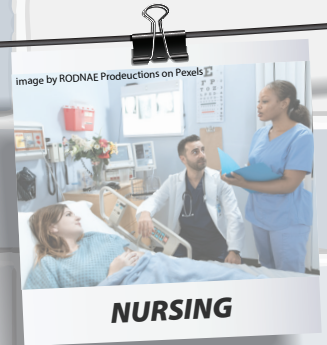




# New Hampshire Job Outlook and Locator

*base year 2020 to projected year 2030*



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*base year 2020 to  
projected year 2030*



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## Introduction to Job Outlook and Locator, 2020 to 2030

The *New Hampshire Job Outlook and Locator* is a resource for job seekers, students, program planners, and career changers. More than 770 occupations are included, with descriptions, estimated and projected employment, projected growth rate, annual average projected job openings, median wages, and entry-level training requirements. In addition, the *Job Outlook and Locator* lists the industries that employed the most workers in each occupation, helping users locate employment opportunities.

- Job seekers may focus their job search in the industries most likely to employ workers in their occupation.
- Employment counselors may use this information to help clients explore new employment possibilities.
- Students may refer to training requirements and projections to plan for a future career.
- Businesses may identify the industries that are competing for workers in occupations they are looking to employ.

### About the Data

Employment data in the Job Locator are based on projections of industry and occupational employment developed by New Hampshire Employment Security's Economic and Labor Market Information Bureau for the base year of 2020 projected to 2030.

Projections are based on historical trends and current knowledge. No assumptions are made about business cycle fluctuations, natural disasters, or other catastrophic events. It is assumed that there will be no major change in technology, productivity, or state or federal government policy.

Employment by industry data, known as staffing patterns, and wage data are obtained from the Bureau's Occupational Employment and Wage Statistics (OEWS) Program. Data are gathered through a semi-annual mail and telephone survey of employers, conducted in cooperation with the US Department of Labor, Bureau of Labor Statistics. The average (mean) hourly wage is provided for most occupations. For occupations that do not have a standard work week, such as teachers or airline pilots, an annual average wage is provided.

## **Entry-Level Education, Work Experience, and Post-Hire Training**

For each occupation, the typical education, related work experience, and post-hire training expected of entry-level workers have been identified. Completion of educational attainment and work experience in a related occupation are usually expected before an individual is employed. Post-hire training refers to on-the-job training, apprenticeship, internship, or residency typically conducted after the individual has entered into employment.

### ***Educational Attainment***

This indicates the typical level of education most workers achieve for an entry-level position:

- Doctoral (PhD) or professional degree (i.e., MD, DD, JD, DC)
- Master's degree (i.e., MA, MS, MEd)
- Bachelor's degree (i.e., BS, BA, BFA)
- Associate's degree (i.e., AS, AA)
- Postsecondary non-degree award (program completion in less than one academic year, i.e., CNA, cosmetologist)
- Some college, no degree (high school diploma or equivalent, plus completion of one or more postsecondary courses that did not result in any degree or award)
- High school diploma or equivalent (GED or HiSET)
- No formal educational credential

### ***Work Experience***

Some occupations require work experience in a related occupation as an entry-level qualification. Frequently, these occupations are managerial or supervisory positions, where the worker performs the same job tasks as the workers under their supervision, such as Retail supervisors or Construction managers. Some non-supervisory workers may also have an experience requirement, such as Restaurant cooks or Industrial truck and tractor operators. Usual work experience requirements may be: less than five years, five years or more, or none.

### ***Post-Hire Training***

This identifies additional training or preparation typically needed to gain competency in the occupation once the worker is employed. This type of training is occupation-specific, not job-specific, meaning skills can be transferred to another job in the same occupation. Job training includes:

- Internship or residency
- Apprenticeship
- Long-term on-the-job training (over 12 months)
- Moderate-term on-the-job training (one to 12 months)
- Short-term on-the-job training (one month or less of informal training)
- None

## Occupational Outlook Indicators

The occupational data starting on page 1 include a symbol that indicates the expected employment prospects for an occupation. The outlook is based on two factors: the projected growth rate and the projected number of openings for the occupation from 2020 to 2030.

- ↑ **Very Favorable.** Occupations that combine a high rate of growth and a large number of annual job openings are described as very favorable. These occupations are expected to provide the best employment opportunities through 2030.
- ↗ **Favorable.** Occupations that have a low rate of growth combined with a very high or high number of job openings are considered favorable. An occupation may also be favorable if the growth rate is better than average but the number of job openings is below average; or the growth rate is average and the number of job openings is average or better.
- ↘ **Less Favorable.** Occupations considered less favorable have better expected opportunities than the least favorable category, because of either a higher growth rate or a larger number of projected job openings.
- ↓ **Not Favorable.** Occupations identified as not favorable have a negative rate of growth and few annual openings per year. These occupations are not expected to be significant sources of jobs through 2030.

### COVID-19 Impact

Long-term projections for 2020-2030 were completed as New Hampshire, as well as the nation, was embroiled in the economic impacts of the COVID-19 pandemic. Upon discussion with the U.S. Bureau of Labor Statistics, it was decided that the best option would be to release the projections data as planned.

Keep in mind employment projections should be used as a general guideline for career outlook and are not intended to be a precise estimate. In general, employment projections make no assumptions about business cycle fluctuations, natural disasters, or other catastrophic events.

Long-term employment projections are intended to capture structural change in the economy. It is possible that the pandemic may cause structural changes, or accelerate or delay ongoing structural changes, but it is too early to determine the full impact of the pandemic.

## How to Use the *Job Outlook and Locator*

Occupations are ordered by the six-digit Standard Occupational code (SOC). Use the Search function (Ctrl-F) to find an occupation by key word, such as *accountant* or *computer*. In addition, the index at the end of the publication lists all occupations in alphabetical order with page numbers.

**SOC Code and Occupational Title:** Six-digit code designed to logically organize occupational data.  
**Occupational Description:** A brief description of the occupation and its duties.

**Job Outlook:** A symbol indicating expected employment prospects for this occupation based on projected growth and openings from 2020 to 2030. See page **iv** for a detailed explanation.

### 31-1131 Nursing Assistants

monitoring health status, feeding, bathing, dressing, grooming, toileting, or ambulation of patients in a health or nursing facility. May administer medication and other health-related tasks. Includes nursing aides and attendants.

#### Entry-Level Education, Experience, & Training:

Postsecondary	none	none
2020 Estimated Employment:	7,743	
2030 Projected Employment:	8,272	
Growth Rate, 2020-2030:	6.8%	
Annual Average Openings:	1,019	
2021 Median Hourly Wage:	\$17.68	

#### Employing Industries

	2020 Share	2030 Share
Nursing/residential care facilities	45.4%	43.5%
Hospitals	26.7%	26.7%
Ambulatory health care services	9.8%	11.0%
Local government	9.5%	9.6%
State government	2.8%	2.7%
Social Assistance	1.9%	2.4%

#### Projections and Wages

- **2020 Estimated Employment:** Number of workers estimated to be employed in 2020.
- **2030 Projected Employment:** Number of workers projected to be employed in 2030.
- **Growth 2020-2030:** Projected percent change in employment, 2020 to 2030.
- **Annual Openings:** Number of projected annual job openings from new job growth, labor force exits, and workers transferring to a different job family.
- **2021 Median Wage:** Average hourly or annual wage for the occupation.

#### Education, Work Experience, and Training:

Typical education, related work experience, and post-hire training expected of entry-level workers.

#### Top Employing Industries:

The industries employing the largest number of workers in the occupation, with the estimated share of workers in the occupation in 2020 and 2030.



**11-1011 Chief Executives**

Determine and formulate policies and provide overall direction of companies or private and public sector organizations within guidelines set up by a board of directors or similar governing body. Plan, direct, or coordinate operational activities at the highest level of management with the help of subordinate executives and staff managers.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   5+ yrs   none</u>		Self-employed workers		23.1%	23.5%
2020 Estimated Employment:	876	Elementary/secondary schools (public/private)		18.0%	17.1%
2030 Projected Employment:	833	Religious/granting/civic/professional orgs		11.5%	11.3%
Growth Rate, 2020-2030:	-4.9%	Crop production		3.7%	3.7%
Annual Average Openings:	53	Management of companies/enterprises		3.7%	3.2%
2021 Median Hourly Wage:	\$73.36	Ambulatory health care services		3.5%	3.7%

**11-1021 General and Operations Managers**

Direct or coordinate operations of public or private organizations, overseeing multiple departments or locations. Duties include formulating policies, managing daily operations, and planning use of materials and human resources, but are too diverse in nature to be classified in one area of management. Usually manage through subordinate supervisors.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   5+ yrs   none</u>		Wholesale trade		8.7%	8.4%
2020 Estimated Employment:	13,173	State government		7.0%	6.4%
2030 Projected Employment:	14,432	Specialty trade contractors		4.7%	4.6%
Growth Rate, 2020-2030:	9.6%	Management of companies/enterprises		3.7%	3.4%
Annual Average Openings:	1,258	Religious/granting/civic/professional orgs		3.0%	3.0%
2021 Median Hourly Wage:	\$47.22	Motor vehicle/parts dealers		3.0%	3.0%

**11-1031 Legislators**

Develop, introduce, or enact laws and statutes at the local, tribal, state, or federal level. Includes only workers in elected positions.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   &lt; 5 yrs   none</u>		Local government		100.0%	100.0%
2020 Estimated Employment:	206				
2030 Projected Employment:	224				
Growth Rate, 2020-2030:	8.7%				
Annual Average Openings:	17				
2021 Median Annual Wage:	\$17,602				

**11-2011 Advertising and Promotions Managers**

Plan, direct, or coordinate advertising policies and programs or produce collateral materials, such as posters, contests, coupons, or giveaways, to create extra interest in the purchase of a product or service for a department, an entire organization, or on an account basis.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   &lt; 5 yrs   none</u>		Advertising/related services		38.6%	38.5%
2020 Estimated Employment:	57	Management/scientific/technical consulting		21.1%	23.1%
2030 Projected Employment:	65	Wholesale trade		10.5%	9.2%
Growth Rate, 2020-2030:	14%	Fabricated metal product manufacturing		n	n
Annual Average Openings:	7	Non-store retailers		n	n
2021 Median Hourly Wage:	\$38.62	Publishing industries		n	n

11-2021 Marketing Managers 

Plan, direct, or coordinate marketing policies and programs. Assess demand for products or services offered by a firm and its competitors, and identify potential customers. Develop pricing strategies to maximize profits or market share, ensuring customer satisfaction. Monitor trends indicating a need for new products or services.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   5+ yrs   none</u>		Management of companies/enterprises		13.8%	12.6%
2020 Estimated Employment:	1,292	Wholesale trade		9.6%	9.2%
2030 Projected Employment:	1,424	Chemical manufacturing		7.0%	8.5%
Growth Rate, 2020-2030:	10.2%	Self-employed workers		5.3%	4.7%
Annual Average Openings:	126	Computer systems design/related services		4.9%	5.3%
2021 Median Hourly Wage:	\$62.00	Publishing industries		4.4%	4.4%

11-2022 Sales Managers 

Plan, direct, or coordinate the distribution or movement of a product or service to the customer. Coordinate sales distribution by establishing sales territories, quotas, and goals and establish training programs for sales representatives. Analyze sales statistics to determine sales potential and inventory requirements and monitor customer preferences.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   &lt; 5 yrs   none</u>		Wholesale trade		25.5%	25.1%
2020 Estimated Employment:	1,722	Management of companies/enterprises		6.3%	5.9%
2030 Projected Employment:	1,850	Computer systems design/related services		5.2%	5.8%
Growth Rate, 2020-2030:	7.4%	Computer/electronic product manufacturing		5.1%	5.1%
Annual Average Openings:	162	Food/beverage stores		4.9%	4.5%
2021 Median Hourly Wage:	\$72.54	Publishing industries		4.2%	4.2%

11-2030 Public Relations and Fundraising Managers 

This occupation includes the 2018 SOC occupations 11-2032 Public Relations Managers and 11-2033 Fundraising Managers and the 2010 SOC occupation 11-2031 Public Relations and Fundraising Managers.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   5+ yrs   none</u>		Colleges/universities/professional schools		40.9%	40.1%
2020 Estimated Employment:	670	Religious/granting/civic/professional orgs		9.9%	10.2%
2030 Projected Employment:	738	Elementary/secondary schools (public/private)		7.8%	7.7%
Growth Rate, 2020-2030:	10.1%	Hospitals		4.6%	4.5%
Annual Average Openings:	65	Management of companies/enterprises		4.3%	3.9%
2021 Median Wage:	n/a	Social Assistance		3.9%	4.3%

11-3010 Administrative Services and Facilities Managers 

This occupation includes the 2018 SOC occupations 11-3012 Administrative Services Managers and 11-3013 Facilities Managers and the 2010 SOC occupation 11-3011 Administrative Services Managers.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   &lt; 5 yrs   none</u>		Local government		8.7%	8.6%
2020 Estimated Employment:	1,027	Elementary/secondary schools (public/private)		7.8%	7.7%
2030 Projected Employment:	1,124	Colleges/universities/professional schools		6.9%	6.8%
Growth Rate, 2020-2030:	9.4%	Hospitals		6.9%	6.8%
Annual Average Openings:	94	Management of companies/enterprises		6.2%	5.7%
2021 Median Wage:	n/a	Office administrative services		4.4%	4.8%

**11-3021 Computer and Information Systems Managers**

Plan, direct, or coordinate activities in such fields as electronic data processing, information systems, systems analysis, and computer programming. Excludes "Computer Occupations" (15-1211 through 15-1299).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   5+ yrs   none</u>		Computer systems design/related services		27.0%	29.0 %
2020 Estimated Employment:	3,040	Financial investment/related activities		7.9%	8.4%
2030 Projected Employment:	3,401	Publishing industries		7.7%	7.7%
Growth Rate, 2020-2030:	11.9%	Insurance carriers/related activities		5.8%	5.7%
Annual Average Openings:	271	Management of companies/enterprises		5.7%	5.1%
<u>2021 Median Hourly Wage:</u>	<u>\$63.25</u>	Colleges/universities/professional schools		5.4%	5.2%

**11-3031 Financial Managers**

Plan, direct, or coordinate accounting, investing, banking, insurance, securities, and other financial activities of a branch, office, or department of an establishment. Excludes "Financial Risk Specialists" (13-2054).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   5+ yrs   none</u>		Credit intermediation/related activities		18.7%	18.1%
2020 Estimated Employment:	3,980	Financial investment/related activities		10.7%	11.7%
2030 Projected Employment:	4,740	Management of companies/enterprises		8.2%	7.6%
Growth Rate, 2020-2030:	19.1%	Insurance carriers/related activities		4.8%	4.7%
Annual Average Openings:	384	Colleges/universities/professional schools		4.5%	4.5%
<u>2021 Median Annual Wage:</u>	<u>\$60.90</u>	Wholesale trade		4.3%	4.2%

**11-3051 Industrial Production Managers**

Plan, direct, or coordinate the work activities and resources necessary for manufacturing products in accordance with cost, quality, and quantity specifications.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   5+ yrs   none</u>		Computer/electronic product manufacturing		32.5%	32.9%
2020 Estimated Employment:	1,070	Fabricated metal product manufacturing		11.1%	11.4%
2030 Projected Employment:	1,146	Machinery manufacturing		7.8%	7.7%
Growth Rate, 2020-2030:	7.1%	Plastics/rubber products manufacturing		6.2%	5.8%
Annual Average Openings:	81	Miscellaneous manufacturing		5.5%	5.7%
<u>2021 Median Hourly Wage:</u>	<u>\$61.24</u>	Electrical equipment/appliance manufacturing		5.1%	5.2%

**11-3061 Purchasing Managers**

Plan, direct, or coordinate the activities of buyers, purchasing officers, and related workers involved in purchasing materials, products, and services. Includes wholesale or retail trade merchandising managers and procurement managers.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   5+ yrs   none</u>		Computer/electronic product manufacturing		26.3%	26.6%
2020 Estimated Employment:	498	Management of companies/enterprises		18.7%	17.5%
2030 Projected Employment:	537	Wholesale trade		6.8%	6.7%
Growth Rate, 2020-2030:	7.8%	Machinery manufacturing		4.4%	4.5%
Annual Average Openings:	43	Electrical equipment/appliance manufacturing		4.0%	3.9%
<u>2021 Median Hourly Wage:</u>	<u>\$61.62</u>	Fabricated metal product manufacturing		3.2%	3.4%

**11-3071 Transportation, Storage, and Distribution Managers**

Plan, direct, or coordinate transportation, storage, or distribution activities in accordance with organizational policies and applicable government laws or regulations. Includes logistics managers.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   5+ yrs   none</u>		Federal government		17.1%	15.5%
2020 Estimated Employment:	566	Wholesale trade		15.7%	15.5%
2030 Projected Employment:	605	Management of companies/enterprises		10.3%	9.6%
Growth Rate, 2020-2030:	6.9%	Computer/electronic product manufacturing		3.7%	3.8%
Annual Average Openings:	47	Non-store retailers		3.7%	4.5%
<u>2021 Median Hourly Wage:</u>	<u>\$53.19</u>	Truck transportation		3.7%	3.8%

**11-3111 Compensation and Benefits Managers**

Plan, direct, or coordinate compensation and benefits activities of an organization. Job analysis and position description managers are included in "Human Resources Managers" (11-3121).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   5+ yrs   none</u>		Accounting/tax/bookkeeping/payroll services		18.9%	20.6%
2020 Estimated Employment:	122	Management of companies/enterprises		11.5%	9.9%
2030 Projected Employment:	131	Self-employed workers		9.0%	8.4%
Growth Rate, 2020-2030:	7.4%	Management/scientific/technical consulting		9.0%	9.9%
Annual Average Openings:	10	Wholesale trade		7.4%	6.9%
<u>2021 Median Hourly Wage:</u>	<u>\$49.67</u>	Colleges/universities/professional schools		7.4%	7.6%

**11-3121 Human Resources Managers**

Plan, direct, or coordinate human resources activities and staff of an organization. Excludes managers who primarily focus on compensation and benefits (11-3111) and training and development (11-3131).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   5+ yrs   none</u>		Management of companies/enterprises		14.1%	13.0%
2020 Estimated Employment:	717	Colleges/universities/professional schools		6.0%	5.9%
2030 Projected Employment:	778	Hospitals		5.3%	5.1%
Growth Rate, 2020-2030:	8.5%	Financial investment/related activities		4.7%	5.1%
Annual Average Openings:	65	Computer/electronic product manufacturing		4.6%	4.6%
<u>2021 Median Hourly Wage:</u>	<u>\$61.14</u>	Wholesale trade		4.2%	4.1%

**11-3131 Training and Development Managers**

Plan, direct, or coordinate the training and development activities and staff of an organization.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   5+ yrs   none</u>		Hospitals		11.2%	10.7%
2020 Estimated Employment:	250	Wholesale trade		9.2%	9.3%
2030 Projected Employment:	270	Colleges/universities/professional schools		8.8%	8.9%
Growth Rate, 2020-2030:	8%	Financial investment/related activities		8.0%	8.9%
Annual Average Openings:	25	Utilities		7.2%	5.2%
<u>2021 Median Hourly Wage:</u>	<u>\$60.56</u>	Management of companies/enterprises		7.2%	6.7%

**11-9013 Farmers, Ranchers, and Other Agricultural Managers**

Plan, direct, or coordinate management or operation of farms, ranches, greenhouses, aquaculture operations, nurseries, timber tracts, or similar establishments. Hire, train, or supervise farm workers or contract for services to carry out daily activities. May perform or supervise planting, cultivating, harvesting, or financial and marketing activities.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   5+ yrs   none</u>	
2020 Estimated Employment:	4,760
2030 Projected Employment:	4,743
Growth Rate, 2020-2030:	-0.4%
Annual Average Openings:	456
2021 Median Wage:	n

**Employing Industries**

	2020 Share	2030 Share
Self-employed workers	77.6%	74.8%
Crop production	14.6%	16.5%
Animal production/aquaculture	7.6%	8.5%

**11-9021 Construction Managers**

Plan, direct, or coordinate, usually through subordinate supervisors, activities for the construction and maintenance of structures, facilities, and systems. Participate in conceptual development of a construction project and oversee scheduling, budgeting, and implementation. Includes managers in specialized fields such as carpentry or plumbing.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   Moderate OJT</u>	
2020 Estimated Employment:	1,689
2030 Projected Employment:	1,923
Growth Rate, 2020-2030:	13.9%
Annual Average Openings:	151
2021 Median Hourly Wage:	\$47.73

**Employing Industries**

	2020 Share	2030 Share
Construction of buildings	34.8%	37.2%
Self-employed workers	33.6%	30.4%
Specialty trade contractors	11.4%	11.8%
Heavy/civil engineering construction	4.6%	4.8%
Local government	3.9%	4.1%
Architectural/engineering/related services	2.9%	3.0%

**11-9031 Education Administrators, Preschool and Daycare**

Plan, direct, or coordinate academic or nonacademic activities of preschools or childcare centers and programs, including before- and after-school care. Excludes "Preschool Teachers, Except Special Education" (25-2011) and "Childcare Workers" (39-9011).

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   &lt; 5 yrs   none</u>	
2020 Estimated Employment:	442
2030 Projected Employment:	497
Growth Rate, 2020-2030:	12.4%
Annual Average Openings:	40
2021 Median Hourly Wage:	\$22.92

**Employing Industries**

	2020 Share	2030 Share
Social Assistance	69.2%	70.4%
Educational support services	10.6%	10.7%
Self-employed workers	7.7%	6.2%
Elementary/secondary schools (public/private)	5.4%	5.2%
Religious/granting/civic/professional orgs	1.4%	1.4%

**11-9032 Education Administrators, Kindergarten through Secondary**

Plan, direct, or coordinate the academic, administrative, or auxiliary activities of kindergarten, elementary, or secondary schools.

**Entry-Level Education, Experience, & Training:**

<u>Master's degree   5+ yrs   none</u>	
2020 Estimated Employment:	1,336
2030 Projected Employment:	1,418
Growth Rate, 2020-2030:	6.1%
Annual Average Openings:	106
2021 Median Annual Wage:	\$97,684

**Employing Industries**

	2020 Share	2030 Share
Elementary/secondary schools (public/private)	97.8%	98.0%
Self-employed workers	1.8%	1.6%

**11-9033 Education Administrators, Postsecondary**

Plan, direct, or coordinate student instruction, administration, and services, as well as other research and educational activities, at postsecondary institutions, including universities, colleges, and junior and community colleges.

**Entry-Level Education, Experience, & Training:**

<u>Master's degree   &lt; 5 yrs   none</u>	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Hourly Wage:	\$45.44

**Employing Industries**

	2020 Share	2030 Share
Colleges/universities/professional schools	n	n
Educational support services	n	n
Junior colleges	n	n
Technical/trade schools	n	n
Self-employed workers	n	n

**11-9039 Education Administrators, All Other**

All education administrators not listed separately.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   &lt; 5 yrs   none</u>	
2020 Estimated Employment:	100
2030 Projected Employment:	124
Growth Rate, 2020-2030:	24%
Annual Average Openings:	10
2021 Median Hourly Wage:	\$28.47

**Employing Industries**

	2020 Share	2030 Share
Other schools/instruction	35.0%	41.9%
Nursing/residential care facilities	28.0%	25.0%
Self-employed workers	5.0%	4.0%
Local government	3.0%	3.2%
Business schools/computer and management training	n	n
Technical/trade schools	n	n

**11-9041 Architectural and Engineering Managers**

Plan, direct, or coordinate activities in such fields as architecture and engineering or research and development in these fields. Excludes "Natural Sciences Managers" (11-9121).

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   5+ yrs   none</u>	
2020 Estimated Employment:	1,461
2030 Projected Employment:	1,569
Growth Rate, 2020-2030:	7.4%
Annual Average Openings:	115
2021 Median Hourly Wage:	\$78.43

**Employing Industries**

	2020 Share	2030 Share
Computer/electronic product manufacturing	38.8%	39.1%
Architectural/engineering/related services	16.0%	15.9%
Machinery manufacturing	6.3%	6.3%
Miscellaneous manufacturing	4.1%	4.1%
Fabricated metal product manufacturing	3.7%	3.8%
Scientific research/development services	3.4%	3.4%

**11-9051 Food Service Managers**

Plan, direct, or coordinate activities of an organization or department that serves food and beverages. Excludes "Chefs and Head Cooks" (35-1011).

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   &lt; 5 yrs   none</u>	
2020 Estimated Employment:	1,327
2030 Projected Employment:	1,537
Growth Rate, 2020-2030:	15.8%
Annual Average Openings:	179
2021 Median Hourly Wage:	\$29.22

**Employing Industries**

	2020 Share	2030 Share
Food services/drinking places	54.6%	59.7%
Self-employed workers	32.9%	28.3%
Elementary/secondary schools (public/private)	2.1%	2.0%
Colleges/universities/professional schools	2.0%	1.8%
Nursing/residential care facilities	1.7%	1.6%
Management of companies/enterprises	1.4%	1.2%

**11-9081 Lodging Managers** 

Plan, direct, or coordinate activities of an organization or department that provides lodging and other accommodations. Excludes "Food Service Managers" (11-9051) in lodging establishments.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   < 5 yrs   none		Accommodation		64.1%	74.7%
2020 Estimated Employment:	320	Self-employed workers		31.3%	20.6%
2030 Projected Employment:	355	Nursing/residential care facilities		1.9%	2.0%
Growth Rate, 2020-2030:	10.9%				
Annual Average Openings:	40				
2021 Median Hourly Wage:	\$28.70				

**11-9111 Medical and Health Services Managers** 

Plan, direct, or coordinate medical and health services in hospitals, clinics, managed care organizations, public health agencies, or similar organizations.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Bachelor's degree   < 5 yrs   none		Ambulatory health care services		35.2%	37.4%
2020 Estimated Employment:	2,082	Hospitals		31.7%	30.8%
2030 Projected Employment:	2,749	Nursing/residential care facilities		11.5%	11.0%
Growth Rate, 2020-2030:	32%	Management of companies/enterprises		7.1%	6.5%
Annual Average Openings:	250	Self-employed workers		3.1%	3.0%
2021 Median Hourly Wage:	\$49.28	Colleges/universities/professional schools		2.5%	2.4%

**11-9121 Natural Sciences Managers** 

Plan, direct, or coordinate activities in such fields as life sciences, physical sciences, mathematics, statistics, and research and development in these fields. Excludes "Computer and Information Systems Managers" (11-3021) and "Architecture and Engineering Managers" (11-9041).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Bachelor's degree   5+ yrs   none		Wholesale trade		23.1%	22.3%
2020 Estimated Employment:	208	Federal government		20.7%	18.8%
2030 Projected Employment:	224	Scientific research/development services		18.8%	19.2%
Growth Rate, 2020-2030:	7.7%	Management/scientific/technical consulting		5.8%	7.1%
Annual Average Openings:	17	Ambulatory health care services		5.3%	5.8%
2021 Median Wage:	n				

**11-9131 Postmasters and Mail Superintendents** 

Plan, direct, or coordinate operational, administrative, management, and support services of a U.S. post office; or coordinate activities of workers engaged in postal and related work in assigned post office.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   < 5 yrs   Moderate OJT		Postal service, federal government		100.0%	100.0%
2020 Estimated Employment:	155				
2030 Projected Employment:	143				
Growth Rate, 2020-2030:	-7.7%				
Annual Average Openings:	10				
2021 Median Hourly Wage:	\$36.03				

**11-9141 Property, Real Estate, and Community Association Managers**

Plan, direct, or coordinate the selling, buying, leasing, or governance activities of commercial, industrial, or residential real estate properties. Includes managers of homeowner and condominium associations, rented or leased housing units, buildings, or land (including rights-of-way).

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   &lt; 5 yrs   none</u>	
2020 Estimated Employment:	975
2030 Projected Employment:	1,020
Growth Rate, 2020-2030:	4.6%
Annual Average Openings:	80
2021 Median Hourly Wage:	\$28.65

**Employing Industries**

	2020 Share	2030 Share
Real estate	44.7%	46.5%
Self-employed workers	34.1%	31.2%
Office administrative services	3.8%	4.3%
Local government	3.3%	3.3%
Management of companies/enterprises	2.4%	2.3%
Religious/granting/civic/professional orgs	2.1%	2.0%

**11-9151 Social and Community Service Managers**

Plan, direct, or coordinate the activities of a social service program or community outreach organization. Oversee the program or organization's budget and policies regarding participant involvement, program requirements, and benefits. Work may involve directing social workers, counselors, or probation officers.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   &lt; 5 yrs   none</u>	
2020 Estimated Employment:	889
2030 Projected Employment:	1,033
Growth Rate, 2020-2030:	16.2%
Annual Average Openings:	95
2021 Median Hourly Wage:	\$29.54

**Employing Industries**

	2020 Share	2030 Share
Social Assistance	38.1%	41.4%
Ambulatory health care services	12.6%	12.9%
Nursing/residential care facilities	10.8%	10.3%
Religious/granting/civic/professional orgs	6.1%	6.1%
Management of companies/enterprises	5.2%	4.5%
Self-employed workers	4.7%	3.0%

**11-9161 Emergency Management Directors**

Plan and direct disaster response or crisis management activities, provide disaster preparedness training, and prepare emergency plans and procedures for natural (e.g., hurricanes, floods, earthquakes), wartime, or technological (e.g., nuclear power plant emergencies or hazardous materials spills) disasters or hostage situations.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   5+ yrs   none</u>	
2020 Estimated Employment:	84
2030 Projected Employment:	88
Growth Rate, 2020-2030:	4.8%
Annual Average Openings:	7
2021 Median Hourly Wage:	\$37.06

**Employing Industries**

	2020 Share	2030 Share
State government	33.3%	31.8%
Local government	23.8%	25.0%
Insurance carriers/related activities	15.5%	15.9%
Colleges/universities/professional schools	7.1%	8.0%
Hospitals	7.1%	8.0%

**11-9171 Funeral Home Managers**

Plan, direct, or coordinate the services or resources of funeral homes. Includes activities such as determining prices for services or merchandise and managing the facilities of funeral homes. Excludes "Morticians, Undertakers, and Funeral Arrangers" (39-4031).

**Entry-Level Education, Experience, & Training:**

<u>Associate's degree's degree   &lt; 5 yrs   none</u>	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Hourly Wage:	\$46.66

**Employing Industries**

	2020 Share	2030 Share
Personal and laundry services	n	n
Self-employed workers	n	n



**11-9198 Personal Service Managers; Entertainment/Recreation Managers, Ex. Gambling; Managers, All Other** 

This occupation includes the 2018 SOC occupations 11-9072 Entertainment and Recreation Managers, Except Gambling; 11-9179 Personal Service Managers, All Other; and 11-9199 Managers, All Other; and the 2010 SOC occupation 11-9199 Managers, All Other.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   &lt; 5 yrs   none</u>		Self-employed workers		12.4%	11.4%
2020 Estimated Employment:	1,334	Federal government		8.1%	7.1%
2030 Projected Employment:	1,489	Food services/drinking places		7.8%	8.7%
Growth Rate, 2020-2030:	11.6%	Accounting/tax/bookkeeping/payroll services		6.5%	6.3%
Annual Average Openings:	118	Wholesale trade		5.8%	5.4%
<u>2021 Median Wage:</u>	<u>n/a</u>	Chemical manufacturing		5.5%	6.5%

**13-1011 Agents and Business Managers of Artists, Performers, and Athletes** 

Represent and promote artists, performers, and athletes in dealings with current or prospective employers. May handle contract negotiation and other business matters for clients.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   &lt; 5 yrs   none</u>		Performing arts/spectator sports/related		n	n
2020 Estimated Employment:	n	Self-employed workers		n	n
2030 Projected Employment:	n				
Growth Rate, 2020-2030:	n				
Annual Average Openings:	n				
<u>2021 Median Hourly Wage:</u>	<u>\$36.27</u>				

**13-1020 Buyers and Purchasing Agents** 

This occupation includes the 2018 and 2010 SOC occupations 13-1021 Buyers and Purchasing Agents, Farm Products; 13-1022 Wholesale and Retail Buyers, Except Farm Products; and 13-1023 Purchasing Agents, Except Wholesale, Retail, and Farm Products.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   Moderate OJT</u>		Computer/electronic product manufacturing		18.3%	18.4%
2020 Estimated Employment:	2,328	Wholesale trade		13.1%	12.9%
2030 Projected Employment:	2,257	Management of companies/enterprises		8.3%	7.7%
Growth Rate, 2020-2030:	-3%	Management/scientific/technical consulting		4.9%	5.9%
Annual Average Openings:	218	Machinery manufacturing		4.9%	4.8%
<u>2021 Median Hourly Wage:</u>	<u>\$30.51</u>	Fabricated metal product manufacturing		3.7%	3.8%

**13-1031 Claims Adjusters, Examiners, and Investigators** 

Review settled claims to determine that payments and settlements are made in accordance with company practices and procedures. Confer with legal counsel on claims requiring litigation. May also settle insurance claims. Excludes "Fire Inspectors and Investigators" (33-2021).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Long OJT</u>		Insurance carriers/related activities		72.8%	73.4%
2020 Estimated Employment:	935	Federal government		13.2%	11.7%
2030 Projected Employment:	916	Office administrative services		5.6%	6.0%
Growth Rate, 2020-2030:	-2%	Self-employed workers		1.7%	1.6%
Annual Average Openings:	68				
<u>2021 Median Hourly Wage:</u>	<u>\$30.51</u>				

**13-1032 Insurance Appraisers, Auto Damage**

Appraise automobile or other vehicle damage to determine repair costs for insurance claim settlement. Prepare insurance forms to indicate repair cost or cost estimates and recommendations. May seek agreement with automotive repair shop on repair costs.

**Entry-Level Education, Experience, & Training:**

Postsecondary   none   Moderate OJT	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Hourly Wage:	\$46.43

**Employing Industries**

	2020 Share	2030 Share
Insurance carriers/related activities	n	n
Other professional/scientific/technical services	n	n
Self-employed workers	n	n

**13-1041 Compliance Officers**

Examine, evaluate, and investigate eligibility for or conformity with laws and regulations governing contract compliance of licenses and permits, and perform other compliance and enforcement inspection and analysis activities not classified elsewhere.

**Entry-Level Education, Experience, & Training:**

Bachelor's degree   none   Moderate OJT	
2020 Estimated Employment:	1,353
2030 Projected Employment:	1,435
Growth Rate, 2020-2030:	6.1%
Annual Average Openings:	116
2021 Median Hourly Wage:	\$41.37

**Employing Industries**

	2020 Share	2030 Share
Federal government	31.3%	28.7%
State government	9.9%	9.4%
Insurance carriers/related activities	7.3%	7.7%
Local government	5.4%	5.6%
Financial investment/related activities	4.9%	5.4%
Office administrative services	4.7%	5.4%

**13-1051 Cost Estimators**

Prepare cost estimates for product manufacturing, construction projects, or services to aid management in bidding on or determining price of product or service. May specialize according to particular service performed or type of product manufactured.

**Entry-Level Education, Experience, & Training:**

Bachelor's degree   none   Moderate OJT	
2020 Estimated Employment:	740
2030 Projected Employment:	767
Growth Rate, 2020-2030:	3.6%
Annual Average Openings:	70
2021 Median Hourly Wage:	\$30.51

**Employing Industries**

	2020 Share	2030 Share
Specialty trade contractors	35.7%	34.9%
Construction of buildings	14.9%	15.1%
Fabricated metal product manufacturing	10.0%	10.2%
Repair and maintenance	9.1%	9.3%
Furniture/home furnishings stores	6.6%	7.0%
Motor vehicle/parts dealers	3.8%	3.9%

**13-1071 Human Resources Specialists**

Recruit, screen, interview, or place individuals within an organization. May perform other activities in multiple human resources areas. Excludes "Compensation, Benefits, and Job Analysis Specialists" (13-1141) and "Training and Development Specialists" (13-1151).

**Entry-Level Education, Experience, & Training:**

Bachelor's degree   none   none	
2020 Estimated Employment:	2,786
2030 Projected Employment:	3,111
Growth Rate, 2020-2030:	11.7%
Annual Average Openings:	308
2021 Median Hourly Wage:	\$29.93

**Employing Industries**

	2020 Share	2030 Share
Employment services	25.9%	26.5%
Management of companies/enterprises	5.4%	4.8%
State government	5.0%	4.4%
Hospitals	3.4%	3.2%
Computer systems design/related services	3.3%	3.5%
Ambulatory health care services	3.0%	3.1%

**13-1075 Labor Relations Specialists**

Resolve disputes between workers and managers, negotiate collective bargaining agreements, or coordinate grievance procedures to handle employee complaints. Excludes equal employment opportunity (EEO) officers, who are included in "Compliance Officers" (13-1041).

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   &lt; 5 yrs   none</u>	
2020 Estimated Employment:	141
2030 Projected Employment:	131
Growth Rate, 2020-2030:	-7.1%
Annual Average Openings:	12
2021 Median Hourly Wage:	\$29.96

**Employing Industries**

	2020 Share	2030 Share
Religious/granting/civic/professional orgs	83.7%	84.0%
Local government	3.6%	3.8%
Self-employed workers	2.1%	1.5%
Computer systems design/related services	n	n
Insurance carriers/related activities	n	n
Postal service, federal government	n	n

**13-1081 Logisticians**

Analyze and coordinate the ongoing logistical functions of a firm or organization. Responsible for the entire life cycle of a product, including acquisition, distribution, internal allocation, delivery, and final disposal of resources. Excludes Transportation, Storage, and Distribution Managers and Project Management Specialists.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	777
2030 Projected Employment:	1,037
Growth Rate, 2020-2030:	33.5%
Annual Average Openings:	104
2021 Median Hourly Wage:	\$37.38

**Employing Industries**

	2020 Share	2030 Share
Management of companies/enterprises	21.8%	20.4%
Wholesale trade	9.8%	9.7%
Management/scientific/technical consulting	3.7%	4.3%
Federal government	3.5%	2.8%
Fabricated metal product manufacturing	3.2%	3.3%

**13-1111 Management Analysts**

Conduct organizational studies and evaluations, design systems and procedures, conduct work simplification and measurement studies, and prepare operations and procedures manuals to assist management in operating more efficiently and effectively. Includes program analysts and management consultants.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   &lt; 5 yrs   none</u>	
2020 Estimated Employment:	3,527
2030 Projected Employment:	3,997
Growth Rate, 2020-2030:	13.3%
Annual Average Openings:	384
2021 Median Hourly Wage:	\$46.75

**Employing Industries**

	2020 Share	2030 Share
Self-employed workers	14.4%	14.3%
Management/scientific/technical consulting	12.7%	14.3%
Insurance carriers/related activities	10.6%	10.3%
Computer systems design/related services	9.7%	10.2%
Accounting/tax/bookkeeping/payroll services	5.2%	4.9%
State government	4.9%	5.3%

**13-1121 Meeting, Convention, and Event Planners**

Coordinate activities of staff, convention personnel, or clients to make arrangements for group meetings, events, or conventions.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	459
2030 Projected Employment:	535
Growth Rate, 2020-2030:	16.6%
Annual Average Openings:	59
2021 Median Hourly Wage:	\$23.27

**Employing Industries**

	2020 Share	2030 Share
Religious/granting/civic/professional orgs	25.5%	23.4%
Colleges/universities/professional schools	13.3%	12.3%
Amusements/gambling/recreation industries	10.2%	11.6%
Publishing industries	5.5%	5.1%
Accommodation	3.9%	4.3%
Self-employed workers	3.3%	3.0%

**13-1131 Fundraisers**

Organize activities to raise funds or otherwise solicit and gather monetary donations or other gifts for an organization. May design and produce promotional materials. May also raise awareness of the organization's work, goals, and financial needs.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>		Religious/granting/civic/professional orgs		29.6%	29.6%
2020 Estimated Employment:	626	Colleges/universities/professional schools		22.4%	20.9%
2030 Projected Employment:	727	Social Assistance		11.7%	12.4%
Growth Rate, 2020-2030:	16.1%	Elementary/secondary schools (public/private)		8.2%	7.8%
Annual Average Openings:	74	Ambulatory health care services		5.6%	5.9%
<u>2021 Median Hourly Wage:</u>	<u>\$29.02</u>	Educational support services		3.0%	3.0%

**13-1141 Compensation, Benefits, and Job Analysis Specialists**

Conduct programs of compensation and benefits and job analysis for employer. May specialize in specific areas, such as position classification and pension programs.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   &lt; 5 yrs   none</u>		Management/scientific/technical consulting		14.1%	16.1%
2020 Estimated Employment:	376	Insurance carriers/related activities		12.8%	13.0%
2030 Projected Employment:	422	Accounting/tax/bookkeeping/payroll services		10.4%	10.0%
Growth Rate, 2020-2030:	12.2%	Financial investment/related activities		9.8%	10.4%
Annual Average Openings:	40	Hospitals		8.5%	8.1%
<u>2021 Median Hourly Wage:</u>	<u>\$30.51</u>	Colleges/universities/professional schools		7.7%	7.4%

**13-1151 Training and Development Specialists**

Design or conduct work-related training and development programs to improve individual skills or organizational performance. May analyze organizational training needs or evaluate training effectiveness.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   &lt; 5 yrs   none</u>		Hospitals		10.4%	10.0%
2020 Estimated Employment:	1,559	Management of companies/enterprises		8.1%	7.4%
2030 Projected Employment:	1,718	Publishing industries		7.4%	7.4%
Growth Rate, 2020-2030:	10.2%	Insurance carriers/related activities		7.1%	7.0%
Annual Average Openings:	165	Ambulatory health care services		5.3%	5.8%
<u>2021 Median Hourly Wage:</u>	<u>\$29.74</u>	Wholesale trade		4.2%	4.1%

**13-1161 Market Research Analysts and Marketing Specialists**

Research local, regional, national, or online market conditions. Gather information to determine potential sales, or plan marketing or advertising campaigns. Gather data on competitors, prices, sales, and distribution methods. Use search marketing, analyze web metrics, or ways to increase search engine ranking and visibility to target markets.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>		Wholesale trade		9.7%	9.1%
2020 Estimated Employment:	2,561	Computer systems design/related services		7.7%	8.3%
2030 Projected Employment:	3,157	Other professional/scientific/technical services		4.7%	5.7%
Growth Rate, 2020-2030:	23.3%	Management/scientific/technical consulting		4.7%	5.2%
Annual Average Openings:	337	Publishing industries		4.5%	4.3%
<u>2021 Median Hourly Wage:</u>	<u>\$30.51</u>	Management of companies/enterprises		4.1%	3.6%

**13-1198 Project Management Specialists and Business Operations Specialists, All Other**

This occupation includes the 2018 SOC occupations 13-1082 Project Management Specialists and 13-1199 Business Operations Specialists, All Other and the 2010 SOC occupation 13-1199 Business Operations Specialists, All Other.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Bachelor's degree   none   none		State government		13.6%	13.0%
2020 Estimated Employment:	5,143	Self-employed workers		13.1%	11.3%
2030 Projected Employment:	5,425	Federal government		8.2%	7.6%
Growth Rate, 2020-2030:	5.5%	Architectural/engineering/related services		5.5%	5.6%
Annual Average Openings:	409	Insurance carriers/related activities		5.3%	5.5%
2021 Median Wage:	n/a	Colleges/universities/professional schools		4.6%	4.6%

**13-2011 Accountants and Auditors**

Examine, analyze, and interpret accounting records to prepare financial statements, give advice, or audit and evaluate statements prepared by others. Install or advise on systems of recording costs or other financial and budgetary data. Excludes "Tax Examiners and Collectors, and Revenue Agents" (13-2081).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Bachelor's degree   none   none		Accounting/tax/bookkeeping/payroll services		17.5%	17.3%
2020 Estimated Employment:	5,748	Management of companies/enterprises		5.8%	5.4%
2030 Projected Employment:	6,244	Wholesale trade		5.4%	5.2%
Growth Rate, 2020-2030:	8.6%	Computer/electronic product manufacturing		5.2%	5.1%
Annual Average Openings:	572	Office administrative services		4.4%	4.8%
2021 Median Hourly Wage:	\$36.67	Self-employed workers		4.3%	3.5%

**13-2020 Property Appraisers and Assessors**

This occupation includes the 2018 SOC occupations 13-2022 Appraisers of Personal and Business Property and 13-2023 Appraisers and Assessors of Real Estate and the 2010 SOC occupation 13-2021 Appraisers and Assessors of Real Estate.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Bachelor's degree   none   Long OJT		Real estate		34.8%	36.0%
2020 Estimated Employment:	405	Self-employed workers		25.2%	22.8%
2030 Projected Employment:	425	Local government		18.0%	18.6%
Growth Rate, 2020-2030:	4.9%	State government		9.1%	8.9%
Annual Average Openings:	33	Management/scientific/technical consulting		4.4%	5.4%
2021 Median Hourly Wage:	\$35.36				

**13-2031 Budget Analysts**

Examine budget estimates for completeness, accuracy, and conformance with procedures and regulations. Analyze budgeting and accounting reports. Excludes "Financial and Investment Analysts" (13-2051).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Bachelor's degree   none   none		Federal government		27.4%	23.2%
2020 Estimated Employment:	62	Colleges/universities/professional schools		14.5%	14.5%
2030 Projected Employment:	69	Architectural/engineering/related services		n	n
Growth Rate, 2020-2030:	11.3%	Hospitals		n	n
Annual Average Openings:	6	Office administrative services		n	n
2021 Median Hourly Wage:	\$36.36	Transit/ground passenger transport		n	n

## 13-2041 Credit Analysts



Analyze credit data and financial statements of individuals or firms to determine the degree of risk involved in extending credit or lending money. Prepare reports with credit information for use in decisionmaking. Excludes "Financial Risk Specialists" (13-2054).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Bachelor's degree   none   none		Management of companies/enterprises		42.1%	40.9%
2020 Estimated Employment:	159	Credit intermediation/related activities		32.7%	32.9%
2030 Projected Employment:	149	Wholesale trade		18.2%	18.8%
Growth Rate, 2020-2030:	-6.3%	Fabricated metal product manufacturing		n	n
Annual Average Openings:	12	Financial investment/related activities		n	n
2021 Median Hourly Wage:	\$37.88	Miscellaneous manufacturing		n	n

## 13-2052 Personal Financial Advisors



Advise clients on financial plans using knowledge of tax and investment strategies, securities, insurance, pension plans, and real estate. Duties include assessing clients' assets, liabilities, cash flow, insurance coverage, tax status, and financial objectives. May also buy and sell financial assets for clients.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Bachelor's degree   none   Long OJT		Financial investment/related activities		59.0%	65.3%
2020 Estimated Employment:	1,206	Self-employed workers		18.2%	12.6%
2030 Projected Employment:	1,350	Credit intermediation/related activities		11.7%	11.4%
Growth Rate, 2020-2030:	11.9%	Insurance carriers/related activities		5.6%	5.6%
Annual Average Openings:	106	Accounting/tax/bookkeeping/payroll services		3.3%	3.1%
2021 Median Hourly Wage:	\$38.92				

## 13-2053 Insurance Underwriters



Review individual applications for insurance to evaluate degree of risk involved and determine acceptance of applications.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Bachelor's degree   none   Moderate OJT		Insurance carriers/related activities		88.9%	88.7%
2020 Estimated Employment:	287	Credit intermediation/related activities		7.0%	6.7%
2030 Projected Employment:	282				
Growth Rate, 2020-2030:	-1.7%				
Annual Average Openings:	21				
2021 Median Hourly Wage:	\$37.38				

## 13-2061 Financial Examiners



Enforce or ensure compliance with laws and regulations governing financial and securities institutions and financial and real estate transactions. May examine, verify, or authenticate records.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Bachelor's degree   none   Long OJT		State government		64.1%	62.3%
2020 Estimated Employment:	145	Federal government		20.7%	19.2%
2030 Projected Employment:	151	Credit intermediation/related activities		n	n
Growth Rate, 2020-2030:	4.1%	Financial investment/related activities		n	n
Annual Average Openings:	12	Management of companies/enterprises		n	n
2021 Median Hourly Wage:	\$42.51	Office administrative services		n	n

**13-2071 Credit Counselors**

Advise and educate individuals or organizations on acquiring and managing debt. May provide guidance in determining the best type of loan and explain loan requirements or restrictions. Help develop debt management plans or student financial aid packages. Advise on credit issues, or provide budget, mortgage, bankruptcy, or student financial aid counseling.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   Moderate OJT</u>		Colleges/universities/professional schools		54.3%	53.3%
2020 Estimated Employment:	464	Hospitals		6.3%	6.0%
2030 Projected Employment:	516	Educational support services		n	n
Growth Rate, 2020-2030:	11.2%	Insurance carriers/related activities		n	n
Annual Average Openings:	42	Other professional/scientific/technical services		n	n
2021 Median Hourly Wage:	\$22.27	Technical/trade schools		n	n

**13-2072 Loan Officers**

Evaluate, authorize, or recommend approval of commercial, real estate, or credit loans. Advise borrowers on financial status and payment methods. Includes mortgage loan officers and agents, collection analysts, loan servicing officers, loan underwriters, and payday loan officers.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   &lt; 5 yrs   Moderate OJT</u>		Credit intermediation/related activities		71.0%	69.6%
2020 Estimated Employment:	1,322	Motor vehicle/parts dealers		10.1%	11.0%
2030 Projected Employment:	1,360	Management of companies/enterprises		10.0%	9.7%
Growth Rate, 2020-2030:	2.9%	Financial investment/related activities		4.4%	5.0%
Annual Average Openings:	106	Self-employed workers		1.9%	2.1%
2021 Median Hourly Wage:	\$36.98	Federal government		1.4%	1.3%

**13-2081 Tax Examiners and Collectors, and Revenue Agents**

Determine tax liability or collect taxes from individuals or business firms according to prescribed laws and regulations.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   Moderate OJT</u>		Local government		65.9%	68.8%
2020 Estimated Employment:	317	State government		19.9%	19.4%
2030 Projected Employment:	330	Federal government		14.2%	11.8%
Growth Rate, 2020-2030:	4.1%				
Annual Average Openings:	28				
2021 Median Hourly Wage:	\$23.22				

**13-2082 Tax Preparers**

Prepare tax returns for individuals or small businesses. Excludes "Accountants and Auditors" (13-2011).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>		Accounting/tax/bookkeeping/payroll services		73.9%	77.1%
2020 Estimated Employment:	390	Self-employed workers		25.1%	22.0%
2030 Projected Employment:	401				
Growth Rate, 2020-2030:	2.8%				
Annual Average Openings:	45				
2021 Median Hourly Wage:	\$23.35				

**13-2098 Financial and Investment Analysts, Financial Risk Specialists, and Financial Specialists, All Other**

This occupation includes the 2018 SOC occupations 13-2051 Financial and Investment Analysts; 13-2054 Financial Risk Specialists; and 13-2099 Financial Specialists, All Other; and the 2010 SOC occupations 13-2051 Financial Analysts and 13-2099 Financial Specialists, All Other.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	1,229
2030 Projected Employment:	1,350
Growth Rate, 2020-2030:	9.8%
Annual Average Openings:	109
2021 Median Wage:	n/a

**Employing Industries**

	2020 Share	2030 Share
Financial investment/related activities	25.9%	27.8%
Management of companies/enterprises	10.3%	9.3%
Credit intermediation/related activities	8.9%	8.4%
Insurance carriers/related activities	8.3%	8.2%
Colleges/universities/professional schools	5.0%	4.9%
Computer systems design/related services	4.9%	5.4%

**15-1211 Computer Systems Analysts**

Analyze science, engineering, business, and data processing problems to develop and implement solutions to complex application problems, system administration issues, or network concerns. Perform management and integration functions, improve systems, and review capabilities, workflow, and schedule limitations. Analyze or recommend commercial software.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	2,943
2030 Projected Employment:	3,207
Growth Rate, 2020-2030:	9%
Annual Average Openings:	237
2021 Median Hourly Wage:	\$48.47

**Employing Industries**

	2020 Share	2030 Share
Computer systems design/related services	33.6%	37.0%
Insurance carriers/related activities	11.0%	10.8%
Management of companies/enterprises	6.4%	5.6%
Financial investment/related activities	5.8%	6.0%
Hospitals	5.5%	5.1%
Colleges/universities/professional schools	4.3%	4.0%

**15-1212 Information Security Analysts**

Plan, implement, upgrade, or monitor security measures for protection of computer networks and information. Assess system vulnerabilities for security risks and propose and implement risk mitigation strategies. Ensure security controls are in place to safeguard digital files and vital infrastructure. May respond to computer security breaches and viruses.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   &lt; 5 yrs   none</u>	
2020 Estimated Employment:	576
2030 Projected Employment:	793
Growth Rate, 2020-2030:	37.7%
Annual Average Openings:	71
2021 Median Hourly Wage:	\$49.08

**Employing Industries**

	2020 Share	2030 Share
Computer systems design/related services	43.9%	47.9%
Insurance carriers/related activities	11.3%	9.5%
Computer/electronic product manufacturing	9.4%	9.0%
Data processing/hosting/related services	6.1%	6.1%
Wholesale trade	3.7%	3.4%
Financial investment/related activities	3.5%	3.5%

**15-1221 Computer and Information Research Scientists**

Conduct research into fundamental computer and information science as theorists, designers, or inventors. Develop solutions to problems in the field of computer hardware and software.

**Entry-Level Education, Experience, & Training:**

<u>Master's degree   none   none</u>	
2020 Estimated Employment:	61
2030 Projected Employment:	77
Growth Rate, 2020-2030:	26.2%
Annual Average Openings:	7
2021 Median Hourly Wage:	\$53.35

**Employing Industries**

	2020 Share	2030 Share
Computer systems design/related services	50.8%	54.6%
Scientific research/development services	13.1%	13.0%
Federal government	11.5%	10.4%
Self-employed workers	3.3%	2.6%
Management of companies/enterprises	n	n
Publishing industries	n	n



15-1231 Computer Network Support Specialists 

Analyze, test, troubleshoot, and evaluate existing network systems, such as local area networks (LAN), wide area networks (WAN), cloud networks, servers, and other data communications networks. Perform maintenance to ensure networks operate correctly with minimal interruption.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Associate's degree's degree   none   none</u>		Computer systems design/related services		44.0%	47.6%
2020 Estimated Employment:	728	Telecommunications		15.8%	12.5%
2030 Projected Employment:	806	Publishing industries		4.7%	4.7%
Growth Rate, 2020-2030:	10.7%	Architectural/engineering/related services		4.5%	4.3%
Annual Average Openings:	63	Insurance carriers/related activities		3.7%	3.6%
2021 Median Hourly Wage:	\$35.70	Office administrative services		3.7%	4.0%

15-1232 Computer User Support Specialists 

Provide technical assistance to computer users. Answer questions or resolve computer problems for clients in person, via telephone, or electronically. May provide assistance concerning the use of computer hardware and software, including printing, installation, word processing, electronic mail, and operating systems.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Some College   none   none</u>		Computer systems design/related services		22.8%	26.4%
2020 Estimated Employment:	2,958	Elementary/secondary schools (public/private)		8.8%	8.2%
2030 Projected Employment:	3,210	Publishing industries		8.7%	8.7%
Growth Rate, 2020-2030:	8.5%	Wholesale trade		8.6%	8.1%
Annual Average Openings:	246	Colleges/universities/professional schools		7.3%	6.9%
2021 Median Hourly Wage:	\$28.43	Hospitals		4.3%	4.0%

15-1241 Computer Network Architects 

Design and implement computer networks, such as local or wide area networks, intranets, extranets, and data communications networks. Perform modeling, analysis, and planning, including analysis of capacity needs for network infrastructures. Design network and computer security measures. Recommend network and communications hardware and software.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   5+ yrs   none</u>		Computer systems design/related services		49.1%	53.8%
2020 Estimated Employment:	462	Management of companies/enterprises		13.0%	11.3%
2030 Projected Employment:	506	Insurance carriers/related activities		12.3%	11.7%
Growth Rate, 2020-2030:	9.5%	Telecommunications		7.8%	5.9%
Annual Average Openings:	33	Publishing industries		n	n
2021 Median Hourly Wage:	\$49.53	Wholesale trade		n	n

15-1244 Network and Computer Systems Administrators 

Install, configure, and maintain local area networks (LAN), wide area networks (WAN), data communication networks, operating systems, and physical and virtual servers. Review logs and verify completion of scheduled jobs and backups. Analyze resource usage and control user access. Install and upgrade software and maintain software licenses.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>		Computer systems design/related services		22.2%	25.2%
2020 Estimated Employment:	2,301	Insurance carriers/related activities		8.3%	8.2%
2030 Projected Employment:	2,434	Telecommunications		6.0%	4.7%
Growth Rate, 2020-2030:	5.8%	Architectural/engineering/related services		5.6%	5.3%
Annual Average Openings:	165	Publishing industries		5.3%	5.3%
2021 Median Hourly Wage:	\$39.22	Hospitals		4.9%	4.7%

15-1245 Database Administrators and Architects 

This occupation includes the 2018 SOC occupations 15-1242 Database Administrators and 15-1243 Database Architects and the 2010 SOC occupation 15-1141 Database Administrators.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Bachelor's degree   none   none		Computer systems design/related services		22.5%	24.8%
2020 Estimated Employment:	597	Self-employed workers		15.4%	13.3%
2030 Projected Employment:	649	State government		12.9%	12.0%
Growth Rate, 2020-2030:	8.7%	Colleges/universities/professional schools		7.0%	6.9%
Annual Average Openings:	50	Insurance carriers/related activities		5.0%	5.1%
2021 Median Wage:	n/a	Management of companies/enterprises		3.9%	3.5%

15-1251 Computer Programmers 

Create, modify, and test the code and scripts that allow computer applications to run. Work from specifications drawn up by software and web developers or other individuals. May develop and write computer programs to store, locate, and retrieve specific documents, data, and information.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Bachelor's degree   none   none		Computer systems design/related services		35.5%	37.6%
2020 Estimated Employment:	1,263	Publishing industries		18.2%	18.1%
2030 Projected Employment:	1,145	Colleges/universities/professional schools		10.9%	10.1%
Growth Rate, 2020-2030:	-9.3%	Insurance carriers/related activities		5.7%	5.5%
Annual Average Openings:	67	Financial investment/related activities		4.5%	4.7%
2021 Median Hourly Wage:	\$37.53	Computer/electronic product manufacturing		3.2%	3.0%

15-1256 Software Developers and Software Quality Assurance Analysts and Testers 

This occupation includes the 2018 SOC occupations 15-1252 Software Developers and 15-1253 Software Quality Assurance Analysts and Testers and the 2010 SOC occupations 15-1132 Software Developers, Applications and 15-1133 Software Developers, Systems Software.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Bachelor's degree   none   none		Computer systems design/related services		29.6%	33.0%
2020 Estimated Employment:	10,430	Self-employed workers		16.9%	12.8%
2030 Projected Employment:	12,916	Computer/electronic product manufacturing		13.3%	13.5%
Growth Rate, 2020-2030:	23.8%	Publishing industries		9.1%	9.6%
Annual Average Openings:	1,092	Insurance carriers/related activities		5.9%	5.7%
2021 Median Wage:	n/a	Financial investment/related activities		4.3%	4.4%

15-1257 Web Developers and Digital Interface Designers 

This occupation includes the 2018 SOC occupations 15-1254 Web Developers and 15-1255 Web and Digital Interface Designers and the 2010 SOC occupation 15-1134 Web Developers.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Bachelor's degree   none   none		Computer systems design/related services		26.6%	28.3%
2020 Estimated Employment:	707	Self-employed workers		16.1%	15.8%
2030 Projected Employment:	798	Colleges/universities/professional schools		6.4%	6.0%
Growth Rate, 2020-2030:	12.9%	Publishing industries		6.2%	6.0%
Annual Average Openings:	64	State government		4.2%	3.9%
2021 Median Wage:	n/a	Other information services		3.0%	2.9%

15-1299 Computer Occupations, All Other 

All computer occupations not listed separately. Excludes Computer and Information Systems Managers, Computer Hardware Engineers, Computer Science Teachers, Postsecondary, Special Effects Artists and Animators, Health Information Technologists and Medical Registrars, and Computer, Automated Teller, and Office Machine Repairers.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>		Computer systems design/related services		47.7%	50.2%
2020 Estimated Employment:	1,347	Self-employed workers		12.8%	10.6%
2030 Projected Employment:	1,505	Federal government		7.6%	8.0%
Growth Rate, 2020-2030:	11.7%	Insurance carriers/related activities		5.0%	4.9%
Annual Average Openings:	119	Data processing/hosting/related services		4.3%	4.2%
2021 Median Hourly Wage:	\$37.41	Publishing industries		4.2%	4.1%

15-2011 Actuaries 

Analyze statistical data, such as mortality, accident, sickness, disability, and retirement rates and construct probability tables to forecast risk and liability for payment of future benefits. May ascertain insurance rates required and cash reserves necessary to ensure payment of future benefits.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   Long OJT</u>		Insurance carriers/related activities		90.2%	89.5%
2020 Estimated Employment:	61	Computer systems design/related services		n	n
2030 Projected Employment:	76	Management of companies/enterprises		n	n
Growth Rate, 2020-2030:	24.6%	Self-employed workers		n	n
Annual Average Openings:	6				
2021 Median Hourly Wage:	\$63.12				

15-2021 Mathematicians 

Conduct research in fundamental mathematics or in application of mathematical techniques to science, management, and other fields. Solve problems in various fields using mathematical methods.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Master's degree   none   none</u>		Colleges/universities/professional schools		n	n
2020 Estimated Employment:	23	Federal government		n	n
2030 Projected Employment:	24				
Growth Rate, 2020-2030:	4.3%				
Annual Average Openings:	1				
2021 Median Wage:	n				

15-2031 Operations Research Analysts 

Formulate and apply mathematical modeling or other methods to develop and interpret data to assist management with decision-making, policy, or managerial functions. Collect and analyze data and develop decision support software, services, or products. Develop optimal time, cost, or logistics networks for program evaluation, review, or implementation.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>		Insurance carriers/related activities		28.5%	28.4%
2020 Estimated Employment:	513	Computer systems design/related services		25.7%	27.5%
2030 Projected Employment:	663	Colleges/universities/professional schools		13.1%	12.4%
Growth Rate, 2020-2030:	29.2%	Management of companies/enterprises		4.1%	3.6%
Annual Average Openings:	54	Wholesale trade		3.7%	3.5%
2021 Median Hourly Wage:	\$37.09	State government		3.1%	2.9%

**15-2041 Statisticians** 

Develop or apply mathematical or statistical theory and methods to collect, organize, interpret, and summarize numerical data to provide usable information. May specialize in fields such as biostatistics, agricultural statistics, business statistics, or economic statistics. Includes mathematical and survey statisticians.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Master's degree   none   none</u>		Insurance carriers/related activities		21.3%	21.9%
2020 Estimated Employment:	75	Colleges/universities/professional schools		21.3%	20.0%
2030 Projected Employment:	105	State government		8.0%	6.7%
Growth Rate, 2020-2030:	40%	Chemical manufacturing		n	n
Annual Average Openings:	9	Computer systems design/related services		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$37.53</u>	Management/scientific/technical consulting		n	n

**15-2098 Data Scientists and Mathematical Science Occupations, All Other** 

This occupation includes the 2018 SOC occupations 15-2051 Data Scientists and 15-2099 Mathematical Science Occupations, All Other as well as the 2010 SOC occupations 15-2091 Mathematical Technicians and 15-2099 Mathematical Science Occupations, All Other.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>		Computer systems design/related services		24.3%	26.6%
2020 Estimated Employment:	140	Elementary/secondary schools (public/private)		n	n
2030 Projected Employment:	184	Financial investment/related activities		n	n
Growth Rate, 2020-2030:	31.4%	Insurance carriers/related activities		n	n
Annual Average Openings:	15	Management of companies/enterprises		n	n
<u>2021 Median Wage:</u>	<u>n/a</u>	Wholesale trade		n	n

**17-1011 Architects, Except Landscape and Naval** 

Plan and design structures, such as private residences, office buildings, theaters, factories, and other structural property. Excludes "Landscape Architects" (17-1012) and "Marine Engineers and Naval Architects" (17-2121).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   Intern/Residency</u>		Architectural/engineering/related services		56.9%	62.5%
2020 Estimated Employment:	218	Self-employed workers		15.1%	10.8%
2030 Projected Employment:	232	Construction of buildings		10.1%	10.3%
Growth Rate, 2020-2030:	6.4%	Specialty trade contractors		4.1%	4.3%
Annual Average Openings:	17	Postal service, federal government		2.8%	2.2%
<u>2021 Median Hourly Wage:</u>	<u>\$37.61</u>	Real estate		2.8%	2.6%

**17-1012 Landscape Architects** 

Plan and design land areas for projects such as parks and other recreational facilities, airports, highways, hospitals, schools, land subdivisions, and commercial, industrial, and residential sites.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   Intern/Residency</u>		Architectural/engineering/related services		72.0%	76.0%
2020 Estimated Employment:	25	Federal government		n	n
2030 Projected Employment:	25	Local government		n	n
Growth Rate, 2020-2030:	0%	Self-employed workers		n	n
Annual Average Openings:	2				
<u>2021 Median Hourly Wage:</u>	<u>\$29.70</u>				

17-1021 Cartographers and Photogrammetrists 

Research and create digital or graphic maps or spatial data for legal, social, political, or educational purposes. Work with geographic information systems (GIS). Design or evaluate GIS and mapping algorithms, data structures, and user interfaces. Collect, analyze, and interpret geographic data from geodetic surveys, aerial photos, or satellites.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>		Architectural/engineering/related services		45.1%	43.8%
2020 Estimated Employment:	113	Management/scientific/technical consulting		16.8%	18.8%
2030 Projected Employment:	128	State government		9.7%	8.6%
Growth Rate, 2020-2030:	13.3%	Office administrative services		8.9%	9.4%
Annual Average Openings:	12	Local government		8.9%	8.6%
<u>2021 Median Hourly Wage:</u>	<u>\$28.90</u>	Museums/historical sites/similar institutions		n	n

17-1022 Surveyors 

Make exact measurements and determine property boundaries. Provide data relevant to the shape, contour, gravitation, location, elevation, or dimension of land or land features on or near the earth's surface for engineering, mapmaking, mining, land evaluation, construction, and other purposes.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   Intern/Residency</u>		Architectural/engineering/related services		83.9%	84.6%
2020 Estimated Employment:	260	Self-employed workers		4.2%	2.9%
2030 Projected Employment:	280	Heavy/civil engineering construction		n	n
Growth Rate, 2020-2030:	7.7%	Local government		n	n
Annual Average Openings:	24	Management/scientific/technical consulting		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$31.59</u>	State government		n	n

17-2011 Aerospace Engineers 

Perform engineering duties in designing, constructing, and testing aircraft, missiles, and spacecraft. May conduct basic and applied research to evaluate adaptability of materials and equipment to aircraft design and manufacture. May recommend improvements in testing equipment and techniques.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>		Computer/electronic product manufacturing		n	n
2020 Estimated Employment:	n	Fabricated metal product manufacturing		n	n
2030 Projected Employment:	n	Federal government		n	n
Growth Rate, 2020-2030:	n	Scientific research/development services		n	n
Annual Average Openings:	n	Transportation equipment manufacturing		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$50.93</u>				

17-2031 Bioengineers and Biomedical Engineers 

Apply knowledge of engineering, biology, chemistry, computer science, and biomechanical principles to the design, development, and evaluation of biological, agricultural, and health systems and products, such as artificial organs, prostheses, instrumentation, medical information systems, and health management and care delivery systems.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>		Computer/electronic product manufacturing		n	n
2020 Estimated Employment:	n	Employment services		n	n
2030 Projected Employment:	n	Federal government		n	n
Growth Rate, 2020-2030:	n	Miscellaneous manufacturing		n	n
Annual Average Openings:	n	Plastics/rubber products manufacturing		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$62.05</u>	Wholesale trade		n	n

17-2041 Chemical Engineers 

Design chemical plant equipment and devise processes for manufacturing chemicals and products, such as gasoline, synthetic rubber, plastics, detergents, cement, paper, and pulp, by applying principles and technology of chemistry, physics, and engineering.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
Bachelor's degree   none   none		Architectural/engineering/related services	n	n
2020 Estimated Employment:	98	Computer/electronic product manufacturing	n	n
2030 Projected Employment:	102	Electrical equipment/appliance manufacturing	n	n
Growth Rate, 2020-2030:	4.1%	Plastics/rubber products manufacturing	n	n
Annual Average Openings:	6	Scientific research/development services	n	n
2021 Median Hourly Wage:	\$37.74	Transportation equipment manufacturing	n	n

17-2051 Civil Engineers 

Perform engineering duties in planning, designing, and overseeing construction and maintenance of building structures and facilities, such as roads, railroads, airports, bridges, harbors, channels, dams, irrigation projects, pipelines, power plants, and water and sewage systems. Includes architectural, structural, traffic, and geotechnical engineers.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
Bachelor's degree   none   none		Architectural/engineering/related services	65.7%	67.6%
2020 Estimated Employment:	1,418	State government	19.6%	18.2%
2030 Projected Employment:	1,612	Federal government	2.6%	2.4%
Growth Rate, 2020-2030:	13.7%	Local government	2.5%	2.5%
Annual Average Openings:	125	Construction of buildings	2.0%	1.9%
2021 Median Hourly Wage:	\$38.19			

17-2061 Computer Hardware Engineers 

Research, design, develop, or test computer or computer-related equipment for commercial, industrial, military, or scientific use. May supervise the manufacturing and installation of computer or computer-related equipment and components. Excludes "Software Developers" (15-1252) and "Web Developers" (15-1254).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
Bachelor's degree   none   none		Computer/electronic product manufacturing	36.6%	37.8%
2020 Estimated Employment:	194	Computer systems design/related services	21.7%	20.1%
2030 Projected Employment:	204	Architectural/engineering/related services	15.5%	15.7%
Growth Rate, 2020-2030:	5.2%	Publishing industries	n	n
Annual Average Openings:	14	Scientific research/development services	n	n
2021 Median Hourly Wage:	\$62.15	Wholesale trade	n	n

17-2071 Electrical Engineers 

Research, design, develop, test, or supervise the manufacturing and installation of electrical equipment, components, or systems for commercial, industrial, military, or scientific use. Excludes "Computer Hardware Engineers" (17-2061).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
Bachelor's degree   none   none		Computer/electronic product manufacturing	66.0%	66.1%
2020 Estimated Employment:	1,802	Architectural/engineering/related services	7.2%	7.4%
2030 Projected Employment:	2,028	Machinery manufacturing	4.8%	4.5%
Growth Rate, 2020-2030:	12.5%	Wholesale trade	4.2%	4.0%
Annual Average Openings:	146	Electrical equipment/appliance manufacturing	3.5%	3.9%
2021 Median Hourly Wage:	\$52.14	Scientific research/development services	1.8%	1.8%

**17-2072 Electronics Engineers, Except Computer**

Research, design, develop, or test electronic components and systems for commercial, industrial, military, or scientific use, using knowledge of electronic theory and materials properties. Design electronic circuits and components for use in fields such as telecommunications, aerospace guidance and propulsion, acoustics, or instruments and controls.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	380
2030 Projected Employment:	432
Growth Rate, 2020-2030:	13.7%
Annual Average Openings:	31
<u>2021 Median Hourly Wage:</u>	<u>\$47.76</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Computer/electronic product manufacturing	62.1%	63.9%
Telecommunications	9.0%	8.8%
Architectural/engineering/related services	8.4%	7.9%
Electrical equipment/appliance manufacturing	n	n
Scientific research/development services	n	n
<u>Wholesale trade</u>	<u>n</u>	<u>n</u>

**17-2081 Environmental Engineers**

Research, design, plan, or perform engineering duties in the prevention, control, and remediation of environmental hazards using various engineering disciplines. Work may include waste treatment, site remediation, or pollution control technology.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	245
2030 Projected Employment:	257
Growth Rate, 2020-2030:	4.9%
Annual Average Openings:	19
<u>2021 Median Hourly Wage:</u>	<u>\$48.22</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Architectural/engineering/related services	68.6%	66.5%
Management/scientific/technical consulting	13.9%	16.0%
State government	6.5%	6.2%
Local government	4.1%	4.3%
Self-employed workers	2.0%	1.6%

**17-2111 Health and Safety Engineers, Except Mining Safety Engineers and Inspectors**

Promote worksite or product safety by applying knowledge of industrial processes, mechanics, chemistry, psychology, and industrial health and safety laws. Includes industrial product safety engineers.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	52
2030 Projected Employment:	56
Growth Rate, 2020-2030:	7.7%
Annual Average Openings:	3
<u>2021 Median Hourly Wage:</u>	<u>\$61.11</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Beverage/tobacco product manufacturing	23.1%	23.2%
Computer/electronic product manufacturing	21.2%	21.4%
Machinery manufacturing	n	n
Miscellaneous manufacturing	n	n
Specialty trade contractors	n	n
<u>Utilities</u>	<u>n</u>	<u>n</u>

**17-2112 Industrial Engineers**

Design, develop, test, and evaluate integrated systems for managing industrial production processes, including human work factors, quality control, inventory control, logistics and material flow, cost analysis, and production coordination. Excludes "Health and Safety Engineers, Except Mining Safety Engineers and Inspectors" (17-2111).

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	1,887
2030 Projected Employment:	2,206
Growth Rate, 2020-2030:	16.9%
Annual Average Openings:	159
<u>2021 Median Hourly Wage:</u>	<u>\$46.83</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Computer/electronic product manufacturing	35.3%	36.0%
Machinery manufacturing	10.9%	11.7%
Fabricated metal product manufacturing	10.8%	10.5%
Electrical equipment/appliance manufacturing	6.5%	6.7%
Miscellaneous manufacturing	5.9%	5.9%
<u>Plastics/rubber products manufacturing</u>	<u>5.0%</u>	<u>4.3%</u>

**17-2121 Marine Engineers and Naval Architects**

Design, develop, and evaluate the operation of marine vessels, ship machinery, and related equipment, such as power supply and propulsion systems.

**Entry-Level Education, Experience, & Training:**

Bachelor's degree   none   none	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Wage:	n/a

**Employing Industries**

	2020 Share	2030 Share
Heavy/civil engineering construction	n	n

**17-2131 Materials Engineers**

Evaluate materials and develop machinery or processes to manufacture materials for products meeting specialized design and performance specifications. Develop new uses for materials. Work with composites or specialize in one type, such as graphite, metals, alloys, ceramics, glass, plastics, polymers, or natural materials.

**Entry-Level Education, Experience, & Training:**

Bachelor's degree   none   none	
2020 Estimated Employment:	71
2030 Projected Employment:	76
Growth Rate, 2020-2030:	7%
Annual Average Openings:	5
2021 Median Hourly Wage:	\$46.10

**Employing Industries**

	2020 Share	2030 Share
Architectural/engineering/related services	n	n
Computer/electronic product manufacturing	n	n
Electrical equipment/appliance manufacturing	n	n
Miscellaneous manufacturing	n	n
Textile mills	n	n
Wholesale trade	n	n

**17-2141 Mechanical Engineers**

Perform engineering duties in planning and designing tools, engines, machines, and other mechanically functioning equipment. Oversee installation, operation, maintenance, and repair of equipment such as centralized heat, gas, water, and steam systems.

**Entry-Level Education, Experience, & Training:**

Bachelor's degree   none   none	
2020 Estimated Employment:	2,532
2030 Projected Employment:	2,756
Growth Rate, 2020-2030:	8.8%
Annual Average Openings:	176
2021 Median Hourly Wage:	\$46.83

**Employing Industries**

	2020 Share	2030 Share
Computer/electronic product manufacturing	23.3%	23.3%
Scientific research/development services	15.5%	15.6%
Architectural/engineering/related services	13.7%	13.5%
Fabricated metal product manufacturing	10.9%	11.1%
Machinery manufacturing	10.8%	11.3%
Miscellaneous manufacturing	4.9%	5.0%

**17-2151 Mining and Geological Engineers, Including Mining Safety Engineers**

Conduct subsurface surveys to identify characteristics of potential land or mining development sites. Specify ground support systems, processes, or equipment for safe, economical, and environmentally sound extraction or underground construction. Inspect areas for unsafe geological conditions, equipment, and working conditions. May design and implement safety programs.

**Entry-Level Education, Experience, & Training:**

Bachelor's degree   none   none	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Wage:	n

**Employing Industries**

	2020 Share	2030 Share
Architectural/engineering/related services	n	n



**17-2161 Nuclear Engineers**

Conduct research on nuclear engineering projects or apply principles and theory of nuclear science to problems concerned with release, control, and use of nuclear energy and nuclear waste disposal.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Bachelor's degree   none   none		Employment services		n	n
2020 Estimated Employment:	n	Federal government		n	n
2030 Projected Employment:	n	Management/scientific/technical consulting		n	n
Growth Rate, 2020-2030:	n	Self-employed workers		n	n
Annual Average Openings:	n	Utilities		n	n
2021 Median Hourly Wage:	\$61.55				

**17-2199 Engineers, All Other**

All engineers not listed separately. Excludes "Sales Engineers" (41-9031), "Locomotive Engineers" (53-4011), and "Ship Engineers" (53-5031).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Bachelor's degree   none   none		Computer/electronic product manufacturing		16.5%	17.4%
2020 Estimated Employment:	334	Federal government		15.0%	14.0%
2030 Projected Employment:	344	Machinery manufacturing		12.6%	13.4%
Growth Rate, 2020-2030:	3%	Electrical equipment/appliance manufacturing		12.3%	12.8%
Annual Average Openings:	22	Architectural/engineering/related services		10.8%	11.3%
2021 Median Hourly Wage:	\$44.24	Miscellaneous manufacturing		5.7%	5.8%

**17-3011 Architectural and Civil Drafters**

Prepare detailed drawings of architectural and structural features of buildings or drawings and topographical relief maps used in civil engineering projects, such as highways, bridges, and public works. Use knowledge of building materials, engineering practices, and mathematics to complete drawings.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Associate's degree's degree   none   none		Architectural/engineering/related services		62.5%	62.4%
2020 Estimated Employment:	558	Wood product manufacturing		7.5%	6.8%
2030 Projected Employment:	575	Construction of buildings		n	n
Growth Rate, 2020-2030:	3%	Furniture/related product manufacturing		n	n
Annual Average Openings:	55	Plastics/rubber products manufacturing		n	n
2021 Median Hourly Wage:	\$28.95	Specialty trade contractors		n	n

**17-3012 Electrical and Electronics Drafters**

Prepare wiring diagrams, circuit board assembly diagrams, and layout drawings used for the manufacture, installation, or repair of electrical equipment.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Associate's degree's degree   none   none		Architectural/engineering/related services		n	n
2020 Estimated Employment:	115	Computer/electronic product manufacturing		n	n
2030 Projected Employment:	126	Electrical equipment/appliance manufacturing		n	n
Growth Rate, 2020-2030:	9.6%	Other professional/scientific/technical services		n	n
Annual Average Openings:	13	Specialty trade contractors		n	n
2021 Median Hourly Wage:	\$30.53				

**17-3013 Mechanical Drafters**

Prepare detailed working diagrams of machinery and mechanical devices, including dimensions, fastening methods, and other engineering information.

**Entry-Level Education, Experience, & Training:**

Associate's degree's degree	none	none
2020 Estimated Employment:	316	
2030 Projected Employment:	306	
Growth Rate, 2020-2030:	-3.2%	
Annual Average Openings:	29	
2021 Median Hourly Wage:	\$29.68	

**Employing Industries**

	2020 Share	2030 Share
Architectural/engineering/related services	21.5%	21.2%
Computer/electronic product manufacturing	16.5%	16.7%
Fabricated metal product manufacturing	15.2%	15.7%
Machinery manufacturing	9.8%	9.5%
Specialty trade contractors	8.2%	8.2%
Scientific research/development services	6.0%	6.2%

**17-3019 Drafters, All Other**

All drafters not listed separately.

**Entry-Level Education, Experience, & Training:**

Associate's degree's degree	none	none
2020 Estimated Employment:	n	
2030 Projected Employment:	n	
Growth Rate, 2020-2030:	n	
Annual Average Openings:	n	
2021 Median Hourly Wage:	\$25.60	

**Employing Industries**

	2020 Share	2030 Share
Architectural/engineering/related services	n	n
Apparel manufacturing	n	n
Fabricated metal product manufacturing	n	n
Self-employed workers	n	n
Specialty trade contractors	n	n
State government	n	n

**17-3022 Civil Engineering Technologists and Technicians**

Apply theory and principles of civil engineering in planning, designing, and overseeing construction and maintenance of structures and facilities under the direction of engineering staff or physical scientists.

**Entry-Level Education, Experience, & Training:**

Associate's degree	none	none
2020 Estimated Employment:	n	
2030 Projected Employment:	n	
Growth Rate, 2020-2030:	n	
Annual Average Openings:	n	
2021 Median Hourly Wage:	\$28.52	

**Employing Industries**

	2020 Share	2030 Share
Architectural/engineering/related services	n	n
Construction of buildings	n	n
Heavy/civil engineering construction	n	n
Local government	n	n
Management/scientific/technical consulting	n	n

**17-3023 Electrical and Electronic Engineering Technologists and Technicians**

Apply electrical and electronic theory and related knowledge, usually under the direction of engineering staff, to design, build, repair, adjust, and modify electrical components, circuitry, controls, and machinery for subsequent evaluation and use by engineering staff in making engineering design decisions.

**Entry-Level Education, Experience, & Training:**

Associate's degree	none	none
2020 Estimated Employment:	727	
2030 Projected Employment:	734	
Growth Rate, 2020-2030:	1%	
Annual Average Openings:	68	
2021 Median Hourly Wage:	\$30.01	

**Employing Industries**

	2020 Share	2030 Share
Computer/electronic product manufacturing	55.4%	53.3%
Electrical equipment/appliance manufacturing	7.7%	8.2%
Architectural/engineering/related services	7.4%	7.9%
Scientific research/development services	5.1%	5.6%
Machinery manufacturing	n	n
Postal service, federal government	n	n

**17-3024 Electro-Mechanical and Mechatronics Technologists and Technicians**

Operate, test, maintain, or adjust unmanned, automated, servomechanical, or electromechanical equipment. Operate unmanned submarines, aircraft, or other equipment to observe or record visual information at sites such as oil rigs, crop fields, or buildings, for deep ocean exploration, or for hazardous waste removal. May help test or design equipment.

**Entry-Level Education, Experience, & Training:**

Associate's degree   none   none	
2020 Estimated Employment:	122
2030 Projected Employment:	123
Growth Rate, 2020-2030:	0.8%
Annual Average Openings:	12
2021 Median Hourly Wage:	\$30.92

**Employing Industries**

	2020 Share	2030 Share
Machinery manufacturing	43.4%	43.1%
Computer/electronic product manufacturing	40.2%	40.7%
Architectural/engineering/related services	n	n
Electrical equipment/appliance manufacturing	n	n
Fabricated metal product manufacturing	n	n
Heavy/civil engineering construction	n	n

**17-3025 Environmental Engineering Technologists and Technicians**

Apply theory and principles of environmental engineering to modify, test, and operate equipment and devices used in preventing, controlling, or remediating environmental problems, including waste treatment and site remediation, under the direction of engineers or scientists. May assist in developing environmental remediation devices.

**Entry-Level Education, Experience, & Training:**

Associate's degree   none   none	
2020 Estimated Employment:	34
2030 Projected Employment:	40
Growth Rate, 2020-2030:	17.6%
Annual Average Openings:	4
2021 Median Hourly Wage:	\$29.13

**Employing Industries**

	2020 Share	2030 Share
Architectural/engineering/related services	n	n
Computer/electronic product manufacturing	n	n
Management/scientific/technical consulting	n	n
Waste management/remediation services	n	n

**17-3026 Industrial Engineering Technologists and Technicians**

Apply engineering theory and principles to problems of industrial layout or manufacturing production, usually under the direction of engineering staff. May perform time and motion studies on worker operations in a variety of industries for purposes such as establishing standard production rates or improving efficiency.

**Entry-Level Education, Experience, & Training:**

Associate's degree   none   none	
2020 Estimated Employment:	563
2030 Projected Employment:	605
Growth Rate, 2020-2030:	7.5%
Annual Average Openings:	58
2021 Median Hourly Wage:	\$28.95

**Employing Industries**

	2020 Share	2030 Share
Computer/electronic product manufacturing	29.3%	29.3%
Fabricated metal product manufacturing	15.8%	16.2%
Machinery manufacturing	15.8%	15.7%
Miscellaneous manufacturing	5.9%	6.0%
Plastics/rubber products manufacturing	4.8%	4.6%
Transportation equipment manufacturing	4.3%	4.1%

**17-3027 Mechanical Engineering Technologists and Technicians**

Apply theory and principles of mechanical engineering to modify, develop, test, or adjust machinery and equipment under direction of engineering staff or physical scientists.

**Entry-Level Education, Experience, & Training:**

Associate's degree   none   none	
2020 Estimated Employment:	713
2030 Projected Employment:	771
Growth Rate, 2020-2030:	8.1%
Annual Average Openings:	74
2021 Median Hourly Wage:	\$29.13

**Employing Industries**

	2020 Share	2030 Share
Computer/electronic product manufacturing	21.3%	21.5%
Architectural/engineering/related services	17.1%	17.1%
Machinery manufacturing	10.7%	10.5%
Plastics/rubber products manufacturing	7.6%	7.0%
Fabricated metal product manufacturing	7.0%	7.3%

**17-3031 Surveying and Mapping Technicians**

Perform surveying and mapping, under direction of engineers, surveyors, or cartographers, obtaining data for construction, mapping, boundaries, or other purposes. Calculate mapping data and create maps from survey notes, aerial photos, satellite data, or other maps to show topography, boundaries, or features. Verify map accuracy and completeness.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>		Architectural/engineering/related services		75.8%	77.4%
2020 Estimated Employment:	281	State government		9.6%	9.0%
2030 Projected Employment:	301	Local government		7.1%	7.0%
Growth Rate, 2020-2030:	7.1%	Self-employed workers		2.1%	1.3%
Annual Average Openings:	37	Management/scientific/technical consulting		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$23.33</u>	Utilities		n	n

**17-3098 Calibration and Engineering Technologists and Technicians, Except Drafters, All Other**

This occupation includes the 2018 SOC occupations 17-3028 Calibration Technologists and Technicians and 17-3029 Engineering Technologists and Technicians, Except Drafters, All Other; and the 2010 SOC occupation 17-3029 Engineering Technicians, Except Drafters, All Other.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Associate's degree   none   none</u>		State government		32.4%	31.4%
2020 Estimated Employment:	392	Computer/electronic product manufacturing		12.0%	12.5%
2030 Projected Employment:	408	Federal government		6.6%	6.1%
Growth Rate, 2020-2030:	4.1%	Machinery manufacturing		6.1%	6.4%
Annual Average Openings:	39	Colleges/universities/professional schools		n	n
<u>2021 Median Wage:</u>	<u>n/a</u>	Miscellaneous manufacturing		n	n

**19-1011 Animal Scientists**

Conduct research in the genetics, nutrition, reproduction, growth, and development of domestic farm animals.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>		Animal production/aquaculture		n	n
2020 Estimated Employment:	n	Chemical manufacturing		n	n
2030 Projected Employment:	n	Self-employed workers		n	n
Growth Rate, 2020-2030:	n				
Annual Average Openings:	n				
<u>2021 Median Wage:</u>	<u>n/a</u>				

**19-1012 Food Scientists and Technologists**

Use chemistry, microbiology, engineering, or other sciences to study food processing and deterioration; analyze food for vitamins, fat, sugar, and protein; research new food sources or ways to make foods safe, palatable, and healthy; and apply food science knowledge to determine best ways to process, package, preserve, store, and distribute food.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>		Chemical manufacturing		n	n
2020 Estimated Employment:	n	Crop production		n	n
2030 Projected Employment:	n	Food manufacturing		n	n
Growth Rate, 2020-2030:	n	Non-store retailers		n	n
Annual Average Openings:	n	Self-employed workers		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$45.86</u>				

**19-1013 Soil and Plant Scientists**

Research breeding, physiology, production, yield, and management of crops and agricultural plants; trees, shrubs, and nursery stock; growth in soils; and control of pests. Study the chemical, physical, biological, and mineral composition of soils for plant or crop growth. May classify and map soils or research alternative practices for crop productivity.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>		Architectural/engineering/related services		n	n
2020 Estimated Employment:	n	Crop production		n	n
2030 Projected Employment:	n	Elementary/secondary schools (public/private)		n	n
Growth Rate, 2020-2030:	n	Federal government		n	n
Annual Average Openings:	n	Self-employed workers		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$38.53</u>	State government		n	n

**19-1021 Biochemists and Biophysicists**

Study the chemical or physical aspects of living cells and organisms, electrical and mechanical energy, and other phenomena. Research complex chemical combinations and reactions in metabolism, reproduction, growth, and heredity. Study the effects of foods, drugs, serums, hormones, and other substances on tissues and vital processes of organisms.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Doctorate/Professional   none   none</u>		Scientific research/development services		69.7%	68.7%
2020 Estimated Employment:	89	Self-employed workers		4.5%	4.0%
2030 Projected Employment:	99	Ambulatory health care services		n	n
Growth Rate, 2020-2030:	11.2%	Chemical manufacturing		n	n
Annual Average Openings:	10	Colleges/universities/professional schools		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$46.92</u>	Hospitals		n	n

**19-1022 Microbiologists**

Investigate the growth, structure, development, and other characteristics of microscopic organisms, such as bacteria, algae, or fungi. Includes medical microbiologists who study the relationship between organisms and disease or the effects of antibiotics on microorganisms.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>		State government		29.4%	28.0%
2020 Estimated Employment:	160	Self-employed workers		3.8%	3.0%
2030 Projected Employment:	168	Colleges/universities/professional schools		n	n
Growth Rate, 2020-2030:	5%	Food manufacturing		n	n
Annual Average Openings:	16	Hospitals		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$31.01</u>	Scientific research/development services		n	n

**19-1023 Zoologists and Wildlife Biologists**

Study the origins, behavior, diseases, genetics, and life processes of animals and wildlife. May specialize in wildlife research and management. May collect and analyze biological data to determine the environmental effects of present and potential use of land and water habitats.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>		State government		58.1%	58.0%
2020 Estimated Employment:	86	Federal government		19.8%	18.2%
2030 Projected Employment:	88	Self-employed workers		1.2%	1.1%
Growth Rate, 2020-2030:	2.3%	Museums/historical sites/similar institutions		n	n
Annual Average Openings:	7	Religious/granting/civic/professional orgs		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$32.40</u>	Scientific research/development services		n	n

## 19-1029 Biological Scientists, All Other



All biological scientists not listed separately.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	141
2030 Projected Employment:	154
Growth Rate, 2020-2030:	9.2%
Annual Average Openings:	13
<u>2021 Median Hourly Wage:</u>	<u>\$37.89</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Federal government	44.7%	39.6%
Chemical manufacturing	23.4%	28.6%
Scientific research/development services	20.6%	20.8%
Self-employed workers	2.8%	2.0%
Ambulatory health care services	n	n
<u>Colleges/universities/professional schools</u>	<u>n</u>	<u>n</u>

## 19-1031 Conservation Scientists



Manage and protect natural resources to maximize use without environmental damage. Conduct soil surveys and develop plans to eliminate soil erosion or protect land. Consult farmers or ranchers on crop rotation, contour plowing, or terracing to conserve soil and water; number and type of livestock; forage plants; fencing; or reservoirs to water stock.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	89
2030 Projected Employment:	96
Growth Rate, 2020-2030:	7.9%
Annual Average Openings:	10
<u>2021 Median Hourly Wage:</u>	<u>\$35.64</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Federal government	41.6%	37.5%
Religious/granting/civic/professional orgs	36.0%	40.6%
Self-employed workers	6.7%	6.3%
Local government	5.6%	5.2%
Architectural/engineering/related services	n	n
<u>State government</u>	<u>n</u>	<u>n</u>

## 19-1032 Foresters



Manage forested land for economic, recreation, or conservation purposes. Inventory type, amount, and location of standing timber, appraise worth, negotiate purchase, and contract for procurement. Plan conservation of wildlife habitats, creek beds, water quality, and soil stability or plant new trees, monitor for healthy growth, and plan harvesting.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	120
2030 Projected Employment:	130
Growth Rate, 2020-2030:	8.3%
Annual Average Openings:	12
<u>2021 Median Hourly Wage:</u>	<u>\$29.76</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
State government	16.7%	15.4%
Real estate	14.2%	14.6%
Federal government	14.2%	12.3%
Management/scientific/technical consulting	11.7%	13.9%
Self-employed workers	n	n
<u>Utilities</u>	<u>n</u>	<u>n</u>

## 19-1041 Epidemiologists



Investigate and describe the determinants and distribution of disease, disability, or health outcomes. May develop the means for prevention and control.

**Entry-Level Education, Experience, & Training:**

<u>Master's degree   none   none</u>	
2020 Estimated Employment:	25
2030 Projected Employment:	33
Growth Rate, 2020-2030:	32%
Annual Average Openings:	3
<u>2021 Median Wage:</u>	<u>n</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Colleges/universities/professional schools	n	n
Hospitals	n	n
Local government	n	n

**19-1042 Medical Scientists, Except Epidemiologists**

Conduct research to understand human diseases and improvement of human health. Engage in clinical investigation, research and development, or related activities. Includes physicians, dentists, pharmacologists, and medical pathologists who primarily conduct research.

**Entry-Level Education, Experience, & Training:**

<u>Doctorate/Professional   none   none</u>	
2020 Estimated Employment:	270
2030 Projected Employment:	315
Growth Rate, 2020-2030:	16.7%
Annual Average Openings:	25
<u>2021 Median Hourly Wage:</u>	<u>\$38.81</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Scientific research/development services	10.4%	11.4%
State government	4.1%	3.5%
Ambulatory health care services	n	n
Chemical manufacturing	n	n
Colleges/universities/professional schools	n	n
Hospitals	n	n

**19-2012 Physicists**

Conduct research into physical phenomena, develop theories on the basis of observation and experiments, and devise methods to apply physical laws and theories. Excludes "Biochemists and Biophysicists" (19-1021).

**Entry-Level Education, Experience, & Training:**

<u>Doctorate/Professional   none   none</u>	
2020 Estimated Employment:	95
2030 Projected Employment:	103
Growth Rate, 2020-2030:	8.4%
Annual Average Openings:	8
<u>2021 Median Hourly Wage:</u>	<u>\$50.00</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Computer/electronic product manufacturing	44.2%	44.7%
Colleges/universities/professional schools	22.1%	21.4%
State government	9.5%	8.7%
Employment services	n	n
Hospitals	n	n
Management/scientific/technical consulting	n	n

**19-2021 Atmospheric and Space Scientists**

Investigate atmospheric phenomena and interpret meteorological data, gathered by surface and air stations, satellites, and radar to prepare reports and forecasts for public and other uses. Includes weather analysts and forecasters whose functions require the detailed knowledge of meteorology.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	64
2030 Projected Employment:	76
Growth Rate, 2020-2030:	18.8%
Annual Average Openings:	7
<u>2021 Median Hourly Wage:</u>	<u>\$18.75</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Federal government	n	n
Other professional/scientific/technical services	n	n
Scientific research/development services	n	n

**19-2031 Chemists**

Conduct qualitative and quantitative chemical analyses or experiments in laboratories for quality or process control or to develop new products or knowledge. Excludes "Biochemists and Biophysicists" (19-1021) and "Geoscientists, Except Hydrologists and Geographers" (19-2042).

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	256
2030 Projected Employment:	306
Growth Rate, 2020-2030:	19.5%
Annual Average Openings:	30
<u>2021 Median Hourly Wage:</u>	<u>\$48.83</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Chemical manufacturing	31.6%	37.9%
Food manufacturing	11.7%	10.8%
Wholesale trade	11.7%	10.1%
Miscellaneous manufacturing	4.7%	4.3%
Architectural/engineering/related services	n	n
Scientific research/development services	n	n

19-2032 Materials Scientists 

Research and study structures and chemical properties of natural and synthetic or composite materials, including metals, alloys, rubber, ceramics, semiconductors, polymers, and glass. Determine ways to strengthen or combine materials or develop new materials with specific properties. Includes glass, ceramic, metallurgical, and polymer scientists.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>		Computer/electronic product manufacturing		72.4%	71.6%
2020 Estimated Employment:	123	Scientific research/development services		10.6%	10.5%
2030 Projected Employment:	134	Wholesale trade		7.3%	7.5%
Growth Rate, 2020-2030:	8.9%	Chemical manufacturing		n	n
Annual Average Openings:	13	Machinery manufacturing		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$80.31</u>	Miscellaneous manufacturing		n	n

19-2041 Environmental Scientists and Specialists, Including Health 

Conduct research or investigation to identify, abate, or eliminate sources of pollutants or hazards that affect either the environment or public health. Using various scientific disciplines, collect, synthesize, study, report, and recommend action based on data from measurements or observations of air, food, soil, water, and other sources.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>		State government		56.5%	52.7%
2020 Estimated Employment:	375	Management/scientific/technical consulting		21.9%	25.7%
2030 Projected Employment:	404	Architectural/engineering/related services		11.2%	11.1%
Growth Rate, 2020-2030:	7.7%	Federal government		1.3%	1.2%
Annual Average Openings:	40	Religious/granting/civic/professional orgs		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$35.36</u>	Scientific research/development services		n	n

19-2042 Geoscientists, Except Hydrologists and Geographers 

Study physical aspects of the Earth. Use geology, physics, and math to explore for oil, gas, minerals, or underground water; or in waste disposal, land reclamation, or environmental issues. Study Earth's internal composition, atmosphere, oceans, or magnetism and gravitation. Includes mineralogists, paleontologists, geodesists, and seismologists.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>		Architectural/engineering/related services		55.0%	54.2%
2020 Estimated Employment:	131	Management/scientific/technical consulting		16.8%	19.7%
2030 Projected Employment:	142	Colleges/universities/professional schools		10.7%	9.9%
Growth Rate, 2020-2030:	8.4%	Federal government		8.4%	7.8%
Annual Average Openings:	14	State government		4.6%	4.2%
<u>2021 Median Hourly Wage:</u>	<u>\$34.72</u>				

19-2043 Hydrologists 

Research the distribution, circulation, and physical properties of underground and surface waters; and study the form and intensity of precipitation and its rate of infiltration into the soil, movement through the earth, and return to the ocean and atmosphere.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>		Management/scientific/technical consulting		44.0%	49.6%
2020 Estimated Employment:	100	State government		26.0%	23.0%
2030 Projected Employment:	113	Architectural/engineering/related services		13.0%	12.4%
Growth Rate, 2020-2030:	13%	Federal government		n	n
Annual Average Openings:	11	Local government		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$42.51</u>	Scientific research/development services		n	n



## 19-2099 Physical Scientists, All Other



All physical scientists not listed separately.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	109
2030 Projected Employment:	107
Growth Rate, 2020-2030:	-1.8%
Annual Average Openings:	8
<u>2021 Median Wage:</u>	n

**Employing Industries**

	2020 Share	2030 Share
Federal government	57.8%	57.0%
Colleges/universities/professional schools	30.3%	31.8%
Self-employed workers	10.1%	9.4%
Crop production	1.8%	1.9%

## 19-3011 Economists



Conduct research, prepare reports, or formulate plans to address economic problems related to the production and distribution of goods and services or monetary and fiscal policy. May collect and process economic and statistical data using sampling techniques and econometric methods.

**Entry-Level Education, Experience, & Training:**

<u>Master's degree   none   none</u>	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
<u>2021 Median Hourly Wage:</u>	\$68.94

**Employing Industries**

	2020 Share	2030 Share
Colleges/universities/professional schools	n	n
Federal government	n	n
State government	n	n

## 19-3022 Survey Researchers



Plan, develop, or conduct surveys. May analyze and interpret the meaning of survey data, determine survey objectives, or suggest or test question wording. Includes social scientists who primarily design questionnaires or supervise survey teams. Excludes "Market Research Analysts and Marketing Specialists" (13-1161) and "Statisticians" (15-2041).

**Entry-Level Education, Experience, & Training:**

<u>Master's degree   none   none</u>	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
<u>2021 Median Wage:</u>	n

**Employing Industries**

	2020 Share	2030 Share
Educational support services	n	n
Publishing industries	n	n
Other professional/scientific/technical services	n	n
Self-employed workers	n	n

## 19-3031 Clinical, Counseling, and School Psychologists



This occupation includes the 2018 SOC occupations 19-3033 Clinical and Counseling Psychologists and 19-3034 School Psychologists and the 2010 SOC occupation 19-3031 Clinical, Counseling, and School Psychologists.

**Entry-Level Education, Experience, & Training:**

<u>Doctorate/Professional   none   Intern/Residency</u>	
2020 Estimated Employment:	454
2030 Projected Employment:	498
Growth Rate, 2020-2030:	9.7%
Annual Average Openings:	35
<u>2021 Median Wage:</u>	n/a

**Employing Industries**

	2020 Share	2030 Share
Ambulatory health care services	48.5%	50.2%
Elementary/secondary schools (public/private)	41.0%	39.6%
Self-employed workers	4.0%	3.6%
Colleges/universities/professional schools	n	n
Hospitals	n	n
Social Assistance	n	n

**19-3039 Psychologists, All Other**

All psychologists not listed separately.

**Entry-Level Education, Experience, & Training:**

<u>Master's degree   none   Intern/Residency</u>	
2020 Estimated Employment:	97
2030 Projected Employment:	98
Growth Rate, 2020-2030:	1%
Annual Average Openings:	6
<u>2021 Median Hourly Wage:</u>	<u>\$56.62</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Self-employed workers	68.0%	68.4%
Federal government	21.7%	20.4%
Ambulatory health care services	n	n
Hospitals	n	n

**19-3041 Sociologists**

Study human society and social behavior by examining the groups and social institutions that people form, as well as various social, religious, political, and business organizations. May study the behavior and interaction of groups, trace their origin and growth, and analyze the influence of group activities on individual members.

**Entry-Level Education, Experience, & Training:**

<u>Master's degree   none   none</u>	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
<u>2021 Median Wage:</u>	<u>n</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Colleges/universities/professional schools	n	n
Scientific research/development services	n	n
Self-employed workers	n	n

**19-3051 Urban and Regional Planners**

Develop comprehensive plans and programs for use of land and physical facilities of jurisdictions, such as towns, cities, counties, and metropolitan areas.

**Entry-Level Education, Experience, & Training:**

<u>Master's degree   none   none</u>	
2020 Estimated Employment:	220
2030 Projected Employment:	238
Growth Rate, 2020-2030:	8.2%
Annual Average Openings:	22
<u>2021 Median Hourly Wage:</u>	<u>\$36.06</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Local government	91.8%	92.4%
State government	7.3%	6.7%

**19-3091 Anthropologists and Archeologists**

Study origins, development, and behavior of humans. Study the way of life, language, or physical characteristics of people in various parts of the world. Engage in systematic recovery and examination of material evidence, such as tools or pottery from past human cultures, to determine the history, customs, and living habits of earlier civilizations.

**Entry-Level Education, Experience, & Training:**

<u>Master's degree   none   none</u>	
2020 Estimated Employment:	36
2030 Projected Employment:	40
Growth Rate, 2020-2030:	11.1%
Annual Average Openings:	3
<u>2021 Median Hourly Wage:</u>	<u>\$24.15</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Colleges/universities/professional schools	n	n
Federal government	n	n
Management/scientific/technical consulting	n	n
Museums/historical sites/similar institutions	n	n
Scientific research/development services	n	n
Self-employed workers	n	n

19-3092 Geographers 

Study the nature and use of Earth's surface, interpreting interactions of physical and cultural phenomena. Research aspects of a region, such as climates, soils, plants, and animals, and spatial impacts of humans, such as social characteristics, economic activities, and political organization, and interdependence between regions, from local to global.

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>	Federal government	n	n
2020 Estimated Employment: n			
2030 Projected Employment: n			
Growth Rate, 2020-2030: n			
Annual Average Openings: n			
2021 Median Wage: n			

19-3093 Historians 

Research, analyze, record, and interpret the past as recorded in sources, such as government and institutional records, newspapers and other periodicals, photographs, interviews, films, electronic media, and unpublished manuscripts, such as personal diaries and letters.

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
<u>Master's degree   none   none</u>	Colleges/universities/professional schools	n	n
2020 Estimated Employment: n	Federal government	n	n
2030 Projected Employment: n	Self-employed workers	n	n
Growth Rate, 2020-2030: n	State government	n	n
Annual Average Openings: n			
2021 Median Wage: n			

19-3094 Political Scientists 

Study the origin, development, and operation of political systems. Study topics, such as public opinion, political decisionmaking, and ideology. Analyze the structure and operation of governments, and political entities. Conduct public opinion surveys, analyze election results, or analyze public documents.

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
<u>Master's degree   none   none</u>	Religious/granting/civic/professional orgs	50.7%	56.3%
2020 Estimated Employment: 77	Publishing industries	36.4%	33.3%
2030 Projected Employment: 87	Management of companies/enterprises	n	n
Growth Rate, 2020-2030: 13%	Self-employed workers	n	n
Annual Average Openings: 8			
2021 Median Hourly Wage: \$39.62			

19-3099 Social Scientists and Related Workers, All Other 

All social scientists and related workers not listed separately.

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>	Colleges/universities/professional schools	53.4%	54.6%
2020 Estimated Employment: 118	Federal government	35.6%	33.9%
2030 Projected Employment: 121	Self-employed workers	4.2%	4.1%
Growth Rate, 2020-2030: 2.5%	Ambulatory health care services	n	n
Annual Average Openings: 11	Educational support services	n	n
2021 Median Hourly Wage: \$35.32			

**19-4010 Agricultural and Food Science Technicians**

This occupation includes the 2018 SOC occupations 19-4012 Agricultural Technicians and 19-4013 Food Science Technicians and the 2010 SOC occupation 19-4011 Agricultural and Food Science Technicians.

**Entry-Level Education, Experience, & Training:**

Associate's degree   none   Moderate OJT	
2020 Estimated Employment:	20
2030 Projected Employment:	23
Growth Rate, 2020-2030:	15%
Annual Average Openings:	2
2021 Median Hourly Wage:	\$21.83

**Employing Industries**

	2020 Share	2030 Share
Crop production	100.0%	100.0%

**19-4021 Biological Technicians**

Assist biological and medical scientists. Set up, operate, and maintain laboratory instruments and equipment, monitor experiments, collect data and samples, make observations, and calculate and record results. May analyze organic substances, such as blood, food, and drugs.

**Entry-Level Education, Experience, & Training:**

Bachelor's degree   none   none	
2020 Estimated Employment:	470
2030 Projected Employment:	505
Growth Rate, 2020-2030:	7.4%
Annual Average Openings:	65
2021 Median Hourly Wage:	\$23.14

**Employing Industries**

	2020 Share	2030 Share
Colleges/universities/professional schools	66.6%	66.5%
Scientific research/development services	15.3%	15.6%
Federal government	3.6%	3.2%
Ambulatory health care services	n	n
Hospitals	n	n
Junior colleges	n	n

**19-4031 Chemical Technicians**

Conduct chemical or physical lab tests to assist scientists in qualitative and quantitative analyses of solids, liquids, and gaseous materials for research and development of new products or processes, quality control, maintenance of environmental standards, and other work involving experimental, theoretical, or practical application of chemistry.

**Entry-Level Education, Experience, & Training:**

Associate's degree   none   Moderate OJT	
2020 Estimated Employment:	176
2030 Projected Employment:	198
Growth Rate, 2020-2030:	12.5%
Annual Average Openings:	22
2021 Median Hourly Wage:	\$22.66

**Employing Industries**

	2020 Share	2030 Share
Architectural/engineering/related services	23.9%	23.7%
Chemical manufacturing	22.2%	26.3%
Colleges/universities/professional schools	n	n
Computer/electronic product manufacturing	n	n
Miscellaneous manufacturing	n	n
Plastics/rubber products manufacturing	n	n

**19-4042 Environmental Science and Protection Technicians, Including Health**

Perform laboratory and field tests to monitor the environment and investigate sources of pollution, including those that affect health, under the direction of an environmental scientist, engineer, or other specialist. May collect samples of gases, soil, water, and other materials for testing.

**Entry-Level Education, Experience, & Training:**

Associate's degree   none   none	
2020 Estimated Employment:	113
2030 Projected Employment:	128
Growth Rate, 2020-2030:	13.3%
Annual Average Openings:	16
2021 Median Hourly Wage:	\$22.97

**Employing Industries**

	2020 Share	2030 Share
Management/scientific/technical consulting	40.7%	45.3%
Architectural/engineering/related services	18.6%	18.0%
State government	16.8%	14.8%
Local government	8.0%	7.8%
Self-employed workers	2.7%	2.3%

**19-4045 Geological and Hydrologic Technicians**

This occupation includes the 2018 SOC occupations 19-4043 Geological Technicians, Except Hydrologic Technicians and 19-4044 Hydrologic Technicians and the 2010 SOC occupation 19-4041 Geological and Petroleum Technicians.

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
<u>Associate's degree   none   Moderate OJT</u>	Federal government	37.5%	39.5%
2020 Estimated Employment: 38	State government	15.8%	15.0%
2030 Projected Employment: 40	Architectural/engineering/related services	n	n
Growth Rate, 2020-2030: 5.3%	Heavy/civil engineering construction	n	n
Annual Average Openings: 5	Self-employed workers	n	n
<u>2021 Median Wage: n/a</u>			

**19-4051 Nuclear Technicians**

Assist nuclear physicists, nuclear engineers, or other scientists in laboratory, power generation, or electricity production activities. May operate, maintain, or provide quality control for nuclear testing and research equipment. May monitor radiation.

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
<u>Associate's degree   none   Moderate OJT</u>	Management/scientific/technical consulting	n	n
2020 Estimated Employment: n	Self-employed workers	n	n
2030 Projected Employment: n	Utilities	n	n
Growth Rate, 2020-2030: n			
Annual Average Openings: n			
<u>2021 Median Wage: n</u>			

**19-4061 Social Science Research Assistants**

Assist social scientists in laboratory, survey, and other social science research. May help prepare findings for publication and assist in laboratory analysis, quality control, or data management. Excludes "Teaching Assistants, Postsecondary" (25-9044).

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>	Colleges/universities/professional schools	71.4%	67.9%
2020 Estimated Employment: 49	Self-employed workers	2.0%	1.9%
2030 Projected Employment: 53	Ambulatory health care services	n	n
Growth Rate, 2020-2030: 8.2%	Management/scientific/technical consulting	n	n
Annual Average Openings: 6			
<u>2021 Median Wage: n</u>			

**19-4071 Forest and Conservation Technicians**

Provide technical assistance for conserving soil, water, forests, or natural resources. Compile data on size, content, or condition of forest tracts under the direction of foresters, or train and lead workers in forest propagation and fire prevention and suppression. Assist scientists to manage, improve, or protect rangelands and wildlife habitats.

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
<u>Associate's degree   none   none</u>	Federal government	82.7%	79.0%
2020 Estimated Employment: 75	Religious/granting/civic/professional orgs	10.7%	13.2%
2030 Projected Employment: 76	Local government	6.7%	7.9%
Growth Rate, 2020-2030: 1.3%			
Annual Average Openings: 9			
<u>2021 Median Hourly Wage: \$16.95</u>			

19-4092 Forensic Science Technicians 

Collect, identify, classify, and analyze physical evidence related to criminal investigations. Test weapons or substances, such as fiber, hair, or tissue to determine significance. May testify as expert witness on evidence or crime lab techniques. May specialize in area of expertise, such as ballistics, fingerprints, handwriting, or biochemistry.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   Moderate OJT</u>		State government		81.6%	80.0%
2020 Estimated Employment:	49	Local government		18.4%	20.0%
2030 Projected Employment:	55				
Growth Rate, 2020-2030:	12.2%				
Annual Average Openings:	7				
2021 Median Hourly Wage:	\$37.23				

19-4099 Life, Physical, and Social Science Technicians, All Other 

All life, physical, and social science technicians not listed separately.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Associate's degree   none   none</u>		Ambulatory health care services		30.2%	30.9%
2020 Estimated Employment:	106	Investigation/security services		20.8%	21.1%
2030 Projected Employment:	123	Other professional/scientific/technical services		17.9%	21.1%
Growth Rate, 2020-2030:	16%	Federal government		13.2%	11.4%
Annual Average Openings:	16	Self-employed workers		2.8%	2.4%
2021 Median Hourly Wage:	\$24.00				

19-5011 Occupational Health and Safety Specialists 

Review, evaluate, and analyze work environments and design programs and procedures to control, eliminate, and prevent disease or injury due to chemical, physical, or biological agents, or ergonomics. Conduct inspections and enforce adherence to laws and regulations governing individual health and safety. May work in the public or private sector.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>		Management/scientific/technical consulting		21.1%	23.9%
2020 Estimated Employment:	540	Specialty trade contractors		8.3%	7.9%
2030 Projected Employment:	606	Local government		6.5%	6.3%
Growth Rate, 2020-2030:	12.2%	Federal government		5.9%	5.1%
Annual Average Openings:	48	Computer/electronic product manufacturing		5.7%	5.5%
2021 Median Hourly Wage:	\$38.19	Wholesale trade		5.0%	4.6%

19-5012 Occupational Health and Safety Technicians 

Collect data on work environments for analysis by occupational health and safety specialists. Implement and conduct evaluation of programs designed to limit chemical, physical, biological, and ergonomic risks to workers.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>		Ambulatory health care services		n	n
2020 Estimated Employment:	34	Accounting/tax/bookkeeping/payroll services		n	n
2030 Projected Employment:	37	Computer/electronic product manufacturing		n	n
Growth Rate, 2020-2030:	8.8%	Fabricated metal product manufacturing		n	n
Annual Average Openings:	3	Hospitals		n	n
2021 Median Hourly Wage:	\$23.60	Machinery manufacturing		n	n

**21-1012 Educational, Guidance, and Career Counselors and Advisors**

Advise and assist students and provide educational and vocational guidance services.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Master's degree   none   none</u>		Elementary/secondary schools (public/private)		39.0%	37.2%
2020 Estimated Employment:	2,055	Colleges/universities/professional schools		34.8%	37.1%
2030 Projected Employment:	2,282	Social Assistance		6.4%	6.5%
Growth Rate, 2020-2030:	11%	Employment services		5.6%	5.5%
Annual Average Openings:	222	Publishing industries		4.8%	4.9%
<u>2021 Median Hourly Wage:</u>	<u>\$23.40</u>	Junior colleges		3.0%	2.5%

**21-1013 Marriage and Family Therapists**

Diagnose and treat mental and emotional disorders, whether cognitive, affective, or behavioral, within marriage and family systems. Apply psychotherapeutic and family systems theories and techniques in the delivery of services to individuals, couples, and families for the purpose of treating such diagnosed nervous and mental disorders.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Master's degree   none   Intern/Residency</u>		Ambulatory health care services		75.7%	78.1%
2020 Estimated Employment:	37	Self-employed workers		13.5%	12.2%
2030 Projected Employment:	41	Religious/granting/civic/professional orgs		n	n
Growth Rate, 2020-2030:	10.8%	Social Assistance		n	n
Annual Average Openings:	3				
<u>2021 Median Hourly Wage:</u>	<u>\$22.35</u>				

**21-1015 Rehabilitation Counselors**

Counsel individuals to maximize independence and employability of those coping with personal, social, or vocational difficulties due to birth defects, illness, disease, accidents, aging, or stress of daily life. Coordinate activities for residents of treatment facilities. Assess client needs and plan counseling, training, or job placement programs.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Master's degree   none   none</u>		Social Assistance		48.8%	49.1%
2020 Estimated Employment:	365	Nursing/residential care facilities		17.0%	16.7%
2030 Projected Employment:	407	State government		11.8%	10.8%
Growth Rate, 2020-2030:	11.5%	Religious/granting/civic/professional orgs		10.4%	11.6%
Annual Average Openings:	40	Ambulatory health care services		4.1%	4.4%
<u>2021 Median Hourly Wage:</u>	<u>\$21.42</u>				

**21-1018 Substance Abuse, Behavioral Disorder, and Mental Health Counselors**

This occupation includes the 2018 and 2010 SOC occupations 21-1011 Substance Abuse and Behavioral Disorder Counselors and 21-1014 Mental Health Counselors.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>		Ambulatory health care services		47.9%	46.5%
2020 Estimated Employment:	2,047	Social Assistance		21.2%	25.0%
2030 Projected Employment:	2,569	Nursing/residential care facilities		9.8%	9.0%
Growth Rate, 2020-2030:	25.5%	Self-employed workers		5.5%	5.7%
Annual Average Openings:	264	Hospitals		3.1%	2.8%
<u>2021 Median Hourly Wage:</u>	<u>\$22.42</u>				

**21-1019 Counselors, All Other**

All counselors not listed separately.

**Entry-Level Education, Experience, & Training:**

<u>Master's degree   none   none</u>	
2020 Estimated Employment:	62
2030 Projected Employment:	68
Growth Rate, 2020-2030:	9.7%
Annual Average Openings:	7
<u>2021 Median Hourly Wage:</u>	<u>\$18.52</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Self-employed workers	43.6%	39.7%
Social Assistance	29.0%	33.8%
Ambulatory health care services	n	n
Colleges/universities/professional schools	n	n
Office administrative services	n	n
Religious/granting/civic/professional orgs	n	n

**21-1021 Child, Family, and School Social Workers**

Provide social services and assistance to improve the social and psychological functioning of children and their families and maximize family well-being and academic functioning of children. Assist parents, arrange adoptions, or find foster homes for abandoned or abused children. In schools, address problems like teen pregnancy, misbehavior, and truancy.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	696
2030 Projected Employment:	776
Growth Rate, 2020-2030:	11.5%
Annual Average Openings:	75
<u>2021 Median Hourly Wage:</u>	<u>\$23.41</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
State government	36.9%	33.4%
Ambulatory health care services	31.9%	33.9%
Social Assistance	17.4%	19.7%
Elementary/secondary schools (public/private)	8.3%	7.9%
Nursing/residential care facilities	4.6%	4.4%

**21-1022 Healthcare Social Workers**

Provide individuals, families, and groups with the psychosocial support needed to cope with chronic, acute, or terminal illness. Advise caregivers, provide patients with information and counseling, and make referrals. May provide case and care management or interventions to promote health, prevent disease, and address barriers to healthcare access.

**Entry-Level Education, Experience, & Training:**

<u>Master's degree   none   Intern/Residency</u>	
2020 Estimated Employment:	626
2030 Projected Employment:	686
Growth Rate, 2020-2030:	9.6%
Annual Average Openings:	66
<u>2021 Median Hourly Wage:</u>	<u>\$30.71</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Ambulatory health care services	33.1%	36.0%
Hospitals	29.7%	29.2%
State government	15.3%	14.1%
Nursing/residential care facilities	15.2%	14.3%
Local government	3.5%	3.5%
Self-employed workers	1.4%	1.0%

**21-1023 Mental Health and Substance Abuse Social Workers**

Assess and treat individuals with mental, emotional, or substance abuse problems, including abuse of alcohol, tobacco, and/or other drugs. Activities may include individual and group therapy, crisis intervention, case management, client advocacy, prevention, and education.

**Entry-Level Education, Experience, & Training:**

<u>Master's degree   none   Intern/Residency</u>	
2020 Estimated Employment:	466
2030 Projected Employment:	538
Growth Rate, 2020-2030:	15.5%
Annual Average Openings:	53
<u>2021 Median Hourly Wage:</u>	<u>\$29.56</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Ambulatory health care services	63.1%	63.8%
Social Assistance	10.3%	11.3%
Self-employed workers	2.6%	2.4%
Hospitals	n	n
Nursing/residential care facilities	n	n
State government	n	n



21-1029 Social Workers, All Other 

All social workers not listed separately.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	146
2030 Projected Employment:	149
Growth Rate, 2020-2030:	2.1%
Annual Average Openings:	13
<u>2021 Median Hourly Wage:</u>	<u>\$38.72</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Federal government	45.9%	43.6%
Legal services	38.4%	39.6%
Self-employed workers	9.6%	9.4%
Ambulatory health care services	6.2%	7.4%

21-1091 Health Education Specialists 

Provide health education programs that help individuals, families, and communities maintain healthy lifestyles. Use data to identify needs, and plan, implement, monitor, and evaluate programs designed to encourage healthy lifestyles, policies, or environments. May link health systems, providers, insurers, and patients to address needs.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	253
2030 Projected Employment:	296
Growth Rate, 2020-2030:	17%
Annual Average Openings:	32
<u>2021 Median Hourly Wage:</u>	<u>\$30.56</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Ambulatory health care services	25.7%	26.7%
Social Assistance	17.0%	18.2%
Religious/granting/civic/professional orgs	15.0%	15.5%
Hospitals	12.7%	11.5%
Colleges/universities/professional schools	4.7%	4.1%

21-1092 Probation Officers and Correctional Treatment Specialists 

Provide social services to assist in rehabilitation of law offenders in custody or on probation or parole. Make recommendations for actions involving formulation of rehabilitation plan and treatment of offender, including conditional release and education and employment stipulations.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   Short OJT</u>	
2020 Estimated Employment:	238
2030 Projected Employment:	243
Growth Rate, 2020-2030:	2.1%
Annual Average Openings:	19
<u>2021 Median Hourly Wage:</u>	<u>\$32.40</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
State government	88.2%	87.2%
Local government	10.5%	11.1%
Social Assistance	1.3%	1.7%

21-1093 Social and Human Service Assistants 

Assist social service providers offering client services in psychology, rehabilitation, or social work, including support for families. Assist clients to obtain benefits or services. Assist social workers develop, organize, or conduct programs to prevent or resolve problems related to substance abuse, relationships, rehabilitation, or dependent care.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Short OJT</u>	
2020 Estimated Employment:	1,881
2030 Projected Employment:	2,224
Growth Rate, 2020-2030:	18.2%
Annual Average Openings:	271
<u>2021 Median Hourly Wage:</u>	<u>\$17.75</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Social Assistance	44.2%	46.9%
Ambulatory health care services	19.0%	19.1%
Nursing/residential care facilities	18.1%	16.9%
Religious/granting/civic/professional orgs	6.4%	6.4%
State government	4.6%	3.9%
Hospitals	3.0%	2.7%

**21-1094 Community Health Workers**

Promote community health, assisting individuals to adopt healthy behaviors. Advocate for individuals health needs, or help residents communicate with healthcare providers or social service agencies. Implement programs to promote, maintain, or improve overall health. Deliver preventive services such as blood pressure, glaucoma, or hearing screenings.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Short OJT</u>	
2020 Estimated Employment:	283
2030 Projected Employment:	355
Growth Rate, 2020-2030:	25.4%
Annual Average Openings:	40
2021 Median Hourly Wage:	\$18.67

**Employing Industries**

	2020 Share	2030 Share
Social Assistance	53.0%	55.8%
Ambulatory health care services	23.3%	22.8%
Nursing/residential care facilities	9.9%	9.3%
Hospitals	6.4%	5.6%
Local government	1.4%	1.1%

**21-1099 Community and Social Service Specialists, All Other**

All community and social service specialists not listed separately.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	559
2030 Projected Employment:	656
Growth Rate, 2020-2030:	17.4%
Annual Average Openings:	73
2021 Median Hourly Wage:	\$22.66

**Employing Industries**

	2020 Share	2030 Share
Social Assistance	38.8%	41.6%
Religious/granting/civic/professional orgs	25.6%	25.2%
Ambulatory health care services	9.3%	9.5%
Nursing/residential care facilities	7.5%	7.0%
Hospitals	5.9%	5.5%
Legal services	2.9%	2.6%

**21-2011 Clergy**

Conduct religious worship and perform other spiritual functions associated with beliefs and practices of religious faith or denomination. Provide spiritual and moral guidance and assistance to members.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   Moderate OJT</u>	
2020 Estimated Employment:	769
2030 Projected Employment:	784
Growth Rate, 2020-2030:	2%
Annual Average Openings:	79
2021 Median Hourly Wage:	\$29.74

**Employing Industries**

	2020 Share	2030 Share
Religious/granting/civic/professional orgs	72.0%	69.6%
Ambulatory health care services	7.2%	8.7%
Elementary/secondary schools (public/private)	6.5%	7.0%
Hospitals	4.9%	5.2%
Self-employed workers	4.3%	4.1%
Colleges/universities/professional schools	2.6%	2.9%

**21-2021 Directors, Religious Activities and Education**

Coordinate or design programs and conduct outreach to promote the religious education or activities of a denominational group. May provide counseling, guidance, and leadership relative to marital, health, financial, and religious problems.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   &lt; 5 yrs   none</u>	
2020 Estimated Employment:	433
2030 Projected Employment:	434
Growth Rate, 2020-2030:	0.2%
Annual Average Openings:	49
2021 Median Hourly Wage:	\$14.77

**Employing Industries**

	2020 Share	2030 Share
Religious/granting/civic/professional orgs	84.5%	83.0%
Elementary/secondary schools (public/private)	11.6%	13.1%
Hospitals	1.2%	1.2%

**21-2099 Religious Workers, All Other**

All religious workers not listed separately.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	194
2030 Projected Employment:	194
Growth Rate, 2020-2030:	0%
Annual Average Openings:	26
<u>2021 Median Hourly Wage:</u>	<u>\$22.04</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Religious/granting/civic/professional orgs	79.9%	78.9%
Elementary/secondary schools (public/private)	12.9%	14.4%
Self-employed workers	4.1%	3.6%
Management of companies/enterprises	3.1%	3.1%

**23-1011 Lawyers**

Represent clients in criminal and civil litigation and other legal proceedings, draw up legal documents, or manage or advise clients on legal transactions. May specialize in a single area or may practice broadly in many areas of law.

**Entry-Level Education, Experience, & Training:**

<u>Doctorate/Professional   none   none</u>	
2020 Estimated Employment:	2,361
2030 Projected Employment:	2,611
Growth Rate, 2020-2030:	10.6%
Annual Average Openings:	140
<u>2021 Median Hourly Wage:</u>	<u>\$47.51</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Legal services	54.2%	54.5%
Self-employed workers	15.6%	13.9%
Local government	5.3%	5.2%
Management of companies/enterprises	3.4%	3.5%
State government	3.3%	3.0%
Health/personal care stores	2.8%	2.8%

**23-1021 Administrative Law Judges, Adjudicators, and Hearing Officers**

Conduct hearings to recommend or make decisions on claims concerning government programs or other government-related matters. Determine liability, sanctions, or penalties, or recommend the acceptance or rejection of claims or settlements. Excludes "Arbitrators, Mediators, and Conciliators" (23-1022).

**Entry-Level Education, Experience, & Training:**

<u>Doctorate/Professional   5+ yrs   Short OJT</u>	
2020 Estimated Employment:	144
2030 Projected Employment:	144
Growth Rate, 2020-2030:	0%
Annual Average Openings:	7
<u>2021 Median Hourly Wage:</u>	<u>\$31.01</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
State government	89.6%	89.6%
Federal government	10.4%	10.4%

**23-1022 Arbitrators, Mediators, and Conciliators**

Facilitate negotiation and conflict resolution through dialogue. Resolve conflicts outside of the court system by mutual consent of parties involved.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   &lt; 5 yrs   Moderate OJT</u>	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
<u>2021 Median Hourly Wage:</u>	<u>\$28.73</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Colleges/universities/professional schools	n	n
Ambulatory health care services	n	n
Hospitals	n	n
Self-employed workers	n	n
State government	n	n

**23-1023 Judges, Magistrate Judges, and Magistrates**

Arbitrate, advise, adjudicate, or administer justice in a court of law. May sentence defendant in criminal cases according to government statutes or sentencing guidelines. May determine liability of defendant in civil cases. May perform wedding ceremonies.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Doctorate/Professional   5+ yrs   Short OJT</u>		State government		95.6%	95.6%
2020 Estimated Employment:	90	Local government		4.4%	4.4%
2030 Projected Employment:	91				
Growth Rate, 2020-2030:	1.1%				
Annual Average Openings:	4				
<u>2021 Median Wage:</u>	<u>n/a</u>				

**23-2011 Paralegals and Legal Assistants**

Assist lawyers by investigating facts, preparing legal documents, or researching legal precedent. Conduct research to support a legal proceeding, to formulate a defense, or to initiate legal action. Excludes "Legal Secretaries and Administrative Assistants" (43-6012).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Associate's degree   none   none</u>		Legal services		75.0%	75.0%
2020 Estimated Employment:	1,170	State government		5.8%	5.1%
2030 Projected Employment:	1,324	Self-employed workers		3.1%	2.7%
Growth Rate, 2020-2030:	13.2%	Religious/granting/civic/professional orgs		1.9%	2.0%
Annual Average Openings:	147	Federal government		1.8%	1.5%
<u>2021 Median Hourly Wage:</u>	<u>\$28.27</u>				

**23-2091 Court Reporters**

Use verbatim methods and equipment to capture, store, retrieve, and transcribe pretrial and trial proceedings or other information. Includes stenocaptioners who operate computerized stenographic captioning equipment to provide captions of live or prerecorded broadcasts for hearing-impaired viewers.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Postsecondary   none   Short OJT</u>		Self-employed workers		100.0%	100.0%
2020 Estimated Employment:	62				
2030 Projected Employment:	61				
Growth Rate, 2020-2030:	-1.6%				
Annual Average Openings:	0				
<u>2021 Median Wage:</u>	<u>n/a</u>				

**23-2093 Title Examiners, Abstractors, and Searchers**

Search real estate records, examine titles, or summarize pertinent legal or insurance documents or details for a variety of purposes. May compile lists of mortgages, contracts, and other instruments pertaining to titles by searching public and private records for law firms, real estate agencies, or title insurance companies

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>		Legal services		n	n
2020 Estimated Employment:	n	Self-employed workers		n	n
2030 Projected Employment:	n	State government		n	n
Growth Rate, 2020-2030:	n				
Annual Average Openings:	n				
<u>2021 Median Hourly Wage:</u>	<u>\$19.74</u>				

**23-2099 Legal Support Workers, All Other**

All legal support workers not listed separately.

**Entry-Level Education, Experience, & Training:**

<u>Associate's degree</u>   none   none	
2020 Estimated Employment:	72
2030 Projected Employment:	73
Growth Rate, 2020-2030:	1.4%
Annual Average Openings:	7
<u>2021 Median Hourly Wage:</u>	<u>\$36.51</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Federal government	45.8%	43.8%
State government	19.4%	19.2%
Legal services	12.5%	12.3%
Local government	8.3%	9.6%
Elementary/secondary schools (public/private)	n	n
Self-employed workers	n	n

**25-1011 Business Teachers, Postsecondary**

Teach courses in business administration and management, such as accounting, finance, human resources, labor and industrial relations, marketing, and operations research. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

**Entry-Level Education, Experience, & Training:**

<u>Doctorate/Professional</u>   none   none	
2020 Estimated Employment:	490
2030 Projected Employment:	517
Growth Rate, 2020-2030:	5.5%
Annual Average Openings:	49
<u>2021 Median Annual Wage:</u>	<u>\$100,456</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Colleges/universities/professional schools	92.0%	92.7%
Junior colleges	7.8%	7.0%

**25-1021 Computer Science Teachers, Postsecondary**

Teach courses in computer science. May specialize in a field of computer science, such as the design and function of computers or operations and research analysis. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

**Entry-Level Education, Experience, & Training:**

<u>Doctorate/Professional</u>   none   none	
2020 Estimated Employment:	133
2030 Projected Employment:	140
Growth Rate, 2020-2030:	5.3%
Annual Average Openings:	13
<u>2021 Median Annual Wage:</u>	<u>\$92,382</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Colleges/universities/professional schools	80.5%	82.1%
Junior colleges	19.6%	17.9%

**25-1022 Mathematical Science Teachers, Postsecondary**

Teach courses pertaining to mathematical concepts, statistics, and actuarial science and to the application of original and standardized mathematical techniques in solving specific problems and situations. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

**Entry-Level Education, Experience, & Training:**

<u>Doctorate/Professional</u>   none   none	
2020 Estimated Employment:	140
2030 Projected Employment:	146
Growth Rate, 2020-2030:	4.3%
Annual Average Openings:	14
<u>2021 Median Annual Wage:</u>	<u>\$77,629</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Colleges/universities/professional schools	77.9%	79.5%
Junior colleges	22.1%	20.6%

**25-1032 Engineering Teachers, Postsecondary**

Teach courses related to applying physical laws and principles of engineering for the development of machines, materials, instruments, processes, and services. Includes teachers of chemical, civil, electrical, industrial, mechanical, mineral, and petroleum engineering. Includes those who are primarily engaged in teaching, or both teach and do research.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Doctorate/Professional   none   none</u>		Colleges/universities/professional schools		95.0%	95.5%
2020 Estimated Employment:	141	Junior colleges		5.0%	4.5%
2030 Projected Employment:	157				
Growth Rate, 2020-2030:	11.3%				
Annual Average Openings:	16				
2021 Median Annual Wage:	\$99,336				

**25-1042 Biological Science Teachers, Postsecondary**

Teach courses in the agricultural sciences. Includes teachers of agronomy, dairy sciences, fisheries management, horticultural sciences, poultry sciences, range management, and agricultural soil conservation. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Doctorate/Professional   none   none</u>		Colleges/universities/professional schools		93.8%	94.2%
2020 Estimated Employment:	324	Junior colleges		5.9%	5.5%
2030 Projected Employment:	364				
Growth Rate, 2020-2030:	12.3%				
Annual Average Openings:	35				
2021 Median Annual Wage:	\$124,662				

**25-1051 Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary**

Teach courses in the physical sciences, except chemistry and physics. Includes both teachers primarily engaged in teaching, and those who do a combination of teaching and research.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Doctorate/Professional   none   none</u>		Colleges/universities/professional schools		100.0%	100.0%
2020 Estimated Employment:	57				
2030 Projected Employment:	60				
Growth Rate, 2020-2030:	5.3%				
Annual Average Openings:	6				
2021 Median Annual Wage:	\$78,400				

**25-1052 Chemistry Teachers, Postsecondary**

Teach courses pertaining to the chemical and physical properties and compositional changes of substances. Work may include providing instruction in the methods of qualitative and quantitative chemical analysis. Includes both teachers primarily engaged in teaching, and those who do a combination of teaching and research.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Doctorate/Professional   none   none</u>		Colleges/universities/professional schools		86.8%	87.5%
2020 Estimated Employment:	68	Junior colleges		13.2%	12.5%
2030 Projected Employment:	72				
Growth Rate, 2020-2030:	5.9%				
Annual Average Openings:	6				
2021 Median Annual Wage:	\$103,134				

**25-1053 Environmental Science Teachers, Postsecondary**

Teach courses in environmental science. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research. Excludes "Forestry and Conservation Science Teachers, Postsecondary" (25-1043).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Doctorate/Professional   none   none</u>		Colleges/universities/professional schools		98.7%	98.8%
2020 Estimated Employment:	77	Junior colleges		1.3%	1.2%
2030 Projected Employment:	81				
Growth Rate, 2020-2030:	5.2%				
Annual Average Openings:	8				
2021 Median Annual Wage:	\$96,386				

**25-1054 Physics Teachers, Postsecondary**

Teach courses pertaining to the laws of matter and energy. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Doctorate/Professional   none   none</u>		Colleges/universities/professional schools		85.7%	86.4%
2020 Estimated Employment:	77	Junior colleges		14.3%	13.6%
2030 Projected Employment:	81				
Growth Rate, 2020-2030:	5.2%				
Annual Average Openings:	8				
2021 Median Wage:	n				

**25-1061 Anthropology and Archeology Teachers, Postsecondary**

Teach courses in anthropology or archeology. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Doctorate/Professional   none   none</u>		Colleges/universities/professional schools		n	n
2020 Estimated Employment:	n				
2030 Projected Employment:	n				
Growth Rate, 2020-2030:	n				
Annual Average Openings:	n				
2021 Median Wage:	n				

**25-1062 Area, Ethnic, and Cultural Studies Teachers, Postsecondary**

Teach courses pertaining to the culture and development of an area, an ethnic group, or any other group, such as Latin American studies, women's studies, or urban affairs. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Doctorate/Professional   none   none</u>		Colleges/universities/professional schools		97.7%	97.9%
2020 Estimated Employment:	44	Junior colleges		2.3%	2.1%
2030 Projected Employment:	47				
Growth Rate, 2020-2030:	6.8%				
Annual Average Openings:	4				
2021 Median Wage:	n				

**25-1063 Economics Teachers, Postsecondary**

Teach courses in economics. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

**Entry-Level Education, Experience, & Training:**

Doctorate/Professional   none   none	
2020 Estimated Employment:	82
2030 Projected Employment:	88
Growth Rate, 2020-2030:	7.3%
Annual Average Openings:	9
2021 Median Annual Wage:	\$157,358

**Employing Industries**

	2020 Share	2030 Share
Colleges/universities/professional schools	100.0%	100.0%

**25-1064 Geography Teachers, Postsecondary**

Teach courses in geography. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

**Entry-Level Education, Experience, & Training:**

Doctorate/Professional   none   none	
2020 Estimated Employment:	27
2030 Projected Employment:	29
Growth Rate, 2020-2030:	7.4%
Annual Average Openings:	2
2021 Median Wage:	n

**Employing Industries**

	2020 Share	2030 Share
Colleges/universities/professional schools	100.0%	100.0%

**25-1065 Political Science Teachers, Postsecondary**

Teach courses in political science, international affairs, and international relations. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

**Entry-Level Education, Experience, & Training:**

Doctorate/Professional   none   none	
2020 Estimated Employment:	91
2030 Projected Employment:	98
Growth Rate, 2020-2030:	7.7%
Annual Average Openings:	9
2021 Median Annual Wage:	\$99,336

**Employing Industries**

	2020 Share	2030 Share
Colleges/universities/professional schools	100.0%	100.0%

**25-1066 Psychology Teachers, Postsecondary**

Teach courses in psychology, such as child, clinical, and developmental psychology, and psychological counseling. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

**Entry-Level Education, Experience, & Training:**

Doctorate/Professional   none   none	
2020 Estimated Employment:	194
2030 Projected Employment:	204
Growth Rate, 2020-2030:	5.2%
Annual Average Openings:	19
2021 Median Annual Wage:	\$78,715

**Employing Industries**

	2020 Share	2030 Share
Colleges/universities/professional schools	63.4%	66.2%
Junior colleges	36.1%	33.3%



**25-1067 Sociology Teachers, Postsecondary**

Teach courses in sociology. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Doctorate/Professional   none   none</u>		Colleges/universities/professional schools		100.0%	100.0%
2020 Estimated Employment:	76				
2030 Projected Employment:	81				
Growth Rate, 2020-2030:	6.6%				
Annual Average Openings:	8				
2021 Median Annual Wage:	\$80,128				

**25-1069 Social Sciences Teachers, Postsecondary, All Other**

All postsecondary social sciences teachers not listed separately.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Doctorate/Professional   none   none</u>		Colleges/universities/professional schools		n	n
2020 Estimated Employment:	n	Junior colleges		n	n
2030 Projected Employment:	n				
Growth Rate, 2020-2030:	n				
Annual Average Openings:	n				
2021 Median Annual Wage:	\$64,642				

**25-1071 Health Specialties Teachers, Postsecondary**

Teach courses in health specialties, in fields such as dentistry, laboratory technology, medicine, pharmacy, public health, therapy, and veterinary medicine. Excludes "Biological Science Teachers, Postsecondary" (25-1042) and "Nursing Instructors and Teachers, Postsecondary" (25-1072) who teach medical science.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Doctorate/Professional   &lt; 5 yrs   none</u>		Colleges/universities/professional schools		82.5%	84.1%
2020 Estimated Employment:	418	Junior colleges		13.4%	11.8%
2030 Projected Employment:	508	Ambulatory health care services		1.9%	2.0%
Growth Rate, 2020-2030:	21.5%	Hospitals		1.2%	1.2%
Annual Average Openings:	52				
2021 Median Annual Wage:	\$104,669				

**25-1072 Nursing Instructors and Teachers, Postsecondary**

Demonstrate and teach patient care in classroom and clinical units to nursing students. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Master's degree   &lt; 5 yrs   none</u>		Technical/trade schools		39.7%	40.6%
2020 Estimated Employment:	224	Colleges/universities/professional schools		38.4%	39.5%
2030 Projected Employment:	271	Junior colleges		19.2%	17.3%
Growth Rate, 2020-2030:	21%	Hospitals		2.2%	2.2%
Annual Average Openings:	28				
2021 Median Annual Wage:	\$78,614				

**25-1081 Education Teachers, Postsecondary**

Teach courses pertaining to education, such as counseling, curriculum, guidance, instruction, teacher education, and teaching English as a second language. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

**Entry-Level Education, Experience, & Training:**

<u>Doctorate/Professional   &lt; 5 yrs   none</u>	
2020 Estimated Employment:	318
2030 Projected Employment:	338
Growth Rate, 2020-2030:	6.3%
Annual Average Openings:	32
2021 Median Annual Wage:	\$63,904

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Colleges/universities/professional schools	91.2%	92.0%
Junior colleges	7.6%	6.8%

**25-1111 Criminal Justice and Law Enforcement Teachers, Postsecondary**

Teach courses in criminal justice, corrections, and law enforcement administration. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

**Entry-Level Education, Experience, & Training:**

<u>Doctorate/Professional   none   none</u>	
2020 Estimated Employment:	60
2030 Projected Employment:	67
Growth Rate, 2020-2030:	11.7%
Annual Average Openings:	7
2021 Median Annual Wage:	\$70,843

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Colleges/universities/professional schools	88.3%	89.6%
Junior colleges	11.7%	10.5%

**25-1112 Law Teachers, Postsecondary**

Teach courses in law. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

**Entry-Level Education, Experience, & Training:**

<u>Doctorate/Professional   &lt; 5 yrs   none</u>	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Wage:	n/a

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Colleges/universities/professional schools	n	n
Junior colleges	n	n

**25-1113 Social Work Teachers, Postsecondary**

Teach courses in social work. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

**Entry-Level Education, Experience, & Training:**

<u>Doctorate/Professional   none   none</u>	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Annual Wage:	\$66,520

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Colleges/universities/professional schools	n	n
Junior colleges	n	n

25-1121 Art, Drama, and Music Teachers, Postsecondary 

Teach courses in drama, music, and the arts including fine and applied art, such as painting and sculpture, or design and crafts. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Master's degree   none   none</u>		Colleges/universities/professional schools		92.5%	92.8%
2020 Estimated Employment:	334	Junior colleges		5.4%	5.0%
2030 Projected Employment:	361				
Growth Rate, 2020-2030:	8.1%				
Annual Average Openings:	35				
<u>2021 Median Annual Wage:</u>	<u>\$77,439</u>				

25-1122 Communications Teachers, Postsecondary 

Teach courses in communications, such as organizational communications, public relations, radio/television broadcasting, and journalism. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Doctorate/Professional   none   none</u>		Colleges/universities/professional schools		100.0%	100.0%
2020 Estimated Employment:	69				
2030 Projected Employment:	74				
Growth Rate, 2020-2030:	7.2%				
Annual Average Openings:	6				
<u>2021 Median Annual Wage:</u>	<u>\$77,907</u>				

25-1123 English Language and Literature Teachers, Postsecondary 

Teach courses in English language and literature, including linguistics and comparative literature. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Doctorate/Professional   none   none</u>		Colleges/universities/professional schools		86.1%	87.2%
2020 Estimated Employment:	316	Junior colleges		13.6%	12.5%
2030 Projected Employment:	335				
Growth Rate, 2020-2030:	6%				
Annual Average Openings:	32				
<u>2021 Median Annual Wage:</u>	<u>\$77,966</u>				

25-1124 Foreign Language and Literature Teachers, Postsecondary 

Teach languages and literature courses in languages other than English. Includes teachers of American Sign Language (ASL). Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Doctorate/Professional   none   none</u>		Colleges/universities/professional schools		99.2%	99.2%
2020 Estimated Employment:	241				
2030 Projected Employment:	260				
Growth Rate, 2020-2030:	7.9%				
Annual Average Openings:	25				
<u>2021 Median Wage:</u>	<u>n</u>				

**25-1125 History Teachers, Postsecondary**

Teach courses in human history and historiography. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

**Entry-Level Education, Experience, & Training:**

<u>Doctorate/Professional   none   none</u>	
2020 Estimated Employment:	103
2030 Projected Employment:	111
Growth Rate, 2020-2030:	7.8%
Annual Average Openings:	11
<u>2021 Median Annual Wage:</u>	<u>\$96,445</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Colleges/universities/professional schools	99.0%	99.1%

**25-1126 Philosophy and Religion Teachers, Postsecondary**

Teach courses in philosophy, religion, and theology. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

**Entry-Level Education, Experience, & Training:**

<u>Doctorate/Professional   none   none</u>	
2020 Estimated Employment:	125
2030 Projected Employment:	137
Growth Rate, 2020-2030:	9.6%
Annual Average Openings:	13
<u>2021 Median Annual Wage:</u>	<u>\$62,782</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Colleges/universities/professional schools	99.2%	99.3%

**25-1193 Recreation and Fitness Studies Teachers, Postsecondary**

Teach courses pertaining to recreation, leisure, and fitness studies, including exercise physiology and facilities management. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

**Entry-Level Education, Experience, & Training:**

<u>Doctorate/Professional   none   none</u>	
2020 Estimated Employment:	26
2030 Projected Employment:	28
Growth Rate, 2020-2030:	7.7%
Annual Average Openings:	2
<u>2021 Median Annual Wage:</u>	<u>\$48,793</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Colleges/universities/professional schools	92.3%	92.9%
Junior colleges	7.7%	7.1%

**25-1194 Career / Technical Education Teachers, Postsecondary**

Teach courses to provide occupational training below the baccalaureate level in subjects such as construction, mechanics/repair, manufacturing, transportation, or cosmetology, primarily to students who have graduated from or left high school. Teaching takes place in public or private schools whose primary business is academic or vocational education.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   &lt; 5 yrs   none</u>	
2020 Estimated Employment:	441
2030 Projected Employment:	488
Growth Rate, 2020-2030:	10.7%
Annual Average Openings:	48
<u>2021 Median Hourly Wage:</u>	<u>\$29.55</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Technical/trade schools	29.7%	28.1%
Junior colleges	25.9%	21.7%
Other schools/instruction	24.0%	30.5%
Colleges/universities/professional schools	16.3%	16.0%
State government	3.6%	3.3%

**25-1199 Postsecondary Teachers, All Other**



All postsecondary teachers not listed separately.

**Entry-Level Education, Experience, & Training:**

<u>Doctorate/Professional</u>   none   none	
2020 Estimated Employment:	203
2030 Projected Employment:	213
Growth Rate, 2020-2030:	4.9%
Annual Average Openings:	20
<u>2021 Median Annual Wage:</u>	<u>\$61,688</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Colleges/universities/professional schools	89.2%	90.1%
Junior colleges	10.8%	9.9%

**25-2011 Preschool Teachers, Except Special Education**



Instruct preschool-aged students, following curricula or lesson plans, in activities designed to promote social, physical, and intellectual growth. Excludes “Special Education Teachers” (25-2050), “Substitute Teachers, Short-Term” (25-3031), and “Childcare Workers” (39-9011).

**Entry-Level Education, Experience, & Training:**

<u>Associate's degree</u>   none   none	
2020 Estimated Employment:	2,753
2030 Projected Employment:	3,320
Growth Rate, 2020-2030:	20.6%
Annual Average Openings:	358
<u>2021 Median Hourly Wage:</u>	<u>\$14.25</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Social Assistance	77.2%	80.4%
Religious/granting/civic/professional orgs	9.1%	7.7%
Elementary/secondary schools (public/private)	5.1%	4.6%
Hospitals	2.6%	2.3%
Colleges/universities/professional schools	2.1%	1.9%
Local government	1.8%	1.6%

**25-2012 Kindergarten Teachers, Except Special Education**



Teach academic and social skills to kindergarten students. Excludes “Special Education Teachers” (25-2050) and “Substitute Teachers, Short-Term” (25-3031).

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree</u>   none   none	
2020 Estimated Employment:	472
2030 Projected Employment:	500
Growth Rate, 2020-2030:	5.9%
Annual Average Openings:	51
<u>2021 Median Annual Wage:</u>	<u>\$61,351</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Elementary/secondary schools (public/private)	98.3%	98.6%
Religious/granting/civic/professional orgs	1.3%	1.2%

**25-2021 Elementary School Teachers, Except Special Education**



Teach academic and social skills to students at the elementary school level. Excludes “Special Education Teachers” (25-2050) and “Substitute Teachers, Short-Term” (25-3031).

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree</u>   none   none	
2020 Estimated Employment:	6,321
2030 Projected Employment:	6,679
Growth Rate, 2020-2030:	5.7%
Annual Average Openings:	496
<u>2021 Median Annual Wage:</u>	<u>\$61,221</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Elementary/secondary schools (public/private)	98.9%	99.3%

**25-2022 Middle School Teachers, Except Special and Career/Technical Education**

Teach one or more subjects to students at the middle, intermediate, or junior high school level. Excludes “Career/Technical Education Teachers, Middle School” (25-2023), “Special Education Teachers” (25-2050), and “Substitute Teachers, Short Term” (25-3031).

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	2,876
2030 Projected Employment:	3,041
Growth Rate, 2020-2030:	5.7%
Annual Average Openings:	225
2021 Median Annual Wage:	\$61,640

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Elementary/secondary schools (public/private)	99.4%	99.8%

**25-2023 Career/Technical Education Teachers, Middle School**

Teach occupational, vocational, career, or technical subjects to students at the middle, intermediate, or junior high school level. Excludes “Special Education Teachers” (25-2050) and “Substitute Teachers, Short-Term” (25-3031).

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   &lt; 5 yrs   none</u>	
2020 Estimated Employment:	50
2030 Projected Employment:	53
Growth Rate, 2020-2030:	6%
Annual Average Openings:	4
2021 Median Annual Wage:	\$68,960

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Elementary/secondary schools (public/private)	100.0%	100.0%

**25-2031 Secondary School Teachers, Except Special and Career/Technical Education**

Teach one or more subjects to students at the secondary school level. Excludes “Career/Technical Education Teachers, Secondary School” (25-2032), “Special Education Teachers” (25-2050), and “Substitute Teachers, Short-Term” (25-3031).

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	4,237
2030 Projected Employment:	4,491
Growth Rate, 2020-2030:	6%
Annual Average Openings:	318
2021 Median Annual Wage:	\$61,821

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Elementary/secondary schools (public/private)	98.9%	99.1%

**25-2032 Career/Technical Education Teachers, Secondary School**

Teach occupational, vocational, career, or technical subjects to students at the secondary school level. Excludes “Special Education Teachers” (25-2050), and “Substitute Teachers, Short-Term” (25-3031).

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   &lt; 5 yrs   none</u>	
2020 Estimated Employment:	246
2030 Projected Employment:	260
Growth Rate, 2020-2030:	5.7%
Annual Average Openings:	18
2021 Median Annual Wage:	\$61,221

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Elementary/secondary schools (public/private)	100.0%	100.0%

**25-2051 Special Education Teachers, Preschool**

Teach academic, social, and life skills to preschool-aged students with learning, emotional, or physical disabilities. Includes teachers who specialize and work with students who are blind or have visual impairments; students who are deaf or have hearing impairments; and students with intellectual disabilities.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	46
2030 Projected Employment:	50
Growth Rate, 2020-2030:	8.7%
Annual Average Openings:	4
2021 Median Annual Wage:	\$63,524

**Employing Industries**

	2020 Share	2030 Share
Elementary/secondary schools (public/private)	39.1%	38.0%
Local government	30.4%	30.0%
Religious/granting/civic/professional orgs	28.3%	28.0%
Social Assistance	2.2%	4.0%

**25-2052 Special Education Teachers, Kindergarten and Elementary School**

This occupation includes the 2018 SOC occupations 25-2055 Special Education Teachers, Kindergarten and 25-2056 Special Education Teachers, Elementary School and the 2010 SOC occupation 25-2052 Special Education Teachers, Kindergarten and Elementary School.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	1,204
2030 Projected Employment:	1,274
Growth Rate, 2020-2030:	5.8%
Annual Average Openings:	96
2021 Median Annual Wage:	\$61,220

**Employing Industries**

	2020 Share	2030 Share
Elementary/secondary schools (public/private)	99.7%	99.8%

**25-2057 Special Education Teachers, Middle School**

Teach academic, social, and life skills to middle school students with learning, emotional, or physical disabilities. Includes teachers who specialize and work with students who are blind or have visual impairments; students who are deaf or have hearing impairments; and students with intellectual disabilities.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	438
2030 Projected Employment:	463
Growth Rate, 2020-2030:	5.7%
Annual Average Openings:	35
2021 Median Annual Wage:	\$60,902

**Employing Industries**

	2020 Share	2030 Share
Elementary/secondary schools (public/private)	100.0%	100.0%

**25-2058 Special Education Teachers, Secondary School**

Teach academic, social, and life skills to secondary school students with learning, emotional, or physical disabilities. Includes teachers who specialize and work with students who are blind or have visual impairments; students who are deaf or have hearing impairments; and students with intellectual disabilities.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	522
2030 Projected Employment:	553
Growth Rate, 2020-2030:	5.9%
Annual Average Openings:	42
2021 Median Annual Wage:	\$61,821

**Employing Industries**

	2020 Share	2030 Share
Elementary/secondary schools (public/private)	98.7%	98.6%
Ambulatory health care services	1.3%	1.5%

## 25-2059 Special Education Teachers, All Other



All special education teachers not listed separately.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	166
2030 Projected Employment:	184
Growth Rate, 2020-2030:	10.8%
Annual Average Openings:	15
2021 Median Annual Wage:	\$57,592

**Employing Industries**

	2020 Share	2030 Share
Elementary/secondary schools (public/private)	43.4%	41.3%
Nursing/residential care facilities	43.4%	44.0%
Social Assistance	8.4%	9.8%
Federal government	2.4%	2.2%

## 25-3011 Adult Basic Education, Adult Secondary Education, and English as a Second Language Instructors



Teach or instruct out-of-school youths and adults in basic education, literacy, or English as a Second Language classes, or in classes for earning a high school equivalency credential.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	183
2030 Projected Employment:	186
Growth Rate, 2020-2030:	1.6%
Annual Average Openings:	21
2021 Median Hourly Wage:	\$22.55

**Employing Industries**

	2020 Share	2030 Share
Educational support services	63.4%	60.8%
Other professional/scientific/technical services	11.5%	14.0%
Elementary/secondary schools (public/private)	7.7%	7.0%
Self-employed workers	7.1%	8.1%
Social Assistance	7.1%	7.0%
Local government	2.2%	2.2%

## 25-3021 Self-Enrichment Teachers



Teach or instruct individuals or groups for the primary purpose of self-enrichment or recreation, rather than for an occupational objective, educational attainment, competition, or fitness. Flight instructors are included with Aircraft Pilots and Flight Engineers.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   &lt; 5 yrs   none</u>	
2020 Estimated Employment:	1,597
2030 Projected Employment:	2,029
Growth Rate, 2020-2030:	27.1%
Annual Average Openings:	248
2021 Median Hourly Wage:	\$23.45

**Employing Industries**

	2020 Share	2030 Share
Other schools/instruction	37.2%	42.6%
Self-employed workers	18.3%	16.6%
Religious/granting/civic/professional orgs	10.1%	8.3%
Amusements/gambling/recreation industries	8.5%	9.2%
Sporting goods/hobby/book/music stores	5.1%	3.8%
Accommodation	4.8%	4.9%

## 25-3031 Substitute Teachers, Short-Term



Teach students on a short-term basis as a temporary replacement for a regular classroom teacher, typically using the regular teacher's lesson plan. Excludes long-term substitute teachers who perform all the duties of a regular teacher; these teachers are coded within the 25-1000 or 25-2000 minor groups.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	1,646
2030 Projected Employment:	1,825
Growth Rate, 2020-2030:	10.9%
Annual Average Openings:	215
2021 Median Hourly Wage:	\$14.00

**Employing Industries**

	2020 Share	2030 Share
Elementary/secondary schools (public/private)	93.3%	93.1%
Self-employed workers	4.8%	5.0%
Social Assistance	1.0%	1.0%



**25-3097 Teachers and Instructors, All Other, Except Substitute Teachers**

This occupation includes the 2018 SOC occupations 25-3041 Tutors and 25-3099 Teachers and Instructors, All Other and the OES-specific 2010 SOC occupation 25-3097 Teachers and Instructors, All Other, Except Substitute Teachers.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>		Elementary/secondary schools (public/private)		38.8%	37.0%
2020 Estimated Employment:	965	Self-employed workers		12.8%	13.1%
2030 Projected Employment:	1,074	Colleges/universities/professional schools		10.8%	10.5%
Growth Rate, 2020-2030:	11.3%	Other schools/instruction		8.0%	10.4%
Annual Average Openings:	127	Social Assistance		7.6%	8.3%
<u>2021 Median Wage:</u>	<u>n/a</u>	Junior colleges		5.5%	4.7%

**25-4011 Archivists**

Appraise, edit, and direct safekeeping of permanent records and historically valuable documents. Participate in research activities based on archival materials.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Master's degree   none   none</u>		Local government		33.3%	31.4%
2020 Estimated Employment:	30	Colleges/universities/professional schools		26.7%	25.7%
2030 Projected Employment:	35	Other information services		13.3%	14.3%
Growth Rate, 2020-2030:	16.7%	Elementary/secondary schools (public/private)		n	n
Annual Average Openings:	4	Museums/historical sites/similar institutions		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$22.62</u>	Self-employed workers		n	n

**25-4012 Curators**

Administer collections, such as artwork, collectibles, historic items, or scientific specimens of museums or other institutions. May conduct instructional, research, or public service activities of institution.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Master's degree   none   none</u>		Museums/historical sites/similar institutions		57.1%	67.2%
2020 Estimated Employment:	91	Colleges/universities/professional schools		26.4%	22.4%
2030 Projected Employment:	116	Self-employed workers		8.8%	4.3%
Growth Rate, 2020-2030:	27.5%	Elementary/secondary schools (public/private)		n	n
Annual Average Openings:	13	Management/scientific/technical consulting		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$28.60</u>	Other information services		n	n

**25-4013 Museum Technicians and Conservators**

Restore, maintain, or prepare objects in museum collections for storage, research, or exhibit. May work with specimens such as fossils, skeletal parts, or botanicals; or artifacts, textiles, or art. May identify and record objects or install and arrange them in exhibits. Includes book or document conservators.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>		Colleges/universities/professional schools		50.0%	44.4%
2020 Estimated Employment:	30	Museums/historical sites/similar institutions		26.7%	33.3%
2030 Projected Employment:	36	Federal government		n	n
Growth Rate, 2020-2030:	20%	Management/scientific/technical consulting		n	n
Annual Average Openings:	5	Self-employed workers		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$22.55</u>				

**25-4022 Librarians and Media Collections Specialists**

Administer and maintain libraries or collections in educational institutions, museums, or corporations, for public or private use, reference, or borrowing. Work with materials like books, periodicals, recordings, films, or databases. Acquire, catalog, and circulate materials, assist users to locate or access information, or operate media equipment.

**Entry-Level Education, Experience, & Training:**

<u>Master's degree   none   none</u>	
2020 Estimated Employment:	1,047
2030 Projected Employment:	1,122
Growth Rate, 2020-2030:	7.2%
Annual Average Openings:	108
2021 Median Hourly Wage:	\$29.43

**Employing Industries**

	2020 Share	2030 Share
Local government	45.2%	45.9%
Elementary/secondary schools (public/private)	29.9%	29.6%
Colleges/universities/professional schools	16.9%	17.0%
Other information services	2.8%	2.9%
Self-employed workers	1.1%	0.5%
		n

**25-4031 Library Technicians**

Assist librarians by helping readers to locate books and materials using catalogs, databases, or indexes; and answer questions, consulting standard references. Sort and shelve books or media; remove or repair damaged books or media; register patrons; and check materials in and out. Replace materials in stacks or files. Includes bookmobile drivers.

**Entry-Level Education, Experience, & Training:**

<u>Postsecondary   none   none</u>	
2020 Estimated Employment:	633
2030 Projected Employment:	616
Growth Rate, 2020-2030:	-2.7%
Annual Average Openings:	88
2021 Median Hourly Wage:	\$18.27

**Employing Industries**

	2020 Share	2030 Share
Local government	56.9%	57.1%
Colleges/universities/professional schools	23.5%	23.4%
Elementary/secondary schools (public/private)	9.0%	8.9%
Other information services	8.4%	8.4%
State government	1.0%	1.0%

**25-9031 Instructional Coordinators**

Develop instructional material, coordinate educational content, and incorporate current technology into instruction in order to provide guidelines to educators and instructors for developing curricula and conducting courses. May train and coach teachers. Includes educational consultants and specialists, and instructional material directors.

**Entry-Level Education, Experience, & Training:**

<u>Master's degree   5+ yrs   none</u>	
2020 Estimated Employment:	632
2030 Projected Employment:	684
Growth Rate, 2020-2030:	8.2%
Annual Average Openings:	66
2021 Median Hourly Wage:	\$30.98

**Employing Industries**

	2020 Share	2030 Share
Colleges/universities/professional schools	28.6%	28.5%
Elementary/secondary schools (public/private)	28.0%	27.5%
Educational support services	16.9%	18.0%
State government	4.3%	4.0%
Publishing industries	3.6%	3.5%
Self-employed workers	2.2%	1.8%

**25-9044 Teaching Assistants, Postsecondary**

Assist faculty or instructional staff in postsecondary institutions by performing instructional support activities, such as developing teaching materials, leading discussion groups, preparing and giving exams, and grading exams or papers. Graduate students who teach one or more full courses should be classified as a postsecondary teacher.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	77
2030 Projected Employment:	79
Growth Rate, 2020-2030:	2.6%
Annual Average Openings:	8
2021 Median Annual Wage:	\$42,565

**Employing Industries**

	2020 Share	2030 Share
Colleges/universities/professional schools	74.0%	74.7%
Junior colleges	22.1%	21.5%
Technical/trade schools	3.9%	3.8%

25-9045 Teaching Assistants, Except Postsecondary 

This occupation includes the 2018 SOC occupations Teaching Assistants, Preschool, Elementary, Middle, and Secondary School, Except Special Education; Teaching Assistants, Special Education; and Teaching Assistants, All Other; and the 2010 SOC occupation Teacher Assistants.

**Entry-Level Education, Experience, & Training:**

<u>Some College   none   none</u>	
2020 Estimated Employment:	9,293
2030 Projected Employment:	9,956
Growth Rate, 2020-2030:	7.1%
Annual Average Openings:	946
2021 Median Annual Wage:	\$35,838

**Employing Industries**

	2020 Share	2030 Share
Elementary/secondary schools (public/private)	88.7%	87.7%
Social Assistance	3.9%	4.2%
Other schools/instruction	2.0%	2.7%
Nursing/residential care facilities	1.6%	1.6%

25-9099 Educational Instruction and Library Workers, All Other 

All educational instruction and library workers not listed separately.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	255
2030 Projected Employment:	275
Growth Rate, 2020-2030:	7.8%
Annual Average Openings:	27
2021 Median Hourly Wage:	\$17.93

**Employing Industries**

	2020 Share	2030 Share
Elementary/secondary schools (public/private)	49.4%	48.4%
Educational support services	24.7%	25.8%
Colleges/universities/professional schools	8.6%	8.7%
Junior colleges	6.7%	6.2%
Employment services	4.7%	5.1%
Federal government	2.8%	2.6%

27-1011 Art Directors 

Formulate design concepts and presentation approaches for visual productions and media, such as print, broadcasting, video, and film. Direct workers engaged in artwork or layout design. Excludes "Set and Exhibit Designers" (27-1027).

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   5+ yrs   none</u>	
2020 Estimated Employment:	239
2030 Projected Employment:	259
Growth Rate, 2020-2030:	8.4%
Annual Average Openings:	27
2021 Median Hourly Wage:	\$46.79

**Employing Industries**

	2020 Share	2030 Share
Self-employed workers	55.2%	55.2%
Advertising/related services	12.6%	12.7%
Specialized design services	5.4%	5.4%
Publishing industries	4.6%	4.3%
Colleges/universities/professional schools	4.6%	4.6%
Management/scientific/technical consulting	4.2%	5.0%

27-1012 Craft Artists 

Create or reproduce handmade objects for sale and exhibition using a variety of techniques, such as welding, weaving, pottery, and needlecraft.

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Long OJT</u>	
2020 Estimated Employment:	90
2030 Projected Employment:	98
Growth Rate, 2020-2030:	8.9%
Annual Average Openings:	11
2021 Median Hourly Wage:	\$18.19

**Employing Industries**

	2020 Share	2030 Share
Self-employed workers	56.7%	57.1%
Nonmetallic mineral product manufacturing	20.0%	18.4%
Sporting goods/hobby/book/music stores	11.1%	9.2%
Clothing/clothing accessories stores	n	n
Furniture/home furnishings stores	n	n
Miscellaneous manufacturing	n	n

**27-1013 Fine Artists, Including Painters, Sculptors, and Illustrators**

Create original artwork using any of a wide variety of media and techniques.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   Long OJT</u>	
2020 Estimated Employment:	187
2030 Projected Employment:	210
Growth Rate, 2020-2030:	12.3%
Annual Average Openings:	22
<u>2021 Median Hourly Wage:</u>	<u>\$16.99</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Self-employed workers	56.7%	54.8%
Amusements/gambling/recreation industries	19.3%	21.9%
Publishing industries	13.4%	11.9%
Advertising/related services	4.8%	4.8%
Colleges/universities/professional schools	n	n
<u>Non-store retailers</u>	<u>n</u>	<u>n</u>

**27-1014 Special Effects Artists and Animators**

Create special effects or animations using film, video, computers, or other electronic tools and media for use in products, such as computer games, movies, music videos, and commercials.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	82
2030 Projected Employment:	92
Growth Rate, 2020-2030:	12.2%
Annual Average Openings:	9
<u>2021 Median Hourly Wage:</u>	<u>\$33.63</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Self-employed workers	57.3%	55.4%
Management/scientific/technical consulting	13.4%	14.1%
Advertising/related services	9.8%	9.8%
Colleges/universities/professional schools	6.1%	6.5%
Computer/electronic product manufacturing	n	n
<u>Motion picture/sound recording industries</u>	<u>n</u>	<u>n</u>

**27-1019 Artists and Related Workers, All Other**

All artists and related workers not listed separately.

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Long OJT</u>	
2020 Estimated Employment:	28
2030 Projected Employment:	30
Growth Rate, 2020-2030:	7.1%
Annual Average Openings:	3
<u>2021 Median Hourly Wage:</u>	<u>\$22.40</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Federal government	50.0%	46.7%
Self-employed workers	35.7%	36.7%
Advertising/related services	n	n
<u>Amusements/gambling/recreation industries</u>	<u>n</u>	<u>n</u>

**27-1021 Commercial and Industrial Designers**

Design and develop manufactured products, such as cars, home appliances, and children's toys. Combine artistic talent with research on product use, marketing, and materials to create the most functional and appealing product design.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	95
2030 Projected Employment:	101
Growth Rate, 2020-2030:	6.3%
Annual Average Openings:	10
<u>2021 Median Hourly Wage:</u>	<u>\$30.30</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Architectural/engineering/related services	n	n
Miscellaneous manufacturing	n	n
Non-store retailers	n	n
Plastics/rubber products manufacturing	n	n
Specialty trade contractors	n	n
<u>Wholesale trade</u>	<u>n</u>	<u>n</u>

## 27-1022 Fashion Designers



Design clothing and accessories. Create original designs or adapt fashion trends.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>		Self-employed workers		24.5%	21.3%
2020 Estimated Employment:	163	Wholesale trade		16.0%	18.1%
2030 Projected Employment:	155	Other professional/scientific/technical services		16.0%	11.6%
Growth Rate, 2020-2030:	-4.9%	Apparel manufacturing		n	n
Annual Average Openings:	14	Management of companies/enterprises		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$46.07</u>	Non-store retailers		n	n

## 27-1023 Floral Designers



Design, cut, and arrange live, dried, or artificial flowers and foliage.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>		Miscellaneous store retailers		65.6%	62.2%
2020 Estimated Employment:	273	Self-employed workers		14.7%	14.0%
2030 Projected Employment:	214	Building material/garden supply stores		n	n
Growth Rate, 2020-2030:	-21.6%	Sporting goods/hobby/book/music stores		n	n
Annual Average Openings:	15	Wholesale trade		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$14.33</u>				

## 27-1024 Graphic Designers



Design or create graphics to meet specific commercial or promotional needs, such as packaging, displays, or logos. May use a variety of mediums to achieve artistic or decorative effects. Excludes "Web and Digital Interface Designers" (15-1255).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>		Self-employed workers		17.4%	15.3%
2020 Estimated Employment:	952	Publishing industries		16.7%	16.3%
2030 Projected Employment:	962	Printing/related support activities		10.8%	8.1%
Growth Rate, 2020-2030:	1.1%	Specialized design services		7.4%	7.9%
Annual Average Openings:	87	Advertising/related services		5.6%	5.5%
<u>2021 Median Hourly Wage:</u>	<u>\$24.03</u>	Management/scientific/technical consulting		5.0%	6.2%

## 27-1025 Interior Designers



Plan, design, and furnish the internal space of rooms or buildings. Design interior environments or create physical layouts that are practical, aesthetic, and conducive to the intended purposes. May specialize in a particular field, style, or phase of interior design. Excludes "Merchandise Displayers and Window Trimmers" (27-1026).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>		Building material/garden supply stores		30.9%	29.8%
2020 Estimated Employment:	317	Self-employed workers		29.7%	26.3%
2030 Projected Employment:	312	Wholesale trade		11.0%	11.9%
Growth Rate, 2020-2030:	-1.6%	Construction of buildings		8.2%	9.3%
Annual Average Openings:	29	Specialized design services		6.9%	7.7%
<u>2021 Median Hourly Wage:</u>	<u>\$29.75</u>				

**27-1026 Merchandise Displayers and Window Trimmers**



Plan and erect commercial displays, such as those in windows and interiors of retail stores and at trade exhibitions.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Short OJT</u>		Wholesale trade		41.1%	43.6%
2020 Estimated Employment:	542	Building material/garden supply stores		22.3%	21.0%
2030 Projected Employment:	544	Food/beverage stores		7.6%	7.4%
Growth Rate, 2020-2030:	0.4%	General merchandise stores		7.6%	7.0%
Annual Average Openings:	49	Advertising/related services		5.5%	6.1%
<u>2021 Median Hourly Wage:</u>	<u>\$17.65</u>	Furniture/home furnishings stores		4.6%	5.2%

**27-1027 Set and Exhibit Designers**



Design special exhibits and sets for film, video, television, and theater productions. May study scripts, confer with directors, and conduct research to determine appropriate architectural styles.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>		Self-employed workers		63.3%	61.7%
2020 Estimated Employment:	109	Other professional/scientific/technical services		17.4%	13.1%
2030 Projected Employment:	107	Advertising/related services		10.1%	12.2%
Growth Rate, 2020-2030:	-1.8%	Colleges/universities/professional schools		n	n
Annual Average Openings:	9	Museums/historical sites/similar institutions		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$29.58</u>	Performing arts/spectator sports/related		n	n

**27-1029 Designers, All Other**



All designers not listed separately.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>		Self-employed workers		62.5%	57.6%
2020 Estimated Employment:	32	Advertising/related services		n	n
2030 Projected Employment:	33	Crop production		n	n
Growth Rate, 2020-2030:	3.1%	Miscellaneous manufacturing		n	n
Annual Average Openings:	3	Religious/granting/civic/professional orgs		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$30.06</u>	Wholesale trade		n	n

**27-2011 Actors**



Play parts in stage, television, radio, video, or film productions, or other settings for entertainment, information, or instruction. Interpret serious or comic role by speech, gesture, and body movement to entertain or inform audience. May dance and sing.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Some College   none   Long OJT</u>		Amusements/gambling/recreation industries		n	n
2020 Estimated Employment:	n	Hospitals		n	n
2030 Projected Employment:	n	Performing arts/spectator sports/related		n	n
Growth Rate, 2020-2030:	n	Self-employed workers		n	n
Annual Average Openings:	n				
<u>2021 Median Wage:</u>	<u>n</u>				

27-2012 Producers and Directors 

Produce or direct stage, television, radio, video, or film productions for entertainment, information, or instruction. Responsible for creative decisions, such as interpretation of script, choice of actors or guests, set design, sound, special effects, and choreography.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Bachelor's degree   < 5 yrs   none		Broadcasting (except internet)		24.8%	18.1%
2020 Estimated Employment:	226	Performing arts/spectator sports/related		15.0%	25.6%
2030 Projected Employment:	277	Colleges/universities/professional schools		12.8%	11.6%
Growth Rate, 2020-2030:	22.6%	Self-employed workers		11.5%	11.2%
Annual Average Openings:	27	Motion picture/sound recording industries		9.3%	8.7%
2021 Median Hourly Wage:	\$30.44	Advertising/related services		8.9%	9.0%

27-2022 Coaches and Scouts 

Instruct or coach groups or individuals in fundamentals of sports for the purpose of competition. Demonstrate techniques and methods of participation. May evaluate athletes' strengths and weaknesses as possible recruits or to improve the athletes' technique to prepare them for competition. Excludes those required to hold teaching certifications.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Bachelor's degree   none   none		Colleges/universities/professional schools		38.8%	32.8%
2020 Estimated Employment:	1,276	Other schools/instruction		24.1%	28.7%
2030 Projected Employment:	1,639	Amusements/gambling/recreation industries		21.0%	22.6%
Growth Rate, 2020-2030:	28.4%	Self-employed workers		8.8%	9.1%
Annual Average Openings:	236	Elementary/secondary schools (public/private)		3.4%	2.8%
2021 Median Annual Wage:	\$39,987				

27-2023 Umpires, Referees, and Other Sports Officials 

Officiate at competitive athletic or sporting events. Detect infractions of rules and decide penalties according to established regulations. Includes all sporting officials, referees, and competition judges.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   none   Moderate OJT		Performing arts/spectator sports/related		48.8%	56.3%
2020 Estimated Employment:	43	Amusements/gambling/recreation industries		27.9%	22.5%
2030 Projected Employment:	71	Self-employed workers		14.0%	15.5%
Growth Rate, 2020-2030:	65.1%	Colleges/universities/professional schools		n	n
Annual Average Openings:	11	Elementary/secondary schools (public/private)		n	n
2021 Median Annual Wage:	\$51,450				

27-2032 Choreographers 

Create new dance routines. Rehearse performance of routines. May direct and stage presentations.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   5+ yrs   Long OJT		Other schools/instruction		75.5%	80.6%
2020 Estimated Employment:	49	Self-employed workers		24.5%	19.4%
2030 Projected Employment:	67				
Growth Rate, 2020-2030:	36.7%				
Annual Average Openings:	12				
2021 Median Wage:	n/a				

**27-2041 Music Directors and Composers**

Conduct, direct, plan, and lead instrumental or vocal performances by musical artists or groups, such as orchestras, bands, choirs, and glee clubs; or create original works of music.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   &lt; 5 yrs   none</u>	
2020 Estimated Employment:	118
2030 Projected Employment:	123
Growth Rate, 2020-2030:	4.2%
Annual Average Openings:	14
2021 Median Wage:	n

**Employing Industries**

	2020 Share	2030 Share
Religious/granting/civic/professional orgs	72.0%	68.3%
Self-employed workers	18.6%	19.5%
Colleges/universities/professional schools	5.1%	5.7%
Performing arts/spectator sports/related	3.4%	5.7%

**27-2042 Musicians and Singers**

Play one or more musical instruments or sing. May perform on stage, for broadcasting, or for sound or video recording.

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Long OJT</u>	
2020 Estimated Employment:	326
2030 Projected Employment:	350
Growth Rate, 2020-2030:	7.4%
Annual Average Openings:	41
2021 Median Hourly Wage:	\$9.08

**Employing Industries**

	2020 Share	2030 Share
Religious/granting/civic/professional orgs	61.4%	56.3%
Self-employed workers	33.1%	35.4%
Performing arts/spectator sports/related	4.3%	7.1%
Elementary/secondary schools (public/private)	1.2%	1.1%

**27-2090 Miscellaneous Entertainers and Performers, Sports and Related Workers**

This occupation includes the 2018 SOC occupations 27-2091 Disc Jockeys, Except Radio; and 27-2099 Entertainers and Performers, Sports and Related Workers, All Other; and the 2010 SOC occupation 27-2099 Entertainers and Performers, Sports and Related Workers, All Other.

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Short OJT</u>	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Wage:	n/a

**Employing Industries**

	2020 Share	2030 Share
Colleges/universities/professional schools	n	n
Performing arts/spectator sports/related	n	n
Self-employed workers	n	n

**27-3011 Broadcast Announcers and Radio Disk Jockeys**

Speak or read from scripted materials, such as news reports or commercial messages, on radio, television, or other communications media. May play and queue music, announce artist or title of performance, identify station, or interview guests. Excludes "News Analysts, Reporters, and Journalists" (27-3023).

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	118
2030 Projected Employment:	108
Growth Rate, 2020-2030:	-8.5%
Annual Average Openings:	9
2021 Median Hourly Wage:	\$15.03

**Employing Industries**

	2020 Share	2030 Share
Broadcasting (except internet)	87.3%	82.4%
Self-employed workers	11.0%	15.7%



27-3023 News Analysts, Reporters, and Journalists 

Narrate or write news stories, reviews, or commentary for print, broadcast, or other communications media such as newspapers, magazines, radio, or television. May collect and analyze information through interview, investigation, or observation.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Bachelor's degree   none   none		Publishing industries		55.5%	51.2%
2020 Estimated Employment:	128	Broadcasting (except internet)		21.1%	20.3%
2030 Projected Employment:	123	Self-employed workers		11.7%	14.6%
Growth Rate, 2020-2030:	-3.9%	Other information services		11.7%	13.8%
Annual Average Openings:	14				
2021 Median Hourly Wage:	\$18.45				

27-3031 Public Relations Specialists 

Promote or create an intended public image for individuals, groups, or organizations. May write or select material for release to various communications media. May specialize in using social media.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Bachelor's degree   none   none		Religious/granting/civic/professional orgs		24.6%	24.1%
2020 Estimated Employment:	1,123	Colleges/universities/professional schools		16.7%	16.1%
2030 Projected Employment:	1,246	Social Assistance		3.9%	4.3%
Growth Rate, 2020-2030:	11%	Office administrative services		3.5%	3.8%
Annual Average Openings:	120	Management of companies/enterprises		3.4%	3.1%
2021 Median Hourly Wage:	\$29.47				

27-3041 Editors 

Plan, coordinate, revise, or edit written material. May review proposals and drafts for possible publication.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Bachelor's degree   < 5 yrs   none		Publishing industries		36.6%	34.8%
2020 Estimated Employment:	243	Colleges/universities/professional schools		14.0%	15.0%
2030 Projected Employment:	247	Self-employed workers		9.1%	7.3%
Growth Rate, 2020-2030:	1.6%	Employment services		7.8%	8.5%
Annual Average Openings:	23	Religious/granting/civic/professional orgs		7.4%	7.7%
2021 Median Hourly Wage:	\$26.78	Other information services		6.2%	6.5%

27-3042 Technical Writers 

Write technical materials, such as equipment manuals, appendices, or operating and maintenance instructions. May assist in layout work.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Bachelor's degree   < 5 yrs   Short OJT		Computer/electronic product manufacturing		27.0%	26.0%
2020 Estimated Employment:	159	Wholesale trade		12.6%	12.4%
2030 Projected Employment:	177	Publishing industries		10.7%	10.7%
Growth Rate, 2020-2030:	11.3%	Computer systems design/related services		8.2%	9.0%
Annual Average Openings:	16	Machinery manufacturing		n	n
2021 Median Hourly Wage:	\$37.38	Office administrative services		n	n

**27-3043 Writers and Authors**

Originate and prepare written material, such as scripts, stories, advertisements, and other material. Excludes “News Analysts, Reporters, and Journalists” (27-3023), “Public Relations Specialists” (27-3031), and “Technical Writers” (27-3042).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   Long OJT</u>		Self-employed workers		65.8%	64.2%
2020 Estimated Employment:	1,041	Publishing industries		9.2%	8.4%
2030 Projected Employment:	1,114	Colleges/universities/professional schools		4.2%	4.3%
Growth Rate, 2020-2030:	7%	Other professional/scientific/technical services		2.3%	2.9%
Annual Average Openings:	109	Management/scientific/technical consulting		2.0%	2.4%
<u>2021 Median Hourly Wage:</u>	<u>\$29.66</u>				

**27-3091 Interpreters and Translators**

Interpret oral or sign language, or translate written text from one language into another.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>		Social Assistance		48.8%	50.0%
2020 Estimated Employment:	373	Self-employed workers		26.5%	26.2%
2030 Projected Employment:	470	Ambulatory health care services		7.8%	7.7%
Growth Rate, 2020-2030:	26%	Hospitals		6.7%	6.0%
Annual Average Openings:	49	Elementary/secondary schools (public/private)		5.1%	4.5%
<u>2021 Median Hourly Wage:</u>	<u>\$23.47</u>	Other professional/scientific/technical services		4.3%	4.9%

**27-3099 Media and Communication Workers, All Other**

All media and communication workers not listed separately.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Short OJT</u>		Broadcasting (except internet)		n	n
2020 Estimated Employment:	n	Colleges/universities/professional schools		n	n
2030 Projected Employment:	n	Local government		n	n
Growth Rate, 2020-2030:	n	Publishing industries		n	n
Annual Average Openings:	n				
<u>2021 Median Hourly Wage:</u>	<u>\$30.02</u>				

**27-4011 Audio and Video Technicians**

Set up, maintain, and dismantle audio and video equipment, such as microphones, sound speakers, wires and cables, sound and mixing boards, video cameras, video monitors and servers, and related electronic equipment for live or recorded events, such as concerts, meetings, conventions, presentations, podcasts, news conferences, and sporting events.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Postsecondary   none   Short OJT</u>		Motion picture/sound recording industries		21.0%	21.5%
2020 Estimated Employment:	176	Wholesale trade		14.2%	13.4%
2030 Projected Employment:	209	Religious/granting/civic/professional orgs		14.2%	12.4%
Growth Rate, 2020-2030:	18.8%	Colleges/universities/professional schools		10.2%	10.1%
Annual Average Openings:	22	Rental/leasing services		9.1%	9.1%
<u>2021 Median Hourly Wage:</u>	<u>\$22.70</u>	Self-employed workers		6.3%	5.7%

**27-4012 Broadcast Technicians**

Set up, operate, and maintain electronic equipment used to acquire, edit, and transmit audio and video for radio or television programs. Control and adjust incoming and outgoing broadcast signals to regulate sound volume, signal strength and clarity. Operate satellite, microwave, or other transmitter equipment to broadcast radio or television programs.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Associate's degree   none   Short OJT</u>		Broadcasting (except internet)		49.1%	43.7%
2020 Estimated Employment:	116	Motion picture/sound recording industries		24.1%	26.9%
2030 Projected Employment:	119	Local government		11.2%	11.8%
Growth Rate, 2020-2030:	2.6%	Self-employed workers		6.9%	7.6%
Annual Average Openings:	12	Colleges/universities/professional schools		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$28.42</u>	Other support services		n	n

**27-4014 Sound Engineering Technicians**

Assemble and operate equipment to record, synchronize, mix, edit, or reproduce sound, including music, voices, or sound effects, for theater, video, film, television, podcasts, sporting events, and other productions. Excludes "Audio and Video Technicians" (27-4011).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Postsecondary   none   Short OJT</u>		Broadcasting (except internet)		n	n
2020 Estimated Employment:	n	Colleges/universities/professional schools		n	n
2030 Projected Employment:	n	Elementary/secondary schools (public/private)		n	n
Growth Rate, 2020-2030:	n	Motion picture/sound recording industries		n	n
Annual Average Openings:	n	Performing arts/spectator sports/related		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$23.66</u>	Self-employed workers		n	n

**27-4021 Photographers**

Photograph people, landscapes, merchandise, or other subjects. May use lighting equipment to enhance a subject's appearance. May use editing software to produce finished images and prints. Includes commercial and industrial photographers, scientific photographers, and photojournalists.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>		Self-employed workers		60.9%	69.9%
2020 Estimated Employment:	215	Other professional/scientific/technical services		21.4%	13.0%
2030 Projected Employment:	246	Advertising/related services		5.6%	5.3%
Growth Rate, 2020-2030:	14.4%	Non-store retailers		n	n
Annual Average Openings:	24	Specialized design services		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$23.79</u>	Wholesale trade		n	n

**27-4031 Camera Operators, Television, Video, and Film**

Operate television, video, or film camera to record images or scenes for television, video, or film productions.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>		Self-employed workers		33.3%	35.3%
2020 Estimated Employment:	141	Local government		32.6%	32.1%
2030 Projected Employment:	156	Colleges/universities/professional schools		12.1%	11.5%
Growth Rate, 2020-2030:	10.6%	Broadcasting (except internet)		10.6%	9.0%
Annual Average Openings:	16	Advertising/related services		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$18.28</u>	Motion picture/sound recording industries		n	n

**27-4032 Film and Video Editors**

Edit moving images on film, video, or other media. May work with a producer or director to organize images for final production. May edit or synchronize soundtracks with images. Excludes "Sound Engineering Technicians" (27-4014).

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	163
2030 Projected Employment:	200
Growth Rate, 2020-2030:	22.7%
Annual Average Openings:	21
2021 Median Hourly Wage:	\$38.50

**Employing Industries**

	2020 Share	2030 Share
Motion picture/sound recording industries	54.6%	54.5%
Self-employed workers	35.0%	33.5%
Colleges/universities/professional schools	n	n
Insurance carriers/related activities	n	n
Performing arts/spectator sports/related	n	n

**27-4098 Lighting Technicians and Media and Communication Equipment Workers, All Other**

This occupation includes the 2018 SOC occupations 27-4015 Lighting Technicians and 27-4099 Media and Communication Equipment Workers, All Other and the 2010 SOC occupation 27-4099 Media and Communication Equipment Workers, All Other.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Short OJT</u>	
2020 Estimated Employment:	76
2030 Projected Employment:	102
Growth Rate, 2020-2030:	34.2%
Annual Average Openings:	11
2021 Median Wage:	n/a

**Employing Industries**

	2020 Share	2030 Share
Performing arts/spectator sports/related	26.3%	41.2%
Specialized design services	25.0%	19.6%
Motion picture/sound recording industries	17.1%	14.7%
Federal government	n	n
Local government	n	n
Self-employed workers	5.3%	4.9%

**29-1011 Chiropractors**

Assess, treat, and care for patients by manipulation of spine and musculoskeletal system. May provide spinal adjustment or address sacral or pelvic misalignment.

**Entry-Level Education, Experience, & Training:**

<u>Doctorate/Professional   none   none</u>	
2020 Estimated Employment:	186
2030 Projected Employment:	207
Growth Rate, 2020-2030:	11.3%
Annual Average Openings:	7
2021 Median Hourly Wage:	\$37.26

**Employing Industries**

	2020 Share	2030 Share
Ambulatory health care services	72.0%	75.9%
Self-employed workers	28.0%	24.2%

**29-1021 Dentists, General**

Examine, diagnose, and treat diseases, injuries, and malformations of teeth and gums. Treat diseases of nerve, pulp, and other dental tissues affecting oral hygiene and retention of teeth. May fit dental appliances or provide preventive care. Excludes Oral and Maxillofacial Surgeons, Orthodontists, Prosthodontists, and Dentists, All Other Specialists.

**Entry-Level Education, Experience, & Training:**

<u>Doctorate/Professional   none   none</u>	
2020 Estimated Employment:	438
2030 Projected Employment:	478
Growth Rate, 2020-2030:	9.1%
Annual Average Openings:	16
2021 Median Wage:	n/a

**Employing Industries**

	2020 Share	2030 Share
Ambulatory health care services	84.5%	86.8%
Self-employed workers	14.4%	12.1%

**29-1022 Oral and Maxillofacial Surgeons**

Perform surgery and related procedures on the hard and soft tissues of the oral and maxillofacial regions to treat diseases, injuries, or defects. May diagnose problems of the oral and maxillofacial regions. May perform surgery to improve function or appearance.

**Entry-Level Education, Experience, & Training:**Doctorate/Professional | none | Intern/Residency

2020 Estimated Employment: n

2030 Projected Employment: n

Growth Rate, 2020-2030: n

Annual Average Openings: n

2021 Median Wage: n/a**Employing Industries**

Ambulatory health care services

Self-employed workers

**2020 Share 2030 Share**

n n

n n

**29-1023 Orthodontists**

Examine, diagnose, and treat dental malocclusions and oral cavity anomalies. Design and fabricate appliances to realign teeth and jaws to produce and maintain normal function and to improve appearance.

**Entry-Level Education, Experience, & Training:**Doctorate/Professional | none | Intern/Residency

2020 Estimated Employment: n

2030 Projected Employment: n

Growth Rate, 2020-2030: n

Annual Average Openings: n

2021 Median Wage: n/a**Employing Industries**

Ambulatory health care services

Self-employed workers

**2020 Share 2030 Share**

n n

n n

**29-1024 Prosthodontists**

Diagnose, treat, rehabilitate, design, and fit prostheses that maintain oral function, health, and appearance for patients with clinical conditions associated with teeth, oral and maxillofacial tissues, or the jaw.

**Entry-Level Education, Experience, & Training:**Doctorate/Professional | none | Intern/Residency

2020 Estimated Employment: n

2030 Projected Employment: n

Growth Rate, 2020-2030: n

Annual Average Openings: n

2021 Median Wage: n**Employing Industries**

Ambulatory health care services

Self-employed workers

**2020 Share 2030 Share**

n n

n n

**29-1029 Dentists, All Other Specialists**

All dentists not listed separately.

**Entry-Level Education, Experience, & Training:**Doctorate/Professional | none | Intern/Residency

2020 Estimated Employment: n

2030 Projected Employment: n

Growth Rate, 2020-2030: n

Annual Average Openings: n

2021 Median Wage: n**Employing Industries**

Ambulatory health care services

Federal government

Self-employed workers

**2020 Share 2030 Share**

n n

n n

n n

## 29-1031 Dietitians and Nutritionists



Plan and conduct food service or nutritional programs to assist in the promotion of health and control of disease. May supervise activities of a department providing quantity food services, counsel individuals, or conduct nutritional research.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Bachelor's degree   none   Intern/Residency		Hospitals		40.5%	39.1%
2020 Estimated Employment:	336	Ambulatory health care services		25.3%	27.6%
2030 Projected Employment:	373	Self-employed workers		6.6%	5.9%
Growth Rate, 2020-2030:	11%				
Annual Average Openings:	28				
2021 Median Hourly Wage:	\$30.60				

## 29-1041 Optometrists



Diagnose, manage, and treat conditions and diseases of the human eye and visual system. Examine eyes and visual system, diagnose problems or impairments, prescribe corrective lenses, and provide treatment. May prescribe therapeutic drugs to treat specific eye conditions. Ophthalmologists are included in Ophthalmologists, Except Pediatric.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Doctorate/Professional   none   none		Ambulatory health care services		81.8%	83.8%
2020 Estimated Employment:	214	Self-employed workers		13.6%	11.9%
2030 Projected Employment:	235	Hospitals		3.3%	3.0%
Growth Rate, 2020-2030:	9.8%	Federal government		1.4%	1.3%
Annual Average Openings:	9				
2021 Median Hourly Wage:	\$58.43				

## 29-1051 Pharmacists



Dispense drugs prescribed by physicians and other health practitioners and provide information to patients about medications and their use. May advise physicians and other health practitioners on the selection, dosage, interactions, and side effects of medications.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Doctorate/Professional   none   none		Health/personal care stores		43.6%	39.1%
2020 Estimated Employment:	1,315	Hospitals		29.8%	31.9%
2030 Projected Employment:	1,311	Food/beverage stores		6.8%	6.4%
Growth Rate, 2020-2030:	-0.3%	Non-store retailers		5.5%	7.5%
Annual Average Openings:	49	Ambulatory health care services		4.7%	5.5%
2021 Median Hourly Wage:	\$62.80	General merchandise stores		3.3%	3.1%

## 29-1071 Physician Assistants



Provide healthcare services typically performed by a physician, under the supervision of a physician. Conduct complete physicals, provide treatment, and counsel patients. May, in some cases, prescribe medication. Must graduate from an accredited educational program for physician assistants. Excludes Nurse Practitioners.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Master's degree   none   none		Ambulatory health care services		86.2%	87.5%
2020 Estimated Employment:	637	Hospitals		10.1%	9.8%
2030 Projected Employment:	855				
Growth Rate, 2020-2030:	34.2%				
Annual Average Openings:	63				
2021 Median Hourly Wage:	\$61.63				

## 29-1081 Podiatrists



Diagnose and treat diseases and deformities of the human foot.

**Entry-Level Education, Experience, & Training:**

<u>Doctorate/Professional   none   Intern/Residency</u>	
2020 Estimated Employment:	42
2030 Projected Employment:	43
Growth Rate, 2020-2030:	2.4%
Annual Average Openings:	3
<u>2021 Median Hourly Wage:</u>	<u>\$74.10</u>

**Employing Industries**

	2020 Share	2030 Share
Ambulatory health care services	64.3%	65.1%
Self-employed workers	16.7%	16.3%
Federal government	n	n
Hospitals	n	n

## 29-1122 Occupational Therapists



Assess, plan, and organize rehabilitative programs to help build or restore vocational, homemaking, and daily living skills, as well as general independence, to persons with disabilities or developmental delays. Use therapeutic techniques, adapt the individual's environment, teach skills, and modify tasks that present barriers to the individual.

**Entry-Level Education, Experience, & Training:**

<u>Master's degree   none   none</u>	
2020 Estimated Employment:	1,021
2030 Projected Employment:	1,200
Growth Rate, 2020-2030:	17.5%
Annual Average Openings:	78
<u>2021 Median Hourly Wage:</u>	<u>\$38.03</u>

**Employing Industries**

	2020 Share	2030 Share
Ambulatory health care services	41.0%	45.4%
Hospitals	21.7%	20.5%
Elementary/secondary schools (public/private)	14.2%	12.8%
Nursing/residential care facilities	12.3%	10.4%
Social Assistance	4.4%	4.8%
Self-employed workers	2.2%	2.3%

## 29-1123 Physical Therapists



Assess, plan, organize, and participate in rehabilitative programs that improve mobility, relieve pain, increase strength, and improve or correct disabling conditions resulting from disease or injury.

**Entry-Level Education, Experience, & Training:**

<u>Doctorate/Professional   none   none</u>	
2020 Estimated Employment:	1,277
2030 Projected Employment:	1,535
Growth Rate, 2020-2030:	20.2%
Annual Average Openings:	83
<u>2021 Median Hourly Wage:</u>	<u>\$40.24</u>

**Employing Industries**

	2020 Share	2030 Share
Ambulatory health care services	49.5%	53.1%
Hospitals	30.8%	28.1%
Nursing/residential care facilities	8.8%	7.3%
Self-employed workers	5.5%	6.1%
Social Assistance	2.6%	2.8%
Elementary/secondary schools (public/private)	1.2%	1.0%

## 29-1124 Radiation Therapists



Provide radiation therapy to patients as prescribed by a radiation oncologist using established practices and standards. Review prescription and diagnosis; liaison with physician and support care personnel; prepare immobilization or protection equipment; and maintain records, reports, and files. May assist in dosimetry procedures and tumor localization.

**Entry-Level Education, Experience, & Training:**

<u>Associate's degree   none   none</u>	
2020 Estimated Employment:	77
2030 Projected Employment:	84
Growth Rate, 2020-2030:	9.1%
Annual Average Openings:	5
<u>2021 Median Hourly Wage:</u>	<u>\$45.97</u>

**Employing Industries**

	2020 Share	2030 Share
Hospitals	87.0%	85.7%
Ambulatory health care services	13.0%	14.3%

29-1125 Recreational Therapists 

Plan, direct, or coordinate medically-approved recreation programs for patients in hospitals, nursing homes, or other institutions. Activities include sports, trips, dramatics, social activities, and crafts. May assess a patient condition and recommend appropriate recreational activity. Excludes "Recreation Workers" (39-9032).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>		Hospitals		63.3%	64.0%
2020 Estimated Employment:	49	Nursing/residential care facilities		12.2%	12.0%
2030 Projected Employment:	50	State government		12.2%	12%
Growth Rate, 2020-2030:	2%	Federal government		n	n
Annual Average Openings:	4	Local government		n	n
2021 Median Hourly Wage:	\$25.98				

29-1126 Respiratory Therapists 

Assess, treat, and care for patients with breathing disorders. Assume primary responsibility for all respiratory care modalities, including the supervision of respiratory therapy technicians. Initiate and conduct therapeutic procedures; maintain patient records; and select, assemble, check, and operate equipment.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Associate's degree   none   none</u>		Hospitals		81.0%	81.7%
2020 Estimated Employment:	406	Ambulatory health care services		7.6%	8.3%
2030 Projected Employment:	496	Nursing/residential care facilities		6.7%	6.1%
Growth Rate, 2020-2030:	22.2%	Wholesale trade		2.0%	1.6%
Annual Average Openings:	30	Employment services		n	n
2021 Median Hourly Wage:	\$35.89				

29-1127 Speech-Language Pathologists 

Assess and treat persons with speech, language, voice, and fluency disorders. May select alternative communication systems and teach their use. May perform research related to speech and language problems.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Master's degree   none   Intern/Residency</u>		Elementary/secondary schools (public/private)		40.2%	36.5%
2020 Estimated Employment:	925	Ambulatory health care services		30.4%	36.8%
2030 Projected Employment:	1,188	Hospitals		9.5%	9.0%
Growth Rate, 2020-2030:	28.4%	Nursing/residential care facilities		6.5%	5.6%
Annual Average Openings:	89	Self-employed workers		5.2%	3.9%
2021 Median Hourly Wage:	\$37.16	Social Assistance		3.5%	3.8%

29-1128 Exercise Physiologists 

Assess, plan, or implement fitness programs that include exercise or physical activities such as those designed to improve cardiorespiratory function, body composition, muscular strength, muscular endurance, or flexibility. Excludes Physical Therapists, Athletic Trainers, and Exercise Trainers and Group Fitness Instructors.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>		Self-employed workers		56.0%	57.1%
2020 Estimated Employment:	100	Hospitals		42.0%	40.2%
2030 Projected Employment:	112	Ambulatory health care services		2.0%	2.7%
Growth Rate, 2020-2030:	12%				
Annual Average Openings:	8				
2021 Median Hourly Wage:	\$28.42				



29-1129 Therapists, All Other 

All therapists not listed separately.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Hourly Wage:	\$29.64

**Employing Industries**

	2020 Share	2030 Share
Ambulatory health care services	n	n
Colleges/universities/professional schools	n	n
Other schools/instruction	n	n
Nursing/residential care facilities	n	n
Self-employed workers	n	n
Social Assistance	n	n

29-1131 Veterinarians 

Diagnose, treat, or research diseases and injuries of animals. Includes veterinarians who conduct research and development, inspect livestock, or care for pets and companion animals.

**Entry-Level Education, Experience, & Training:**

<u>Doctorate/Professional   none   none</u>	
2020 Estimated Employment:	699
2030 Projected Employment:	862
Growth Rate, 2020-2030:	23.3%
Annual Average Openings:	40
2021 Median Hourly Wage:	\$48.63

**Employing Industries**

	2020 Share	2030 Share
Other professional/scientific/technical services	75.7%	74.3%
Self-employed workers	10.4%	11.1%
Religious/granting/civic/professional orgs	2.2%	2.1%
Chemical manufacturing	n	n

29-1141 Registered Nurses 

Assess patient health problems and needs, develop and implement nursing care plans, and maintain medical records. Administer nursing care to ill, injured, convalescent, or disabled patients. May advise patients on health maintenance and disease prevention or provide case management. Licensing or registration required. Includes Clinical Nurse Specialists.

**Entry-Level Education, Experience, & Training:**

<u>Associate's degree   none   none</u>	
2020 Estimated Employment:	14,008
2030 Projected Employment:	15,239
Growth Rate, 2020-2030:	8.8%
Annual Average Openings:	881
2021 Median Hourly Wage:	\$37.13

**Employing Industries**

	2020 Share	2030 Share
Hospitals	56.5%	55.3%
Ambulatory health care services	22.3%	23.9%
Nursing/residential care facilities	7.1%	6.7%
Elementary/secondary schools (public/private)	4.1%	4.0%
Employment services	2.0%	2.0%
Local government	1.9%	1.9%

29-1151 Nurse Anesthetists 

Administer anesthesia, monitor patient's vital signs, and oversee patient recovery from anesthesia. May assist anesthesiologists, surgeons, other physicians, or dentists. Must be registered nurses who have specialized graduate education.

**Entry-Level Education, Experience, & Training:**

<u>Master's degree   none   none</u>	
2020 Estimated Employment:	202
2030 Projected Employment:	230
Growth Rate, 2020-2030:	13.9%
Annual Average Openings:	13
2021 Median Wage:	n/a

**Employing Industries**

	2020 Share	2030 Share
Ambulatory health care services	76.2%	77.8%
Hospitals	20.8%	20.4%
Self-employed workers	3.0%	1.7%

29-1161 Nurse Midwives 

Diagnose and coordinate all aspects of the birthing process, either independently or as part of a healthcare team. May provide well-woman gynecological care. Must have specialized, graduate nursing education.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Master's degree   none   none		Ambulatory health care services		85.0%	86.6%
2020 Estimated Employment:	60	Hospitals		13.3%	11.9%
2030 Projected Employment:	67	Self-employed workers		1.7%	1.5%
Growth Rate, 2020-2030:	11.7%				
Annual Average Openings:	4				
2021 Median Hourly Wage:	\$48.80				

29-1171 Nurse Practitioners 

Diagnose and treat acute, episodic, or chronic illness, independently or as part of a healthcare team. May focus on health promotion and disease prevention. May order, perform, or interpret diagnostic tests such as lab work and x rays. May prescribe medication. Must be registered nurses who have specialized graduate education.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Master's degree   none   none		Ambulatory health care services		77.1%	81.3%
2020 Estimated Employment:	1,089	Hospitals		15.0%	13.0%
2030 Projected Employment:	1,734	Colleges/universities/professional schools		2.3%	1.6%
Growth Rate, 2020-2030:	59.2%	Self-employed workers		1.6%	1.2%
Annual Average Openings:	138	Social Assistance		1.5%	1.2%
2021 Median Hourly Wage:	\$58.21	Insurance carriers/related activities		1.1%	0.8%

29-1181 Audiologists 

Assess and treat persons with hearing and related disorders. May fit hearing aids and provide auditory training. May perform research related to hearing problems.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Doctorate/Professional   none   none		Ambulatory health care services		86.8%	87.5%
2020 Estimated Employment:	53	Hospitals		7.6%	7.8%
2030 Projected Employment:	64	Colleges/universities/professional schools		n	n
Growth Rate, 2020-2030:	20.8%	Self-employed workers		n	n
Annual Average Openings:	3				
2021 Median Hourly Wage:	\$37.38				

29-1211 Anesthesiologists 

Administer anesthetics and analgesics for pain management prior to, during, or after surgery.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Doctorate/Professional   none   Intern/Residency		Ambulatory health care services		91.1%	93.4%
2020 Estimated Employment:	180	Self-employed workers		6.7%	4.4%
2030 Projected Employment:	181	Hospitals		2.2%	2.2%
Growth Rate, 2020-2030:	0.6%				
Annual Average Openings:	5				
2021 Median Wage:	n/a				

## 29-1215 Family Medicine Physicians



Diagnose, treat, and provide preventive care to individuals and families across the lifespan. May refer patients to specialists when needed for further diagnosis or treatment. Excludes "General Internal Medicine Physicians" (29-1216) and "Pediatricians, General" (29-1221).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Doctorate/Professional   none   Intern/Residency</u>		Ambulatory health care services		80.2%	82.6%
2020 Estimated Employment:	748	Hospitals		12.2%	12.0%
2030 Projected Employment:	791	Self-employed workers		6.4%	4.2%
Growth Rate, 2020-2030:	5.7%				
Annual Average Openings:	25				
2021 Median Wage:	n/a				

## 29-1216 General Internal Medicine Physicians



Diagnose and provide nonsurgical treatment for a wide range of diseases and injuries of internal organ systems. Provide care mainly for adults and adolescents, and are based primarily in an outpatient care setting. Excludes "Family Medicine Physicians" (29-1215) and "Pediatricians, General" (29-1221).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Doctorate/Professional   none   Intern/Residency</u>		Ambulatory health care services		82.8%	83.8%
2020 Estimated Employment:	233	Hospitals		9.4%	10.5%
2030 Projected Employment:	228	Self-employed workers		6.4%	4.4%
Growth Rate, 2020-2030:	-2.1%	Social Assistance		1.3%	1.3%
Annual Average Openings:	7				
2021 Median Wage:	n/a				

## 29-1218 Obstetricians and Gynecologists



Provide medical care related to pregnancy or childbirth. Diagnose, treat, and help prevent diseases of women, particularly those affecting the reproductive system. May also provide general care to women. May perform both medical and gynecological surgery functions.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Doctorate/Professional   none   Intern/Residency</u>		Ambulatory health care services		88.0%	88.9%
2020 Estimated Employment:	92	Self-employed workers		6.5%	4.4%
2030 Projected Employment:	90	Hospitals		5.4%	6.7%
Growth Rate, 2020-2030:	-2.2%				
Annual Average Openings:	3				
2021 Median Wage:	n/a				

## 29-1221 Pediatricians, General



Diagnose, treat, and help prevent diseases and injuries in children. May refer patients to specialists for further diagnosis or treatment, as needed. Excludes "Family Medicine Physicians" (29-1215) and "General Internal Medicine Physicians" (29-1216).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Doctorate/Professional   none   Intern/Residency</u>		Ambulatory health care services		82.2%	82.7%
2020 Estimated Employment:	230	Hospitals		11.3%	12.4%
2030 Projected Employment:	226	Self-employed workers		6.5%	4.9%
Growth Rate, 2020-2030:	-1.7%				
Annual Average Openings:	7				
2021 Median Wage:	n/a				

29-1223 Psychiatrists 

Diagnose, treat, and help prevent mental disorders. Excludes “Clinical and Counseling Psychologists” (19-3033) and “School Psychologists” (19-3034).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Doctorate/Professional   none   Intern/Residency</u>		Ambulatory health care services		79.6%	81.6%
2020 Estimated Employment:	132	Hospitals		9.9%	9.2%
2030 Projected Employment:	152	Self-employed workers		5.3%	3.3%
Growth Rate, 2020-2030:	15.2%	Social Assistance		3.8%	4.6%
Annual Average Openings:	6	Colleges/universities/professional schools		1.5%	1.3%
<u>2021 Median Wage:</u>	n/a				

29-1228 Physicians, All Other; and Ophthalmologists, Except Pediatric 

This occupation includes the 2018 SOC occupations Cardiologists; Dermatologists; Emergency Medicine Physicians; Neurologists; Physicians, Pathologists; Radiologists; Physicians, All Other; and Ophthalmologists, Except Pediatric; and the 2010 SOC occupation Physicians and Surgeons, All Other.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Doctorate/Professional   none   Intern/Residency</u>		Ambulatory health care services		59.9%	62.0%
2020 Estimated Employment:	1,802	Hospitals		30.1%	30.3%
2030 Projected Employment:	1,898	Self-employed workers		5.7%	3.7%
Growth Rate, 2020-2030:	5.3%	Federal government		4.3%	4.0%
Annual Average Openings:	61				
<u>2021 Median Wage:</u>	n/a				

29-1248 Surgeons, Except Ophthalmologists 

This occupation includes the 2018 SOC occupations 29-1242 Orthopedic Surgeons, Except Pediatric; 29-1243 Pediatric Surgeons; and 29-1249 Surgeons, All Other; and the 2010 SOC occupation 29-1067 Surgeons.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Doctorate/Professional   none   Intern/Residency</u>		Ambulatory health care services		84.1%	85.5%
2020 Estimated Employment:	465	Hospitals		8.2%	9.2%
2030 Projected Employment:	447	Self-employed workers		6.5%	4.0%
Growth Rate, 2020-2030:	-3.9%	Management of companies/enterprises		1.3%	1.3%
Annual Average Openings:	10				
<u>2021 Median Wage:</u>	n/a				

29-1292 Dental Hygienists 

Administer oral hygiene care to patients. Assess patient oral hygiene problems or needs and maintain health records. Advise patients on oral health maintenance and disease prevention. May provide advanced care such as providing fluoride treatment or administering topical anesthesia.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Associate's degree   none   none</u>		Ambulatory health care services		98.8%	98.9%
2020 Estimated Employment:	1,451				
2030 Projected Employment:	1,624				
Growth Rate, 2020-2030:	11.9%				
Annual Average Openings:	110				
<u>2021 Median Wage:</u>	n/a				

**29-1298 Acupuncturists and Healthcare Diagnosing or Treating Practitioners, All Other**

This occupation includes the 2018 SOC occupations 29-1291 Acupuncturists and 29-1299 Healthcare Diagnosing or Treating Practitioners, All Other and the 2010 SOC occupation 29-1199 Health Diagnosing and Treating Practitioners, All Other.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Master's degree   none   none</u>		Ambulatory health care services		43.2%	47.9%
2020 Estimated Employment:	146	Self-employed workers		28.1%	25.2%
2030 Projected Employment:	163	Hospitals		12.3%	11.7%
Growth Rate, 2020-2030:	11.6%	Federal government		9.6%	8.6%
Annual Average Openings:	11	Nursing/residential care facilities		3.4%	3.1%
<u>2021 Median Wage:</u>	<u>n/a</u>	Local government		3.4%	3.7%

**29-2010 Clinical Laboratory Technologists and Technicians**

This occupation includes the 2018 and 2010 SOC occupations 29-2011 Medical and Clinical Laboratory Technologists and 29-2012 Medical and Clinical Laboratory Technicians.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   none</u>		Hospitals		77.9%	76.8%
2020 Estimated Employment:	716	Ambulatory health care services		13.0%	14.5%
2030 Projected Employment:	768	Colleges/universities/professional schools		5.9%	5.9%
Growth Rate, 2020-2030:	7.3%	Federal government		2.2%	2.0%
Annual Average Openings:	52				
<u>2021 Median Hourly Wage:</u>	<u>\$35.88</u>				

**29-2031 Cardiovascular Technologists and Technicians**

Conduct tests on pulmonary or cardiovascular systems of patients for diagnostic, therapeutic, or research purposes. May conduct or assist in electrocardiograms, cardiac catheterizations, pulmonary functions, lung capacity, and similar tests.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Associate's degree   none   none</u>		Hospitals		90.2%	89.9%
2020 Estimated Employment:	297	Ambulatory health care services		7.4%	7.9%
2030 Projected Employment:	317	Self-employed workers		2.4%	2.2%
Growth Rate, 2020-2030:	6.7%				
Annual Average Openings:	23				
<u>2021 Median Hourly Wage:</u>	<u>\$36.06</u>				

**29-2032 Diagnostic Medical Sonographers**

Produce ultrasonic recordings of internal organs for use by physicians. Includes vascular technologists. Excludes "Cardiovascular Technologists and Technicians" (29-2031).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Associate's degree   none   none</u>		Hospitals		76.9%	76.3%
2020 Estimated Employment:	238	Ambulatory health care services		21.9%	23.3%
2030 Projected Employment:	279	Self-employed workers		1.3%	0.4%
Growth Rate, 2020-2030:	17.2%				
Annual Average Openings:	22				
<u>2021 Median Hourly Wage:</u>	<u>\$38.77</u>				

## 29-2033 Nuclear Medicine Technologists



Prepare, administer, and measure radioactive isotopes in therapeutic, diagnostic, and tracer studies using radioisotope equipment. Prepare stock solutions of radioactive materials and calculate doses to be administered. Subject patients to radiation. Execute blood volume, red cell survival, and fat absorption studies using standard laboratory techniques.

**Entry-Level Education, Experience, & Training:**

Associate's degree   none   none	
2020 Estimated Employment:	66
2030 Projected Employment:	70
Growth Rate, 2020-2030:	6.1%
Annual Average Openings:	5
2021 Median Hourly Wage:	\$39.04

**Employing Industries**

	2020 Share	2030 Share
Hospitals	89.4%	88.6%
Ambulatory health care services	7.6%	8.6%
Self-employed workers	3.0%	2.9%

## 29-2034 Radiologic Technologists and Technicians



Take x-rays and CAT scans or administer nonradioactive materials into patient's bloodstream for diagnostic or research purposes. Includes radiologic technologists and technicians who specialize in other scanning modalities. Excludes "Diagnostic Medical Sonographers" (29-2032) and "Magnetic Resonance Imaging Technologists" (29-2035).

**Entry-Level Education, Experience, & Training:**

Associate's degree   none   none	
2020 Estimated Employment:	938
2030 Projected Employment:	1,010
Growth Rate, 2020-2030:	7.7%
Annual Average Openings:	76
2021 Median Hourly Wage:	\$30.69

**Employing Industries**

	2020 Share	2030 Share
Hospitals	73.5%	72.2%
Ambulatory health care services	23.2%	24.7%
Federal government	1.6%	1.5%

## 29-2035 Magnetic Resonance Imaging Technologists



Operate Magnetic Resonance Imaging (MRI) scanners. Monitor patient safety and comfort, and view images to ensure quality. Interview patient, explain MRI process, and position patient on table. Enter data into computer such as patient history, anatomy to be scanned, orientation, and position of entry. May administer gadolinium contrast dosage intravenously.

**Entry-Level Education, Experience, & Training:**

Associate's degree   < 5 yrs   none	
2020 Estimated Employment:	313
2030 Projected Employment:	339
Growth Rate, 2020-2030:	8.3%
Annual Average Openings:	26
2021 Median Hourly Wage:	\$38.24

**Employing Industries**

	2020 Share	2030 Share
Hospitals	61.0%	59.9%
Ambulatory health care services	33.9%	36.9%
Self-employed workers	4.5%	2.7%

## 29-2040 Emergency Medical Technicians and Paramedics



This occupation includes the 2018 SOC occupations 29-2042 Emergency Medical Technicians and 29-2043 Paramedics and the 2010 SOC occupation 29-2041 Emergency Medical Technicians and Paramedics.

**Entry-Level Education, Experience, & Training:**

Postsecondary   none   none	
2020 Estimated Employment:	1,153
2030 Projected Employment:	1,279
Growth Rate, 2020-2030:	10.9%
Annual Average Openings:	91
2021 Median Wage:	n/a

**Employing Industries**

	2020 Share	2030 Share
Ambulatory health care services	54.7%	56.2%
Hospitals	22.8%	21.7%
Local government	21.9%	21.4%

## 29-2051 Dietetic Technicians



Assist in the provision of food service and nutritional programs, under the supervision of a dietitian. May plan and produce meals based on established guidelines, teach principles of food and nutrition, or counsel individuals.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Associate's degree   none   none		Hospitals		70.4%	68.8%
2020 Estimated Employment:	71	Nursing/residential care facilities		11.3%	11.7%
2030 Projected Employment:	77	Ambulatory health care services		8.5%	9.1%
Growth Rate, 2020-2030:	8.5%	Social Assistance		7.0%	7.8%
Annual Average Openings:	6	Food services/drinking places		n	n
2021 Median Hourly Wage:	\$14.02	State government		n	n

## 29-2052 Pharmacy Technicians



Prepare medications under the direction of a pharmacist. May measure, mix, count out, label, and record amounts and dosages of medications according to prescription orders.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   none   Moderate OJT		Health/personal care stores		42.7%	40.5%
2020 Estimated Employment:	1,897	Hospitals		17.3%	16.8%
2030 Projected Employment:	2,070	Non-store retailers		13.1%	16.4%
Growth Rate, 2020-2030:	9.1%	Food/beverage stores		10.1%	10.0%
Annual Average Openings:	156	Wholesale trade		6.1%	5.9%
2021 Median Hourly Wage:	\$17.70	Ambulatory health care services		4.2%	4.4%

## 29-2053 Psychiatric Technicians



Care for individuals with mental or emotional conditions or disabilities, following instructions of physicians or other health practitioners. Monitor patients' physical and emotional well-being and report to medical staff. May participate in rehabilitation and treatment programs, help with personal hygiene, and administer oral or injectable medications.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Postsecondary   < 5 yrs   Short OJT		Hospitals		82.8%	81.3%
2020 Estimated Employment:	29	Ambulatory health care services		17.2%	18.8%
2030 Projected Employment:	32				
Growth Rate, 2020-2030:	10.3%				
Annual Average Openings:	2				
2021 Median Wage:	n/a				

## 29-2055 Surgical Technologists



Assist in operations, supervised by surgeons, registered nurses, or other surgical personnel. Help set up operating room, prepare and transport patients for surgery, adjust lights and equipment, pass instruments and supplies to surgeons or surgical assistants, hold retractors, cut sutures, and help count sponges, needles, supplies, and instruments.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Postsecondary   none   none		Hospitals		79.6%	78.3%
2020 Estimated Employment:	440	Ambulatory health care services		17.1%	18.1%
2030 Projected Employment:	474	Employment services		2.7%	2.7%
Growth Rate, 2020-2030:	7.7%				
Annual Average Openings:	35				
2021 Median Hourly Wage:	\$24.93				

29-2056 Veterinary Technologists and Technicians 

Perform medical tests in a laboratory for use in treatment and diagnosis of diseases in animals. Prepare vaccines and serums for prevention of diseases. Prepare tissue samples, take blood samples, and execute lab tests, such as urinalysis and blood counts. Clean and sterilize instruments and maintain equipment. May assist veterinarian during surgery.

**Entry-Level Education, Experience, & Training:**

<u>Associate's degree   none   none</u>	
2020 Estimated Employment:	961
2030 Projected Employment:	1,168
Growth Rate, 2020-2030:	21.5%
Annual Average Openings:	96
<u>2021 Median Hourly Wage:</u>	<u>\$18.69</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Other professional/scientific/technical services	84.9%	84.5%
Religious/granting/civic/professional orgs	3.2%	3.3%
Colleges/universities/professional schools	2.6%	2.2%

29-2057 Ophthalmic Medical Technicians 

Assist ophthalmologists by performing ophthalmic clinical functions. May administer eye exams, administer eye medications, and instruct the patient in care and use of corrective lenses.

**Entry-Level Education, Experience, & Training:**

<u>Postsecondary   none   none</u>	
2020 Estimated Employment:	376
2030 Projected Employment:	427
Growth Rate, 2020-2030:	13.6%
Annual Average Openings:	33
<u>2021 Median Hourly Wage:</u>	<u>\$18.23</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Ambulatory health care services	66.2%	67.5%
Hospitals	33.2%	32.1%

29-2061 Licensed Practical and Licensed Vocational Nurses 

Care for ill, injured, or convalescing patients or persons with disabilities in hospitals, nursing homes, clinics, private homes, group homes, and similar institutions. May work under the supervision of a registered nurse. Licensing required.

**Entry-Level Education, Experience, & Training:**

<u>Postsecondary   none   none</u>	
2020 Estimated Employment:	2,095
2030 Projected Employment:	2,264
Growth Rate, 2020-2030:	8.1%
Annual Average Openings:	182
<u>2021 Median Hourly Wage:</u>	<u>\$28.55</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Nursing/residential care facilities	43.2%	41.0%
Ambulatory health care services	31.3%	33.7%
Hospitals	8.5%	8.4%
Local government	7.1%	7.1%
Employment services	3.9%	4.0%
State government	2.0%	1.9%

29-2081 Opticians, Dispensing 

Measure and fit lenses and frames based on optical prescription. Assist client in frame selection or inserting, removing, and caring for contact lenses. Measure client for eyeglasses and fit to face and eye measurements. Prepare work order for optical lab and verify finished lenses. Adjust frame and lens position to client. May reshape frames.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Long OJT</u>	
2020 Estimated Employment:	331
2030 Projected Employment:	356
Growth Rate, 2020-2030:	7.6%
Annual Average Openings:	28
<u>2021 Median Hourly Wage:</u>	<u>\$18.34</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Ambulatory health care services	76.7%	77.8%
General merchandise stores	10.9%	9.6%
Health/personal care stores	9.1%	9.3%
Self-employed workers	2.1%	2.0%
Hospitals	1.2%	1.4%



**29-2091 Orthotists and Prosthetists**

Design, measure, fit, and adapt orthopedic braces, appliances or prostheses, such as limbs or facial parts for patients with disabling conditions.

**Entry-Level Education, Experience, & Training:**

<u>Master's degree   none   Intern/Residency</u>	
2020 Estimated Employment:	48
2030 Projected Employment:	57
Growth Rate, 2020-2030:	18.8%
Annual Average Openings:	4
<u>2021 Median Hourly Wage:</u>	<u>\$37.24</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Miscellaneous manufacturing	85.4%	86.0%
Ambulatory health care services	6.3%	7%
Federal government	4.2%	3.5%
Hospitals	n	n
Self-employed workers	n	n

**29-2092 Hearing Aid Specialists**

Select and fit hearing aids for customers. Administer and interpret tests of hearing. Assess hearing instrument efficacy. Take ear impressions and prepare, design, and modify ear molds. Excludes "Audiologists" (29-1181).

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Moderate OJT</u>	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
<u>2021 Median Hourly Wage:</u>	<u>\$27.16</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Ambulatory health care services	n	n
General merchandise stores	n	n
Health/personal care stores	n	n

**29-2098 Medical Dosimetrists, Medical Records Specialists, Health Technologists and Technicians, All Other**

This occupation includes the 2018 SOC occupations Medical Dosimetrists; Medical Records Specialists; and Health Technologists and Technicians, All Other; and the 2010 SOC occupations Respiratory Therapy Technicians; Medical Records and Health Information Technicians; and Health Technologists and Technicians, All Other.

**Entry-Level Education, Experience, & Training:**

<u>Postsecondary   none   none</u>	
2020 Estimated Employment:	1,278
2030 Projected Employment:	1,384
Growth Rate, 2020-2030:	8.3%
Annual Average Openings:	104
<u>2021 Median Wage:</u>	<u>n/a</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Hospitals	42.5%	40.8%
Ambulatory health care services	31.1%	32.7%
Office administrative services	3.7%	4.0%
Insurance carriers/related activities	3.6%	3.7%
Nursing/residential care facilities	3.1%	2.8%
Management of companies/enterprises	2.9%	2.7%

**29-9091 Athletic Trainers**

Evaluate and treat musculoskeletal injuries or illnesses. Provide preventive, therapeutic, emergency, and rehabilitative care. Excludes "Physical Therapists" (29-1123).

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	183
2030 Projected Employment:	228
Growth Rate, 2020-2030:	24.6%
Annual Average Openings:	19
<u>2021 Median Annual Wage:</u>	<u>\$47,366</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Colleges/universities/professional schools	34.4%	35.5%
Ambulatory health care services	26.2%	25.9%
Elementary/secondary schools (public/private)	13.7%	13.2%
Hospitals	10.9%	9.2%
Other schools/instruction	10.4%	12.3%
Self-employed workers	2.2%	2.2%

**29-9092 Genetic Counselors**



Assess individual or family risk for a variety of inherited conditions, such as genetic disorders and birth defects. Provide information to healthcare providers or individuals and families concerned with the risk of inherited conditions. Provide advice to support informed decisionmaking and coping methods for those at risk. May conduct genetic research.

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
<u>Master's degree   none   none</u>	Ambulatory health care services	n	n
2020 Estimated Employment: n	Hospitals	n	n
2030 Projected Employment: n			
Growth Rate, 2020-2030: n			
Annual Average Openings: n			
<u>2021 Median Wage: n</u>			

**29-9098 Health Information Technologists, Medical Registrars, Surgical Assistants, & Healthcare Practitioners,**

This occupation includes the 2018 SOC occupations 29-9021 Health Information Technologists and Medical Registrars; 29-9093 Surgical Assistants; and 29-9099 Healthcare Practitioners and Technical Workers, All Other; and the 2010 SOC occupation 29-9099 Healthcare Practitioners and Technical Workers, All Other.

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
<u>Postsecondary   none   none</u>	Hospitals	42.5%	40.6%
2020 Estimated Employment: 525	Ambulatory health care services	38.5%	40.1%
2030 Projected Employment: 586	Insurance carriers/related activities	3.2%	3.4%
Growth Rate, 2020-2030: 11.6%	Nursing/residential care facilities	3.2%	3.2%
Annual Average Openings: 45	Self-employed workers	2.5%	2.6%
<u>2021 Median Wage: n/a</u>	Religious/granting/civic/professional orgs	2.5%	2.4%

**31-1120 Home Health and Personal Care Aides**



This occupation includes the 2018 SOC occupations 31-1121 Home Health Aides and 31-1122 Personal Care Aides and the 2010 SOC occupations 31-1011 Home Health Aides and 39-9021 Personal Care Aides.

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Short OJT</u>	Social Assistance	46.0%	50.4%
2020 Estimated Employment: 8,408	Nursing/residential care facilities	22.9%	20.5%
2030 Projected Employment: 10,965	Ambulatory health care services	13.1%	12.9%
Growth Rate, 2020-2030: 30.4%	Private households	8.7%	7.8%
Annual Average Openings: 1,424	Religious/granting/civic/professional orgs	2.6%	2.2%
<u>2021 Median Hourly Wage: \$14.12</u>	Self-employed workers	2.5%	2.6%

**31-1131 Nursing Assistants**



Provide or assist with basic care or support under the direction of onsite licensed nursing staff. Perform duties such as monitoring health status, feeding, bathing, dressing, grooming, toileting, or ambulation of patients in a health or nursing facility. May administer medication and other health-related tasks. Includes nursing aides and attendants.

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
<u>Postsecondary   none   none</u>	Nursing/residential care facilities	45.4%	43.5%
2020 Estimated Employment: 7,743	Hospitals	26.7%	26.7%
2030 Projected Employment: 8,272	Ambulatory health care services	9.8%	11.0%
Growth Rate, 2020-2030: 6.8%	Local government	9.5%	9.6%
Annual Average Openings: 1,019	State government	2.8%	2.7%
<u>2021 Median Hourly Wage: \$17.68</u>	Social Assistance	1.9%	2.4%

**31-1132 Orderlies**



Transport patients to areas such as operating rooms or x-ray rooms using wheelchairs, stretchers, or moveable beds. May maintain stocks of supplies or clean and transport equipment. Excludes “Nursing Assistants” (31-1131). Psychiatric orderlies are included in “Psychiatric Aides” (31-1133).

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Short OJT	
2020 Estimated Employment:	114
2030 Projected Employment:	122
Growth Rate, 2020-2030:	7%
Annual Average Openings:	16
2021 Median Hourly Wage:	\$14.62

**Employing Industries**

	2020 Share	2030 Share
Hospitals	91.2%	90.2%
Amusements/gambling/recreation industries	n	n
Facilities support services	n	n
Nursing/residential care facilities	n	n

**31-1133 Psychiatric Aides**



Assist mentally impaired or emotionally disturbed patients, working under direction of nursing and medical staff. May assist with daily living activities, lead patients in educational and recreational activities, or accompany patients to and from examinations and treatments. May restrain violent patients. Includes psychiatric orderlies.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Short OJT	
2020 Estimated Employment:	408
2030 Projected Employment:	429
Growth Rate, 2020-2030:	5.1%
Annual Average Openings:	53
2021 Median Hourly Wage:	\$20.54

**Employing Industries**

	2020 Share	2030 Share
Hospitals	95.6%	95.8%
State government	4.4%	4.2%

**31-2011 Occupational Therapy Assistants**



Assist occupational therapists in providing occupational therapy treatments and procedures. May, in accordance with state laws, assist in development of treatment plans, carry out routine functions, direct activity programs, and document the progress of treatments. Generally requires formal training.

**Entry-Level Education, Experience, & Training:**

Associate's degree   none   none	
2020 Estimated Employment:	189
2030 Projected Employment:	261
Growth Rate, 2020-2030:	38.1%
Annual Average Openings:	34
2021 Median Hourly Wage:	\$30.28

**Employing Industries**

	2020 Share	2030 Share
Ambulatory health care services	60.9%	69.4%
Elementary/secondary schools (public/private)	14.3%	11.1%
Nursing/residential care facilities	10.6%	8.1%
Hospitals	10.1%	8.1%
Employment services	3.2%	2.3%

**31-2012 Occupational Therapy Aides**



Under close supervision of an occupational therapist or occupational therapy assistant, perform only delegated, selected, or routine tasks in specific situations. These duties include preparing patient and treatment room.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Short OJT	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Hourly Wage:	\$17.47

**Employing Industries**

	2020 Share	2030 Share
Ambulatory health care services	n	n
Hospitals	n	n
Local government	n	n

**31-2021 Physical Therapist Assistants**

Assist physical therapists providing physical therapy treatments and procedures. In accordance with state law, assist in developing treatment plans, carry out routine functions, document progress, and modify treatments based on patient status and in the scope of treatment plans established by a physical therapist. Generally requires formal training.

**Entry-Level Education, Experience, & Training:**

<u>Associate's degree   none   none</u>	
2020 Estimated Employment:	334
2030 Projected Employment:	453
Growth Rate, 2020-2030:	35.6%
Annual Average Openings:	59
<u>2021 Median Hourly Wage:</u>	<u>\$29.60</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Ambulatory health care services	60.8%	67.6%
Hospitals	24.9%	20.1%
Nursing/residential care facilities	8.7%	7.5%
Employment services	3.9%	3.1%

**31-2022 Physical Therapist Aides**

Under close supervision of a physical therapist or physical therapy assistant, perform only delegated, selected, or routine tasks in specific situations. These duties include preparing the patient and the treatment area.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Short OJT</u>	
2020 Estimated Employment:	110
2030 Projected Employment:	136
Growth Rate, 2020-2030:	23.6%
Annual Average Openings:	17
<u>2021 Median Hourly Wage:</u>	<u>\$14.90</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Hospitals	36.4%	33.1%
Ambulatory health care services	n	n
Nursing/residential care facilities	n	n

**31-9011 Massage Therapists**

Perform therapeutic massages of soft tissues and joints. May assist in the assessment of range of motion and muscle strength, or propose client therapy plans.

**Entry-Level Education, Experience, & Training:**

<u>Postsecondary   none   none</u>	
2020 Estimated Employment:	2,000
2030 Projected Employment:	2,368
Growth Rate, 2020-2030:	18.4%
Annual Average Openings:	279
<u>2021 Median Hourly Wage:</u>	<u>\$23.07</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Self-employed workers	81.7%	77.8%
Ambulatory health care services	7.1%	8.5%
Personal and laundry services	6.5%	8.5%
Amusements/gambling/recreation industries	2.1%	2.6%
Accommodation	n	n
Hospitals	n	n

**31-9091 Dental Assistants**

Perform limited clinical duties under the direction of a dentist. Prepare and sterilize equipment, prepare patients for treatment, assist the dentist during treatment, and provide patients with instructions for oral healthcare procedures. May schedule appointments, and maintain medical records, or billing and coding information for insurance purposes.

**Entry-Level Education, Experience, & Training:**

<u>Postsecondary   none   none</u>	
2020 Estimated Employment:	1,171
2030 Projected Employment:	1,311
Growth Rate, 2020-2030:	12%
Annual Average Openings:	157
<u>2021 Median Hourly Wage:</u>	<u>\$22.89</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Ambulatory health care services	98.8%	98.9%

**31-9092 Medical Assistants**



Perform administrative or select clinical duties under the direction of a physician. Schedule appointments, and maintain medical records, or billing and coding information for insurance purposes. Take and record vital signs and medical histories, prepare patients for examination, draw blood, or administer medications as directed by physician.

**Entry-Level Education, Experience, & Training:**

Postsecondary   none   none	
2020 Estimated Employment:	2,864
2030 Projected Employment:	3,399
Growth Rate, 2020-2030:	18.7%
Annual Average Openings:	416
2021 Median Hourly Wage:	\$18.37

**Employing Industries**

	2020 Share	2030 Share
Ambulatory health care services	75.0%	75.6%
Hospitals	23.3%	22.8%

**31-9093 Medical Equipment Preparers**



Prepare, sterilize, install, or clean laboratory or healthcare equipment. May perform routine laboratory tasks and operate or inspect equipment.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	318
2030 Projected Employment:	340
Growth Rate, 2020-2030:	6.9%
Annual Average Openings:	42
2021 Median Hourly Wage:	\$18.40

**Employing Industries**

	2020 Share	2030 Share
Hospitals	82.1%	81.5%
Ambulatory health care services	9.4%	10.3%
Colleges/universities/professional schools	6.6%	6.5%

**31-9094 Medical Transcriptionists**



Transcribe medical reports recorded by physicians or other practitioners, covering office visits, emergency room visits, diagnostic imaging studies, operations, chart reviews, and final summaries. Transcribe dictated reports and translate abbreviations. Edit and return reports, printed or electronically, for review, correction, or signature.

**Entry-Level Education, Experience, & Training:**

Postsecondary   none   none	
2020 Estimated Employment:	326
2030 Projected Employment:	337
Growth Rate, 2020-2030:	3.4%
Annual Average Openings:	47
2021 Median Hourly Wage:	\$18.37

**Employing Industries**

	2020 Share	2030 Share
Office administrative services	55.2%	63.5%
Ambulatory health care services	20.6%	16.0%
Hospitals	12.9%	9.5%
Business support services	6.4%	7.4%
Self-employed workers	4.9%	3.6%

**31-9095 Pharmacy Aides**



Record drugs delivered to the pharmacy, store incoming merchandise, and inform the supervisor of stock needs. May operate cash register and accept prescriptions for filling.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Short OJT	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Wage:	n

**Employing Industries**

	2020 Share	2030 Share
Food/beverage stores	n	n
Health/personal care stores	n	n
Non-store retailers	n	n

**31-9096 Veterinary Assistants and Laboratory Animal Caretakers**

Feed, water, and examine pets or nonfarm animals for signs of illness, disease, or injury in labs and animal hospitals. Clean and disinfect cages and work areas, and sterilize lab and surgical equipment. Provide postoperative care, administer medication, or prepare lab samples under supervision of veterinary technicians, veterinarians, or scientists.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Short OJT</u>	
2020 Estimated Employment:	480
2030 Projected Employment:	580
Growth Rate, 2020-2030:	20.8%
Annual Average Openings:	94
2021 Median Hourly Wage:	\$14.48

**Employing Industries**

	2020 Share	2030 Share
Other professional/scientific/technical services	93.8%	94.0%
Animal production/aquaculture	2.1%	1.9%
Chemical manufacturing	1.7%	1.7%

**31-9097 Phlebotomists**

Draw blood for tests, transfusions, donations, or research. May explain the procedure to patients and assist in the recovery of patients with adverse reactions.

**Entry-Level Education, Experience, & Training:**

<u>Postsecondary   none   none</u>	
2020 Estimated Employment:	719
2030 Projected Employment:	839
Growth Rate, 2020-2030:	16.7%
Annual Average Openings:	103
2021 Median Hourly Wage:	\$18.40

**Employing Industries**

	2020 Share	2030 Share
Hospitals	62.0%	57.9%
Ambulatory health care services	29.1%	33.1%
Office administrative services	8.3%	8.5%

**31-9099 Healthcare Support Workers, All Other**

All healthcare support workers not listed separately.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   none</u>	
2020 Estimated Employment:	401
2030 Projected Employment:	447
Growth Rate, 2020-2030:	11.5%
Annual Average Openings:	57
2021 Median Hourly Wage:	\$17.47

**Employing Industries**

	2020 Share	2030 Share
Ambulatory health care services	27.4%	30.2%
Nursing/residential care facilities	26.9%	26.0%
Hospitals	17.0%	16.1%
Elementary/secondary schools (public/private)	7.2%	6.9%
Local government	7.2%	7.2%
Federal government	6.7%	5.8%

**33-1011 First-Line Supervisors of Correctional Officers**

Directly supervise and coordinate activities of correctional officers and jailers.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   &lt; 5 yrs   none</u>	
2020 Estimated Employment:	110
2030 Projected Employment:	111
Growth Rate, 2020-2030:	0.9%
Annual Average Openings:	9
2021 Median Hourly Wage:	\$33.15

**Employing Industries**

	2020 Share	2030 Share
Local government	55.5%	56.8%
State government	32.7%	31.5%
Federal government	11.8%	11.7%

**33-1012 First-Line Supervisors of Police and Detectives**

Directly supervise and coordinate activities of members of police force.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   &lt; 5 yrs   Moderate OJT</u>	
2020 Estimated Employment:	586
2030 Projected Employment:	634
Growth Rate, 2020-2030:	8.2%
Annual Average Openings:	44
<u>2021 Median Hourly Wage:</u>	<u>\$41.00</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Local government	92.3%	92.7%
State government	4.3%	3.9%
Federal government	2.2%	2.1%
Colleges/universities/professional schools	1.2%	1.3%

**33-1021 First-Line Supervisors of Fire Fighting and Prevention Workers**

Directly supervise and coordinate activities of workers engaged in firefighting and fire prevention and control.

**Entry-Level Education, Experience, & Training:**

<u>Postsecondary   &lt; 5 yrs   Moderate OJT</u>	
2020 Estimated Employment:	430
2030 Projected Employment:	471
Growth Rate, 2020-2030:	9.5%
Annual Average Openings:	33
<u>2021 Median Hourly Wage:</u>	<u>\$37.98</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Local government	91.6%	90.9%
Other support services	6.1%	7.0%
State government	1.9%	1.7%

**33-1090 Miscellaneous First-Line Supervisors, Protective Service Workers**

This occupation includes the 2018 SOC occupations 33-1091 First-Line Supervisors of Security Workers and 33-1099 First-Line Supervisors of Protective Service Workers, All Other and the 2010 SOC occupation 33-1099 First-Line Supervisors of Protective Service Workers, All Other.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   &lt; 5 yrs   none</u>	
2020 Estimated Employment:	209
2030 Projected Employment:	221
Growth Rate, 2020-2030:	5.7%
Annual Average Openings:	21
<u>2021 Median Wage:</u>	<u>n/a</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Investigation/security services	20.6%	21.7%
Management of companies/enterprises	7.7%	6.8%
Federal government	7.7%	6.8%
Colleges/universities/professional schools	7.2%	7.2%
Hospitals	7.2%	6.8%

**33-2011 Firefighters**

Control and extinguish fires or respond to emergency situations where life, property, or the environment is at risk. Duties may include fire prevention, emergency medical service, hazardous material response, search and rescue, and disaster assistance.

**Entry-Level Education, Experience, & Training:**

<u>Postsecondary   none   Long OJT</u>	
2020 Estimated Employment:	2,453
2030 Projected Employment:	2,669
Growth Rate, 2020-2030:	8.8%
Annual Average Openings:	210
<u>2021 Median Hourly Wage:</u>	<u>\$24.17</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Local government	97.4%	97.3%
State government	1.4%	1.3%
	1.1%	1.4%

**33-2021 Fire Inspectors and Investigators**

Inspect buildings to detect fire hazards and enforce local ordinances and state laws, or investigate and gather facts to determine cause of fires and explosions.

**Entry-Level Education, Experience, & Training:**

Postsecondary   5+ yrs   Moderate OJT	
2020 Estimated Employment:	37
2030 Projected Employment:	39
Growth Rate, 2020-2030:	5.4%
Annual Average Openings:	4
2021 Median Hourly Wage:	\$31.43

**Employing Industries**

	2020 Share	2030 Share
Local government	73.0%	74.4%
State government	24.3%	23.1%
Self-employed workers	2.7%	2.6%

**33-2022 Forest Fire Inspectors and Prevention Specialists**

Enforce fire regulations, inspect forest for fire hazards, and recommend forest fire prevention or control measures. May report forest fires and weather conditions.

**Entry-Level Education, Experience, & Training:**

HS Diploma   < 5 yrs   Moderate OJT	
2020 Estimated Employment:	36
2030 Projected Employment:	44
Growth Rate, 2020-2030:	22.2%
Annual Average Openings:	5
2021 Median Hourly Wage:	\$15.64

**Employing Industries**

	2020 Share	2030 Share
State government	88.9%	86.4%
Local government	11.1%	13.6%

**33-3011 Bailiffs**

Maintain order in courts of law.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	67
2030 Projected Employment:	69
Growth Rate, 2020-2030:	3%
Annual Average Openings:	7
2021 Median Hourly Wage:	\$14.86

**Employing Industries**

	2020 Share	2030 Share
Local government	100.0%	100.0%

**33-3012 Correctional Officers and Jailers**

Guard inmates in penal or rehabilitative institutions in accordance with established regulations and procedures. May guard prisoners in transit between jail, courtroom, prison, or other point. Includes deputy sheriffs and police who spend the majority of their time guarding prisoners in correctional institutions.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	1,164
2030 Projected Employment:	1,109
Growth Rate, 2020-2030:	-4.7%
Annual Average Openings:	99
2021 Median Hourly Wage:	\$24.22

**Employing Industries**

	2020 Share	2030 Share
Local government	56.5%	58.1%
State government	36.4%	34.7%
Federal government	7.0%	7.2%



**33-3021 Detectives and Criminal Investigators**

Conduct investigations related to suspected violations of federal, state, or local laws to prevent or solve crimes. Excludes "Private Detectives and Investigators" (33-9021).

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   &lt; 5 yrs   Moderate OJT</u>	
2020 Estimated Employment:	374
2030 Projected Employment:	390
Growth Rate, 2020-2030:	4.3%
Annual Average Openings:	30
<u>2021 Median Hourly Wage:</u>	<u>\$38.53</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Local government	51.6%	53.9%
State government	28.9%	27.7%
Federal government	19.5%	18.5%

**33-3031 Fish and Game Wardens**

Patrol assigned area to prevent fish and game law violations. Investigate reports of damage to crops or property by wildlife. Compile biological data.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   Moderate OJT</u>	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
<u>2021 Median Wage:</u>	<u>n</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
State government	n	n

**33-3041 Parking Enforcement Workers**

Patrol assigned area, such as public parking lot or city streets to issue tickets to overtime parking violators and illegally parked vehicles.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Short OJT</u>	
2020 Estimated Employment:	60
2030 Projected Employment:	42
Growth Rate, 2020-2030:	-30%
Annual Average Openings:	3
<u>2021 Median Hourly Wage:</u>	<u>\$19.25</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Local government	83.3%	78.6%
Colleges/universities/professional schools	6.7%	7.1%
Elementary/secondary schools (public/private)	5.0%	7.1%
Hospitals	5.0%	7.1%

**33-3051 Police and Sheriff's Patrol Officers**

Maintain order and protect life and property by enforcing local, tribal, state, or federal laws and ordinances. Duties include patrolling a specific area; directing traffic; issuing traffic summonses; investigating accidents; apprehending and arresting suspects, or serving legal processes of courts. Includes officers working at educational institutions.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Moderate OJT</u>	
2020 Estimated Employment:	2,805
2030 Projected Employment:	3,011
Growth Rate, 2020-2030:	7.3%
Annual Average Openings:	242
<u>2021 Median Hourly Wage:</u>	<u>\$29.87</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Local government	82.5%	83.6%
State government	14.9%	14.0%
Colleges/universities/professional schools	1.7%	1.7%

**33-9011 Animal Control Workers**

Handle animals for the purpose of investigations of mistreatment, or control of abandoned, dangerous, or unattended animals.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Moderate OJT</u>	
2020 Estimated Employment:	50
2030 Projected Employment:	53
Growth Rate, 2020-2030:	6%
Annual Average Openings:	5
<u>2021 Median Hourly Wage:</u>	<u>\$19.09</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Local government	92.0%	92.5%
Religious/granting/civic/professional orgs	8.0%	7.6%

**33-9021 Private Detectives and Investigators**

Gather, analyze, compile, and report information regarding individuals or organizations to clients, or detect occurrences of unlawful acts or infractions of rules in private establishment.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   &lt; 5 yrs   Moderate OJT</u>	
2020 Estimated Employment:	154
2030 Projected Employment:	170
Growth Rate, 2020-2030:	10.4%
Annual Average Openings:	16
<u>2021 Median Hourly Wage:</u>	<u>\$31.10</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Investigation/security services	42.2%	44.7%
Management of companies/enterprises	24.7%	22.4%
Credit intermediation/related activities	7.1%	7.1%
General merchandise stores	6.5%	5.3%
Self-employed workers	3.9%	4.1%

**33-9031 Gaming Surveillance Officers and Gaming Investigators**

Observe gambling operation for irregular activities such as cheating or theft by either employees or patrons. Investigate potential threats to gambling assets such as money, chips, and gambling equipment. Act as oversight and security agent for management and customers.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   &lt; 5 yrs   Moderate OJT</u>	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
<u>2021 Median Wage:</u>	<u>n</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Amusements/gambling/recreation industries	n	n

**33-9032 Security Guards**

Guard, patrol, or monitor premises to prevent theft, violence, or infractions of rules. May operate x-ray and metal detector equipment. Excludes "Police Officers" (33-3050) and "Transportation Security Screeners" (33-9093).

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Short OJT</u>	
2020 Estimated Employment:	2,278
2030 Projected Employment:	2,526
Growth Rate, 2020-2030:	10.9%
Annual Average Openings:	338
<u>2021 Median Hourly Wage:</u>	<u>\$16.52</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Investigation/security services	55.7%	56.1%
Hospitals	12.7%	11.5%
Food services/drinking places	5.3%	6.3%
Colleges/universities/professional schools	3.1%	2.9%
Elementary/secondary schools (public/private)	2.4%	2.2%
State government	2.4%	2.0%

**33-9091 Crossing Guards and Flaggers**

Guide or control vehicular or pedestrian traffic at such places as streets, schools, railroad crossings, or construction sites.

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Short OJT</u>	
2020 Estimated Employment:	488
2030 Projected Employment:	594
Growth Rate, 2020-2030:	21.7%
Annual Average Openings:	118
<u>2021 Median Hourly Wage:</u>	<u>\$17.59</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Other support services	64.3%	68.0%
Local government	23.0%	20.5%
Heavy/civil engineering construction	6.6%	5.9%
Investigation/security services	4.1%	3.9%
Elementary/secondary schools (public/private)	1.2%	1.0%

**33-9092 Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers**

Monitor recreational areas, such as pools, beaches, or ski slopes, to provide assistance and protection to participants.

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Short OJT</u>	
2020 Estimated Employment:	274
2030 Projected Employment:	342
Growth Rate, 2020-2030:	24.8%
Annual Average Openings:	83
<u>2021 Median Hourly Wage:</u>	<u>\$11.80</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Local government	40.2%	35.1%
Amusements/gambling/recreation industries	28.5%	33.6%
Religious/granting/civic/professional orgs	12.8%	13.5%
Accommodation	9.5%	9.9%
Elementary/secondary schools (public/private)	4.0%	3.5%
Colleges/universities/professional schools	3.7%	3.2%

**33-9093 Transportation Security Screeners**

Conduct screening of passengers, baggage, or cargo to ensure compliance with Transportation Security Administration (TSA) regulations. May operate basic security equipment such as x-ray machines and hand wands at screening checkpoints.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Short OJT</u>	
2020 Estimated Employment:	87
2030 Projected Employment:	84
Growth Rate, 2020-2030:	-3.4%
Annual Average Openings:	7
<u>2021 Median Wage:</u>	<u>n</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Federal government	100.0%	100.0%

**33-9098 School Bus Monitors and Protective Service Workers, All Other**

This occupation includes the 2018 SOC occupations 33-9094 School Bus Monitors and 33-9099 Protective Service Workers, All Other and the 2010 SOC occupation 33-9099 Protective Service Workers, All Other.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Short OJT</u>	
2020 Estimated Employment:	461
2030 Projected Employment:	525
Growth Rate, 2020-2030:	13.9%
Annual Average Openings:	129
<u>2021 Median Wage:</u>	<u>n/a</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Elementary/secondary schools (public/private)	45.8%	42.5%
Transit/ground passenger transport	25.2%	30.1%
Social Assistance	6.5%	6.9%
Insurance carriers/related activities	4.8%	4.6%
General merchandise stores	3.9%	3.2%
Warehousing and storage	3.7%	3.6%

**35-1011 Chefs and Head Cooks**



Direct and may participate in the preparation, seasoning, and cooking of salads, soups, fish, meats, vegetables, desserts, or other foods. May plan and price menu items, order supplies, and keep records and accounts.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   5+ yrs   none		Food services/drinking places		52.1%	54.9%
2020 Estimated Employment:	703	Accommodation		9.5%	10.0%
2030 Projected Employment:	871	Food/beverage stores		5.7%	5.4%
Growth Rate, 2020-2030:	23.9%	Nursing/residential care facilities		5.3%	5.5%
Annual Average Openings:	118	Self-employed workers		4.8%	3.9%
2021 Median Hourly Wage:	\$28.55	Amusements/gambling/recreation industries		4.1%	4.5%

**35-1012 First-Line Supervisors of Food Preparation and Serving Workers**



Directly supervise and coordinate activities of workers engaged in preparing and serving food.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   < 5 yrs   none		Food services/drinking places		72.0%	74.8%
2020 Estimated Employment:	3,319	Food/beverage stores		6.9%	5.6%
2030 Projected Employment:	3,999	Elementary/secondary schools (public/private)		3.4%	2.9%
Growth Rate, 2020-2030:	20.5%	Amusements/gambling/recreation industries		2.4%	2.7%
Annual Average Openings:	604	Nursing/residential care facilities		2.1%	1.8%
2021 Median Hourly Wage:	\$18.88	Religious/granting/civic/professional orgs		1.9%	1.9%

**35-2011 Cooks, Fast Food**



Prepare and cook food in a fast food restaurant with a limited menu. Duties of these cooks are limited to preparation of a few basic items and normally involve operating large-volume single-purpose cooking equipment.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
No formal education   none   Short OJT		Food services/drinking places		100.0%	100.0%
2020 Estimated Employment:	1,235				
2030 Projected Employment:	1,218				
Growth Rate, 2020-2030:	-1.4%				
Annual Average Openings:	175				
2021 Median Hourly Wage:	\$13.78				

**35-2012 Cooks, Institution and Cafeteria**



Prepare and cook large quantities of food for institutions, such as schools, hospitals, or cafeterias.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
No formal education   none   Short OJT		Nursing/residential care facilities		23.0%	23.5%
2020 Estimated Employment:	1,514	Food services/drinking places		18.8%	20.4%
2030 Projected Employment:	1,602	Elementary/secondary schools (public/private)		14.3%	13.6%
Growth Rate, 2020-2030:	5.8%	Hospitals		11.2%	11.4%
Annual Average Openings:	234	Colleges/universities/professional schools		7.6%	7.7%
2021 Median Hourly Wage:	\$18.43	Local government		6.7%	5.2%

## 35-2013 Cooks, Private Household



Prepare meals in private homes. Includes personal chefs.

**Entry-Level Education, Experience, & Training:**

<u>Postsecondary</u>   < 5 yrs   none	
2020 Estimated Employment:	152
2030 Projected Employment:	153
Growth Rate, 2020-2030:	0.7%
Annual Average Openings:	22
2021 Median Wage:	n/a

**Employing Industries**

	2020 Share	2030 Share
Self-employed workers	77.0%	75.8%
Private households	23.0%	24.2%

## 35-2014 Cooks, Restaurant



Prepare, season, and cook dishes such as soups, meats, vegetables, or desserts in restaurants. May order supplies, keep records and accounts, price items on menu, or plan menu.

**Entry-Level Education, Experience, & Training:**

<u>No formal education</u>   < 5 yrs   Moderate OJT	
2020 Estimated Employment:	4,741
2030 Projected Employment:	7,168
Growth Rate, 2020-2030:	51.2%
Annual Average Openings:	1,103
2021 Median Hourly Wage:	\$17.69

**Employing Industries**

	2020 Share	2030 Share
Food services/drinking places	93.3%	93.8%
Accommodation	3.4%	3.2%
Amusements/gambling/recreation industries	2.6%	2.5%

## 35-2015 Cooks, Short Order



Prepare and cook to order a variety of foods that require only a short preparation time. May take orders from customers and serve patrons at counters or tables. Excludes "Cooks, Fast Food" (35-2011).

**Entry-Level Education, Experience, & Training:**

<u>No formal education</u>   none   Short OJT	
2020 Estimated Employment:	2,540
2030 Projected Employment:	2,799
Growth Rate, 2020-2030:	10.2%
Annual Average Openings:	411
2021 Median Hourly Wage:	\$13.57

**Employing Industries**

	2020 Share	2030 Share
Food services/drinking places	82.2%	83.0%
Food/beverage stores	11.0%	9.8%
Gasoline stations	3.7%	3.2%
Motion picture/sound recording industries	0.9%	1.8%

## 35-2019 Cooks, All Other



All cooks not listed separately.

**Entry-Level Education, Experience, & Training:**

<u>No formal education</u>   none   Moderate OJT	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Hourly Wage:	\$14.77

**Employing Industries**

	2020 Share	2030 Share
Accommodation	n	n
Food/beverage stores	n	n
Management of companies/enterprises	n	n
Museums/historical sites/similar institutions	n	n

**35-2021 Food Preparation Workers**

Perform a variety of food preparation duties other than cooking, such as preparing cold foods and shellfish, slicing meat, and brewing coffee or tea.

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Short OJT</u>	
2020 Estimated Employment:	2,708
2030 Projected Employment:	2,947
Growth Rate, 2020-2030:	8.8%
Annual Average Openings:	506
2021 Median Hourly Wage:	\$14.61

**Employing Industries**

	2020 Share	2030 Share
Food services/drinking places	47.6%	50.3%
Food/beverage stores	39.5%	37.3%
Gasoline stations	2.3%	2.3%
Accommodation	2.1%	2.5%
Elementary/secondary schools (public/private)	1.4%	1.0%
Colleges/universities/professional schools	1.2%	1.2%

**35-3011 Bartenders**

Mix and serve drinks to patrons, directly or through waitstaff.

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Short OJT</u>	
2020 Estimated Employment:	2,963
2030 Projected Employment:	3,945
Growth Rate, 2020-2030:	33.1%
Annual Average Openings:	672
2021 Median Hourly Wage:	\$10.49

**Employing Industries**

	2020 Share	2030 Share
Food services/drinking places	66.7%	67.3%
Religious/granting/civic/professional orgs	18.0%	18.6%
Beverage/tobacco product manufacturing	5.6%	4.7%
Amusements/gambling/recreation industries	5.2%	5.0%
Accommodation	2.7%	2.6%

**35-3023 Fast Food and Counter Workers**

Perform duties such as taking orders and serving food and beverages. Serve customers at counter or from a steam table. May take payment. May prepare food and beverages. Counter attendants who also wait tables are included in "Waiters and Waitresses" (35-3031),

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Short OJT</u>	
2020 Estimated Employment:	13,393
2030 Projected Employment:	15,450
Growth Rate, 2020-2030:	15.4%
Annual Average Openings:	3,129
2021 Median Hourly Wage:	\$12.07

**Employing Industries**

	2020 Share	2030 Share
Food services/drinking places	80.8%	82.0%
Food/beverage stores	5.8%	4.9%
Elementary/secondary schools (public/private)	4.7%	4.3%
Hospitals	1.8%	1.6%
Amusements/gambling/recreation industries	1.4%	1.8%
Gasoline stations	1.3%	1.3%

**35-3031 Waiters and Waitresses**

Take orders and serve food and beverages to patrons at tables in dining establishment. Excludes "Fast Food and Counter Workers" (35-3023).

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Short OJT</u>	
2020 Estimated Employment:	8,735
2030 Projected Employment:	10,587
Growth Rate, 2020-2030:	21.2%
Annual Average Openings:	2,048
2021 Median Hourly Wage:	\$12.24

**Employing Industries**

	2020 Share	2030 Share
Food services/drinking places	85.0%	84.4%
Accommodation	6.3%	6.7%
Nursing/residential care facilities	3.9%	3.8%
Amusements/gambling/recreation industries	2.7%	2.9%
Beverage/tobacco product manufacturing	1.0%	0.9%

**35-3041 Food Servers, Nonrestaurant**

Serve food to individuals outside of a restaurant environment, such as in hotel rooms, hospital rooms, residential care facilities, or cars. Excludes “Fast Food and Counter Workers” (35-3023) and “Door-to-Door Sales Workers, News and Street Vendors, and Related Workers” (41-9091).

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Short OJT</u>	
2020 Estimated Employment:	1,201
2030 Projected Employment:	1,337
Growth Rate, 2020-2030:	11.3%
Annual Average Openings:	213
2021 Median Hourly Wage:	\$13.70

**Employing Industries**

	2020 Share	2030 Share
Nursing/residential care facilities	38.6%	38.0%
Hospitals	21.5%	20.6%
Food services/drinking places	12.9%	13.8%
Local government	10.8%	10.6%
State government	3.7%	3.4%
Amusements/gambling/recreation industries	3.0%	3.5%

**35-9011 Dining Room and Cafeteria Attendants and Bartender Helpers**

Facilitate food service. Clean tables; remove dirty dishes; replace soiled table linens; set tables; replenish supply of clean linens, silverware, glassware, and dishes; supply service bar with food; and serve items such as water, condiments, and coffee to patrons.

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Short OJT</u>	
2020 Estimated Employment:	1,488
2030 Projected Employment:	1,924
Growth Rate, 2020-2030:	29.3%
Annual Average Openings:	339
2021 Median Hourly Wage:	\$10.71

**Employing Industries**

	2020 Share	2030 Share
Food services/drinking places	79.9%	80.4%
Accommodation	6.2%	6.2%
Amusements/gambling/recreation industries	4.8%	5.2%
Nursing/residential care facilities	3.0%	2.6%
Elementary/secondary schools (public/private)	2.6%	2.1%
Hospitals	1.3%	1.1%

**35-9021 Dishwashers**

Clean dishes, kitchen, food preparation equipment, or utensils.

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Short OJT</u>	
2020 Estimated Employment:	1,991
2030 Projected Employment:	2,370
Growth Rate, 2020-2030:	19%
Annual Average Openings:	384
2021 Median Hourly Wage:	\$12.03

**Employing Industries**

	2020 Share	2030 Share
Food services/drinking places	77.1%	77.8%
Nursing/residential care facilities	4.4%	4.2%
Accommodation	3.1%	3.4%
Colleges/universities/professional schools	3.1%	2.8%
Amusements/gambling/recreation industries	3.0%	3.3%
Elementary/secondary schools (public/private)	2.1%	1.9%

**35-9031 Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop**

Welcome patrons, seat them at tables or in lounge, and help ensure quality of facilities and service.

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Short OJT</u>	
2020 Estimated Employment:	1,424
2030 Projected Employment:	1,801
Growth Rate, 2020-2030:	26.5%
Annual Average Openings:	411
2021 Median Hourly Wage:	\$12.59

**Employing Industries**

	2020 Share	2030 Share
Food services/drinking places	86.8%	86.8%
Accommodation	7.0%	7.2%
Amusements/gambling/recreation industries	2.8%	3.0%

**35-9099 Food Preparation and Serving Related Workers, All Other**

All food preparation and serving related workers not listed separately.

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
<u>No formal education   none   Short OJT</u>	Food services/drinking places	50.9%	51.1%
2020 Estimated Employment: 177	Accommodation	11.3%	11.5%
2030 Projected Employment: 227	Social Assistance	8.5%	7.5%
Growth Rate, 2020-2030: 28.2%	Amusements/gambling/recreation industries	7.9%	9.3%
Annual Average Openings: 40	Beverage/tobacco product manufacturing	6.2%	5.7%
<u>2021 Median Hourly Wage: \$11.16</u>	<u>Motion picture/sound recording industries</u>	<u>4.5%</u>	<u>5.7%</u>

**37-1011 First-Line Supervisors of Housekeeping and Janitorial Workers**

Directly supervise and coordinate work activities of cleaning personnel in hotels, hospitals, offices, and other establishments.

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   &lt; 5 yrs   none</u>	Self-employed workers	33.4%	31.3%
2020 Estimated Employment: 1,050	Services to building/dwellings	28.4%	27.9%
2030 Projected Employment: 1,095	Elementary/secondary schools (public/private)	8.4%	8.5%
Growth Rate, 2020-2030: 4.3%	Accommodation	7.6%	9.4%
Annual Average Openings: 124	Hospitals	3.7%	3.8%
<u>2021 Median Hourly Wage: \$22.67</u>	<u>Construction of buildings</u>	<u>3.5%</u>	<u>3.7%</u>

**37-1012 First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers**

Directly supervise and coordinate activities of workers engaged in landscaping or groundskeeping activities. May review contracts to ascertain service, machine, and workforce requirements; answer inquiries from potential customers regarding methods, material, and price ranges; and prepare estimates according to labor, material, and machine costs.

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   &lt; 5 yrs   none</u>	Services to building/dwellings	41.7%	42.7%
2020 Estimated Employment: 1,314	Self-employed workers	40.0%	37.2%
2030 Projected Employment: 1,375	Amusements/gambling/recreation industries	7.2%	8.7%
Growth Rate, 2020-2030: 4.6%	Local government	3.3%	3.4%
Annual Average Openings: 144	Real estate	2.3%	2.3%
<u>2021 Median Hourly Wage: \$27.25</u>	<u>Colleges/universities/professional schools</u>	<u>1.5%</u>	<u>1.5%</u>

**37-2011 Janitors and Cleaners, Except Maids and Housekeeping Cleaners**

Keep buildings in clean and orderly condition. Perform heavy cleaning duties, such as cleaning floors, shampooing rugs, washing walls and glass, and removing rubbish. Duties may include tending furnace and boiler, performing routine maintenance activities, notifying management of need for repairs, and cleaning snow or debris from sidewalk.

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
<u>No formal education   none   Short OJT</u>	Services to building/dwellings	30.8%	29.6%
2020 Estimated Employment: 9,462	Elementary/secondary schools (public/private)	16.2%	16.2%
2030 Projected Employment: 10,013	Hospitals	7.4%	7.4%
Growth Rate, 2020-2030: 5.8%	Colleges/universities/professional schools	5.6%	5.6%
Annual Average Openings: 1,345	Self-employed workers	5.1%	4.6%
<u>2021 Median Hourly Wage: \$14.78</u>	<u>Religious/granting/civic/professional orgs</u>	<u>3.6%</u>	<u>3.5%</u>



**37-2012 Maids and Housekeeping Cleaners**

Perform any combination of light cleaning duties to maintain private households or commercial establishments, such as hotels and hospitals, in a clean and orderly manner. Duties may include making beds, replenishing linens, cleaning rooms and halls, and vacuuming.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>No formal education   none   Short OJT</u>		Private households		28.8%	28.0%
2020 Estimated Employment:	4,817	Accommodation		25.7%	27.5%
2030 Projected Employment:	5,242	Self-employed workers		10.6%	9.4%
Growth Rate, 2020-2030:	8.8%	Services to building/dwellings		9.5%	9.7%
Annual Average Openings:	708	Nursing/residential care facilities		9.0%	8.8%
2021 Median Hourly Wage:	\$14.29	Hospitals		3.6%	3.6%

**37-2019 Building Cleaning Workers, All Other**

All building cleaning workers not listed separately.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>No formal education   none   Short OJT</u>		Accommodation		n	n
2020 Estimated Employment:	n	Furniture/home furnishings stores		n	n
2030 Projected Employment:	n	Services to building/dwellings		n	n
Growth Rate, 2020-2030:	n	Self-employed workers		n	n
Annual Average Openings:	n				
2021 Median Hourly Wage:	\$18.57				

**37-2021 Pest Control Workers**

Apply or release chemical solutions or toxic gases and set traps to kill or remove pests and vermin that infest buildings and surrounding areas.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>		Services to building/dwellings		91.8%	92.8%
2020 Estimated Employment:	279	Self-employed workers		6.1%	5.3%
2030 Projected Employment:	304	Junior colleges		1.4%	1.3%
Growth Rate, 2020-2030:	9%				
Annual Average Openings:	41				
2021 Median Hourly Wage:	\$22.36				

**37-3011 Landscaping and Groundskeeping Workers**

Landscape or maintain grounds of property using hand or power tools or equipment. Workers typically perform a variety of tasks, including any combination of the following: sod laying, mowing, trimming, planting, watering, fertilizing, digging, raking, installing sprinklers, or installing mortarless segmental concrete masonry wall units.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>No formal education   none   Short OJT</u>		Services to building/dwellings		53.1%	52.6%
2020 Estimated Employment:	6,758	Self-employed workers		19.2%	17.2%
2030 Projected Employment:	7,315	Amusements/gambling/recreation industries		8.3%	9.8%
Growth Rate, 2020-2030:	8.2%	Local government		4.6%	5.1%
Annual Average Openings:	962	Real estate		2.4%	2.4%
2021 Median Hourly Wage:	\$17.92	Elementary/secondary schools (public/private)		1.5%	1.5%

**37-3012 Pesticide Handlers, Sprayers, and Applicators, Vegetation**

Mix or apply pesticides, herbicides, fungicides, or insecticides through sprays, dusts, vapors, soil incorporation, or chemical application on trees, shrubs, lawns, or crops. Usually requires specific training and state or federal certification. Crop dusters are included in "Commercial Pilots" (53-2012).

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Moderate OJT</u>	
2020 Estimated Employment:	120
2030 Projected Employment:	136
Growth Rate, 2020-2030:	13.3%
Annual Average Openings:	19
2021 Median Hourly Wage:	\$24.88

**Employing Industries**

	2020 Share	2030 Share
Services to building/dwellings	62.5%	60.3%
Amusements/gambling/recreation industries	18.3%	20.6%
Crop production	11.7%	11.8%
Self-employed workers	n	n
Wholesale trade	n	n

**37-3013 Tree Trimmers and Pruners**

Use sophisticated climbing and rigging methods to cut dead or excess branches from trees or shrubs to maintain right-of-way for roads, sidewalks, or utilities, or to improve appearance, health, and value of tree. Prune trees or shrubs using handsaws, hand or power pruners, and clippers. Work off the ground in tree canopies or use truck-mounted lifts.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Short OJT</u>	
2020 Estimated Employment:	429
2030 Projected Employment:	452
Growth Rate, 2020-2030:	5.4%
Annual Average Openings:	59
2021 Median Hourly Wage:	\$18.83

**Employing Industries**

	2020 Share	2030 Share
Services to building/dwellings	76.0%	77.2%
Self-employed workers	18.4%	17.0%
Colleges/universities/professional schools	2.8%	2.7%
Crop production	1.4%	1.6%
Local government	1.4%	1.6%

**37-3019 Grounds Maintenance Workers, All Other**

All grounds maintenance workers not listed separately.

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Short OJT</u>	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Hourly Wage:	\$18.04

**Employing Industries**

	2020 Share	2030 Share
Amusements/gambling/recreation industries	n	n
Accommodation	n	n
Postal service, federal government	n	n
Self-employed workers	n	n
State government	n	n

**39-1013 First-Line Supervisors of Gambling Services Workers**

Supervise and coordinate worker activities in assigned gambling areas. Circulate among tables, observe operations, and ensure adequate shift coverage. May verify and pay off jackpots, reset machines after payoffs, make repairs or adjustments to slot machines, or recommend removal for repair. May plan and organize activities for hotel/casino guests.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   &lt; 5 yrs   none</u>	
2020 Estimated Employment:	33
2030 Projected Employment:	42
Growth Rate, 2020-2030:	27.3%
Annual Average Openings:	5
2021 Median Hourly Wage:	\$20.83

**Employing Industries**

	2020 Share	2030 Share
Amusements/gambling/recreation industries	93.9%	95.2%
Self-employed workers	6.1%	4.8%

**39-1098 First-Line Supervisors of Personal Service/Entertainment & Recreation Workers, Ex. Gambling Svcs.** 

This occupation includes the 2018 SOC occupations 39-1014 First-Line Supervisors of Entertainment and Recreation Workers, Except Gambling Services and 39-1022 First-Line Supervisors of Personal Service Workers and the 2010 SOC occupation 39-1021 First-Line Supervisors of Personal Service Workers.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   &lt; 5 yrs   none</u>	
2020 Estimated Employment:	970
2030 Projected Employment:	1,203
Growth Rate, 2020-2030:	24%
Annual Average Openings:	138
2021 Median Wage:	n/a

**Employing Industries**

	2020 Share	2030 Share
Personal and laundry services	19.5%	21.5%
Amusements/gambling/recreation industries	14.1%	16.2%
Social Assistance	9.9%	9.7%
Self-employed workers	9.1%	8.2%
Nursing/residential care facilities	7.6%	6.7%
Religious/granting/civic/professional orgs	6.6%	6.5%

**39-2011 Animal Trainers** 

Train animals for riding, harness, security, performance, or obedience, or for assisting persons with disabilities. Accustom animals to human voice and contact, and condition animals to respond to commands. Train animals according to prescribed standards for show or competition. May train animals to carry pack loads or work as part of pack team.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Moderate OJT</u>	
2020 Estimated Employment:	182
2030 Projected Employment:	227
Growth Rate, 2020-2030:	24.7%
Annual Average Openings:	29
2021 Median Hourly Wage:	\$17.34

**Employing Industries**

	2020 Share	2030 Share
Self-employed workers	41.8%	44.1%
Miscellaneous store retailers	14.3%	11.9%
Religious/granting/civic/professional orgs	12.1%	11.9%
Personal and laundry services	11.5%	13.2%
Animal production/aquaculture	10.4%	9.7%
Support activities, Agriculture/Forestry	n	n

**39-2021 Animal Caretakers** 

Feed, water, groom, bathe, exercise, or provide care to maintain the well-being of pets or animals not for consumption, such as dogs, cats, race horses, or exotic fish or birds. Work in kennels, animal shelters, zoos, circuses, or aquariums. Keep records of feeding, treatment, and arrivals/discharges. Clean, disinfect, or repair cages, pens, or tanks.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Short OJT</u>	
2020 Estimated Employment:	1,564
2030 Projected Employment:	2,204
Growth Rate, 2020-2030:	40.9%
Annual Average Openings:	341
2021 Median Hourly Wage:	\$13.81

**Employing Industries**

	2020 Share	2030 Share
Personal and laundry services	45.1%	53.3%
Self-employed workers	23.8%	22.0%
Miscellaneous store retailers	12.7%	9.4%
Religious/granting/civic/professional orgs	10.7%	9.4%
Other professional/scientific/technical services	2.9%	2.5%
Support activities, Agriculture/Forestry	n	n

**39-3011 Gambling Dealers** 

Operate table games. Stand or sit behind table and operate games of chance by dispensing the appropriate number of cards or blocks to players, or operating other gambling equipment. Distribute winnings or collect players' money or chips. May compare the house's hand against players' hands.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Short OJT</u>	
2020 Estimated Employment:	240
2030 Projected Employment:	304
Growth Rate, 2020-2030:	26.7%
Annual Average Openings:	45
2021 Median Hourly Wage:	\$8.80

**Employing Industries**

	2020 Share	2030 Share
Amusements/gambling/recreation industries	98.8%	98.4%
Self-employed workers	1.3%	1.6%

**39-3031 Ushers, Lobby Attendants, and Ticket Takers**

Assist patrons at entertainment events by performing duties, such as collecting admission tickets and passes from patrons, assisting in finding seats, searching for lost articles, and helping patrons locate such facilities as restrooms and telephones.

**Entry-Level Education, Experience, & Training:**

No formal education   none   Short OJT	
2020 Estimated Employment:	103
2030 Projected Employment:	199
Growth Rate, 2020-2030:	93.2%
Annual Average Openings:	44
2021 Median Wage:	n

**Employing Industries**

	2020 Share	2030 Share
Performing arts/spectator sports/related	47.6%	52.8%
Motion picture/sound recording industries	45.6%	42.2%
Amusements/gambling/recreation industries	3.9%	3.0%
Accommodation	2.9%	2.0%

**39-3091 Amusement and Recreation Attendants**

Perform a variety of attending duties at amusement or recreation facility. May schedule use of recreation facilities, maintain and provide equipment to participants of sporting events or recreational pursuits, or operate amusement concessions and rides.

**Entry-Level Education, Experience, & Training:**

No formal education   none   Short OJT	
2020 Estimated Employment:	1,190
2030 Projected Employment:	1,620
Growth Rate, 2020-2030:	36.1%
Annual Average Openings:	337
2021 Median Hourly Wage:	\$10.67

**Employing Industries**

	2020 Share	2030 Share
Amusements/gambling/recreation industries	75.0%	76.8%
Other schools/instruction	4.1%	4.4%
Accommodation	4.1%	4.0%
Local government	3.4%	2.7%
Rental/leasing services	2.3%	1.7%
State government	1.9%	1.5%

**39-4011 Embalmers**

Prepare bodies for interment in conformity with legal requirements.

**Entry-Level Education, Experience, & Training:**

Associate's degree   none   Long OJT	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Wage:	n

**Employing Industries**

	2020 Share	2030 Share
Personal and laundry services	n	n
Self-employed workers	n	n

**39-4021 Funeral Attendants**

Perform a variety of tasks during funeral, such as placing casket in parlor or chapel prior to service, arranging floral offerings or lights around casket, directing or escorting mourners, closing casket, and issuing and storing funeral equipment.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Short OJT	
2020 Estimated Employment:	100
2030 Projected Employment:	105
Growth Rate, 2020-2030:	5%
Annual Average Openings:	14
2021 Median Hourly Wage:	\$22.44

**Employing Industries**

	2020 Share	2030 Share
Personal and laundry services	84.0%	84.8%
Self-employed workers	1.06%	15.2%

**39-4031 Morticians, Undertakers, and Funeral Arrangers**

Perform various tasks to arrange and direct individual funeral services, such as coordinating transportation of body to mortuary, interviewing family or authorized person to arrange details, selecting pallbearers, aiding with the selection of officials for religious rites, and providing transportation for mourners. Excludes Funeral Home Managers.

**Entry-Level Education, Experience, & Training:**

<u>Associate's degree   none   Long OJT</u>	
2020 Estimated Employment:	84
2030 Projected Employment:	89
Growth Rate, 2020-2030:	6%
Annual Average Openings:	10
2021 Median Hourly Wage:	\$30.87

**Employing Industries**

	2020 Share	2030 Share
Personal and laundry services	98.8%	98.9%
Self-employed workers	1.2%	1.1%

**39-5011 Barbers**

Provide barbering services, such as cutting, trimming, shampooing, and styling hair; trimming beards; or giving shaves.

**Entry-Level Education, Experience, & Training:**

<u>Postsecondary   none   none</u>	
2020 Estimated Employment:	646
2030 Projected Employment:	723
Growth Rate, 2020-2030:	11.9%
Annual Average Openings:	73
2021 Median Wage:	n

**Employing Industries**

	2020 Share	2030 Share
Self-employed workers	99.9%	99.7%

**39-5012 Hairdressers, Hairstylists, and Cosmetologists**

Provide beauty services, such as cutting, coloring, and styling hair, and massaging and treating scalp. May shampoo hair, apply makeup, dress wigs, remove hair, and provide nail and skincare services. Excludes "Makeup Artists, Theatrical and Performance" (39-5091), "Manicurists and Pedicurists" (39-5092), and "Skincare Specialists" (39-5094).

**Entry-Level Education, Experience, & Training:**

<u>Postsecondary   none   none</u>	
2020 Estimated Employment:	3,482
2030 Projected Employment:	4,155
Growth Rate, 2020-2030:	19.3%
Annual Average Openings:	481
2021 Median Hourly Wage:	\$14.16

**Employing Industries**

	2020 Share	2030 Share
Personal and laundry services	44.7%	50.2%
Self-employed workers	40.1%	37.5%
General merchandise stores	13.6%	10.7%

**39-5092 Manicurists and Pedicurists**

Clean and shape customers' fingernails and toenails. May polish or decorate nails.

**Entry-Level Education, Experience, & Training:**

<u>Postsecondary   none   none</u>	
2020 Estimated Employment:	399
2030 Projected Employment:	542
Growth Rate, 2020-2030:	35.8%
Annual Average Openings:	63
2021 Median Hourly Wage:	\$17.05

**Employing Industries**

	2020 Share	2030 Share
Personal and laundry services	66.7%	72.3%
Self-employed workers	32.6%	26.9%

**39-5093 Shampooers**

Shampoo and rinse customers' hair.

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Short OJT</u>	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
<u>2021 Median Wage:</u>	n/a

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Personal and laundry services	n	n
Self-employed workers	n	n

**39-5094 Skincare Specialists**

Provide skincare treatments to face and body to enhance an individual's appearance. Includes electrologists and laser hair removal specialists.

**Entry-Level Education, Experience, & Training:**

<u>Postsecondary   none   none</u>	
2020 Estimated Employment:	340
2030 Projected Employment:	447
Growth Rate, 2020-2030:	31.5%
Annual Average Openings:	52
<u>2021 Median Hourly Wage:</u>	\$15.30

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Personal and laundry services	50.0%	56.2%
Self-employed workers	25.9%	21.9%
Ambulatory health care services	16.2%	13.9%
Health/personal care stores	3.8%	3.6%
Accommodation	3.2%	3.4%
Amusements/gambling/recreation industries	0.9%	1.1%

**39-6011 Baggage Porters and Bellhops**

Handle baggage for travelers at transportation terminals or for guests at hotels or similar establishments.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Short OJT</u>	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
<u>2021 Median Hourly Wage:</u>	\$11.93

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Accommodation	n	n

**39-6012 Concierges**

Assist patrons at hotel, apartment, or office building with personal services. May take messages; arrange or give advice on transportation, business services, or entertainment; or monitor guest requests for housekeeping and maintenance.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Moderate OJT</u>	
2020 Estimated Employment:	37
2030 Projected Employment:	42
Growth Rate, 2020-2030:	13.5%
Annual Average Openings:	5
<u>2021 Median Hourly Wage:</u>	\$16.37

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Nursing/residential care facilities	43.2%	42.9%
Accommodation	37.8%	38.1%
Management of companies/enterprises	16.2%	14.3%
Religious/granting/civic/professional orgs	2.7%	4.8%

39-7010 Tour and Travel Guides 

This occupation includes the 2018 and 2010 SOC occupations 39-7011 Tour Guides and Escorts and 39-7012 Travel Guides.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>		Museums/historical sites/similar institutions		39.9%	42.1%
2020 Estimated Employment:	198	Scenic/sightseeing transportation		20.2%	24.4%
2030 Projected Employment:	283	Self-employed workers		11.6%	9.9%
Growth Rate, 2020-2030:	42.9%	Colleges/universities/professional schools		10.6%	8.1%
Annual Average Openings:	45	Amusements/gambling/recreation industries		7.1%	6.7%
<u>2021 Median Hourly Wage:</u>	<u>\$14.50</u>	Accommodation		4.0%	3.9%

39-9011 Childcare Workers 

Attend to children at schools, businesses, private households, and childcare institutions. Perform a variety of tasks, such as dressing, feeding, bathing, and overseeing play. Excludes Preschool Teachers, Except Special Education and Teaching Assistants, Preschool, Elementary, Middle, and Secondary School, Except Special Education.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Short OJT</u>		Private households		30.0%	29.5%
2020 Estimated Employment:	3,555	Social Assistance		27.6%	29.5%
2030 Projected Employment:	3,823	Self-employed workers		20.7%	17.1%
Growth Rate, 2020-2030:	7.5%	Religious/granting/civic/professional orgs		6.0%	6.0%
Annual Average Openings:	533	Elementary/secondary schools (public/private)		5.9%	5.8%
<u>2021 Median Hourly Wage:</u>	<u>\$11.14</u>	Amusements/gambling/recreation industries		5.0%	7.0%

39-9031 Exercise Trainers and Group Fitness Instructors 

Instruct or coach groups or individuals in exercise activities for the primary purpose of personal fitness. Demonstrate techniques and form, observe participants, and explain to them corrective measures necessary to improve their skills. Develop and implement individualized approaches to exercise.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Short OJT</u>		Amusements/gambling/recreation industries		58.9%	61.7%
2020 Estimated Employment:	2,008	Self-employed workers		16.7%	15.2%
2030 Projected Employment:	2,869	Personal and laundry services		5.5%	5.5%
Growth Rate, 2020-2030:	42.9%	Other schools/instruction		5.3%	5.8%
Annual Average Openings:	461	Religious/granting/civic/professional orgs		4.9%	4.7%
<u>2021 Median Hourly Wage:</u>	<u>\$22.65</u>	Social Assistance		2.7%	2.5%

39-9032 Recreation Workers 

Conduct recreation activities with groups in public, private, or volunteer agencies or recreation facilities. Organize and promote activities, such as arts and crafts, sports, games, music, dramatics, social recreation, camping, and hobbies, taking into account the needs and interests of individual members.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Short OJT</u>		Local government		30.3%	28.5%
2020 Estimated Employment:	1,861	Nursing/residential care facilities		21.2%	19.5%
2030 Projected Employment:	2,154	Religious/granting/civic/professional orgs		19.9%	20.4%
Growth Rate, 2020-2030:	15.7%	Amusements/gambling/recreation industries		9.6%	11.5%
Annual Average Openings:	338	Accommodation		7.2%	8.4%
<u>2021 Median Hourly Wage:</u>	<u>\$14.08</u>	Social Assistance		4.3%	4.7%

**39-9041 Residential Advisors**

Coordinate activities in resident facilities in secondary school and college dormitories, group homes, or similar establishments. Order supplies and determine need for maintenance, repairs, and furnishings. May maintain household records and assign rooms. May assist residents with problem solving or refer them to counseling resources.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Short OJT</u>	
2020 Estimated Employment:	521
2030 Projected Employment:	611
Growth Rate, 2020-2030:	17.3%
Annual Average Openings:	88
2021 Median Hourly Wage:	\$14.77

**Employing Industries**

	2020 Share	2030 Share
Hospitals	39.9%	41.4%
Social Assistance	22.3%	22.6%
Nursing/residential care facilities	13.1%	12.3%
Colleges/universities/professional schools	12.1%	11.1%
Ambulatory health care services	6.9%	6.9%
Other schools/instruction	1.9%	2.3%

**39-9098 Crematory Operators and Personal Care and Service Workers, All Other**

This occupation includes the 2018 SOC occupations 39-4012 Crematory Operators and 39-9099 Personal Care and Service Workers, All Other and the 2010 SOC occupation 39-9099 Personal Care and Service Workers, All Other.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Short OJT</u>	
2020 Estimated Employment:	53
2030 Projected Employment:	67
Growth Rate, 2020-2030:	26.4%
Annual Average Openings:	8
2021 Median Wage:	n/a

**Employing Industries**

	2020 Share	2030 Share
Personal and laundry services	66.0%	68.7%
Self-employed workers	15.1%	14.9%
Colleges/universities/professional schools	7.6%	6.0%
Ambulatory health care services	n	n
General merchandise stores	n	n
Nursing/residential care facilities	n	n

**41-1011 First-Line Supervisors of Retail Sales Workers**

Directly supervise and coordinate activities of retail sales workers in an establishment or department. Duties may include management functions, such as purchasing, budgeting, accounting, and personnel work, in addition to supervisory duties.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   &lt; 5 yrs   none</u>	
2020 Estimated Employment:	7,885
2030 Projected Employment:	7,396
Growth Rate, 2020-2030:	-6.2%
Annual Average Openings:	750
2021 Median Hourly Wage:	\$22.11

**Employing Industries**

	2020 Share	2030 Share
Self-employed workers	20.8%	17.7%
General merchandise stores	13.9%	13.9%
Building material/garden supply stores	8.9%	9.0%
Motor vehicle/parts dealers	8.4%	9.8%
Food/beverage stores	8.1%	8.5%
Clothing/clothing accessories stores	7.0%	6.0%

**41-1012 First-Line Supervisors of Non-Retail Sales Workers**

Directly supervise and coordinate activities of sales workers other than retail sales workers. May perform duties such as budgeting, accounting, and personnel work, in addition to supervisory duties.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   &lt; 5 yrs   none</u>	
2020 Estimated Employment:	2,318
2030 Projected Employment:	2,245
Growth Rate, 2020-2030:	-3.1%
Annual Average Openings:	195
2021 Median Hourly Wage:	\$46.23

**Employing Industries**

	2020 Share	2030 Share
Self-employed workers	33.2%	26.7%
Wholesale trade	22.7%	24.7%
Electronics/appliance stores	3.8%	3.3%
Credit intermediation/related activities	3.7%	3.9%
Insurance carriers/related activities	3.3%	3.7%
Management of companies/enterprises	2.7%	2.8%



**41-2011 Cashiers**

Receive and disburse money in establishments other than financial institutions. May use electronic scanners, cash registers, or related equipment. May process credit or debit card transactions and validate checks. Excludes "Gambling Change Persons and Booth Cashiers" (41-2012).

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Short OJT</u>	
2020 Estimated Employment:	20,437
2030 Projected Employment:	18,535
Growth Rate, 2020-2030:	-9.3%
Annual Average Openings:	3,334
2021 Median Hourly Wage:	\$11.61

**Employing Industries**

	2020 Share	2030 Share
Food/beverage stores	29.5%	28.9%
General merchandise stores	23.5%	22.8%
Gasoline stations	14.3%	14.9%
State government	6.2%	5.8%
Food services/drinking places	6.1%	7.0%
Building material/garden supply stores	5.4%	5.2%

**41-2012 Gambling Change Persons and Booth Cashiers**

Exchange coins, tokens, and chips for patrons' money. May issue payoffs and obtain customer's signature on receipt. May operate a booth in the slot machine area and furnish change persons with money bank at the start of the shift, or count and audit money in drawers. Excludes "Cashiers" (41-2011).

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Short OJT</u>	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Hourly Wage:	\$16.21

**Employing Industries**

	2020 Share	2030 Share
Amusements/gambling/recreation industries	n	n
Performing arts/spectator sports/related	n	n

**41-2021 Counter and Rental Clerks**

Receive orders, generally in person, for repairs, rentals, and services. May describe available options, compute cost, and accept payment. Excludes "Fast Food and Counter Workers" (35-3023), "Hotel, Motel, and Resort Desk Clerks" (43-4081), "Order Clerks" (43-4151), and "Reservation and Transportation Ticket Agents and Travel Clerks" (43-4181).

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Short OJT</u>	
2020 Estimated Employment:	2,071
2030 Projected Employment:	2,267
Growth Rate, 2020-2030:	9.5%
Annual Average Openings:	266
2021 Median Hourly Wage:	\$17.93

**Employing Industries**

	2020 Share	2030 Share
Motor vehicle/parts dealers	26.1%	26.4%
Personal and laundry services	19.0%	18.1%
Rental/leasing services	17.2%	17.3%
Repair and maintenance	16.9%	17.2%
Real estate	8.4%	8.4%
Business support services	3.5%	3.8%

**41-2022 Parts Salespersons**

Sell spare and replacement parts and equipment in repair shop or parts store.

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Moderate OJT</u>	
2020 Estimated Employment:	1,207
2030 Projected Employment:	1,305
Growth Rate, 2020-2030:	8.1%
Annual Average Openings:	159
2021 Median Hourly Wage:	\$17.52

**Employing Industries**

	2020 Share	2030 Share
Motor vehicle/parts dealers	75.2%	75.8%
Wholesale trade	20.3%	19.6%
Repair and maintenance	2.5%	2.6%

**41-2031 Retail Salespersons**

Sell merchandise, such as furniture, motor vehicles, appliances, or apparel to consumers. Excludes "Cashiers" (41-2011).

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Short OJT</u>	
2020 Estimated Employment:	20,854
2030 Projected Employment:	20,030
Growth Rate, 2020-2030:	-4%
Annual Average Openings:	2,749
2021 Median Hourly Wage:	\$14.13

**Employing Industries**

	2020 Share	2030 Share
Building material/garden supply stores	19.7%	19.5%
Clothing/clothing accessories stores	14.9%	13.5%
General merchandise stores	13.6%	13.3%
Sporting goods/hobby/book/music stores	9.5%	9.4%
Motor vehicle/parts dealers	8.9%	10.3%
	8.5%	8.0%

**41-3011 Advertising Sales Agents**

Sell or solicit advertising space, time, or media in publications, signage, TV, radio, or Internet establishments or public spaces.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Moderate OJT</u>	
2020 Estimated Employment:	321
2030 Projected Employment:	308
Growth Rate, 2020-2030:	-4%
Annual Average Openings:	38
2021 Median Hourly Wage:	\$23.31

**Employing Industries**

	2020 Share	2030 Share
Publishing industries	44.6%	43.8%
Broadcasting (except internet)	22.1%	21.4%
Advertising/related services	16.8%	17.5%
Wholesale trade	7.5%	8.1%
Self-employed workers	5.3%	5.2%

**41-3021 Insurance Sales Agents**

Sell life, property, casualty, health, automotive, or other types of insurance. May refer clients to independent brokers, work as an independent broker, or be employed by an insurance company.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Moderate OJT</u>	
2020 Estimated Employment:	2,642
2030 Projected Employment:	2,826
Growth Rate, 2020-2030:	7%
Annual Average Openings:	262
2021 Median Hourly Wage:	\$23.77

**Employing Industries**

	2020 Share	2030 Share
Insurance carriers/related activities	82.6%	86.6%
Self-employed workers	11.8%	7.7%
Employment services	3.8%	3.9%

**41-3031 Securities, Commodities, and Financial Services Sales Agents**

Buy and sell securities or commodities in investment and trading firms, or provide financial services to businesses and individuals. May advise customers about stocks, bonds, mutual funds, commodities, and market conditions.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   Moderate OJT</u>	
2020 Estimated Employment:	1,457
2030 Projected Employment:	1,594
Growth Rate, 2020-2030:	9.4%
Annual Average Openings:	144
2021 Median Hourly Wage:	\$30.77

**Employing Industries**

	2020 Share	2030 Share
Credit intermediation/related activities	40.0%	38.1%
Financial investment/related activities	39.9%	43.1%
Wholesale trade	8.2%	7.9%
Management of companies/enterprises	4.2%	3.9%
Self-employed workers	3.5%	2.7%
Insurance carriers/related activities	3.3%	3.3%

**41-3041 Travel Agents**

Plan and sell transportation and accommodations for customers. Determine destination, modes of transportation, travel dates, costs, and accommodations required. May also describe, plan, and arrange itineraries and sell tour packages. May assist in resolving clients' travel problems.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	261
2030 Projected Employment:	257
Growth Rate, 2020-2030:	-1.5%
Annual Average Openings:	30
2021 Median Hourly Wage:	\$23.06

**Employing Industries**

	2020 Share	2030 Share
Travel arrangement/reservation services	84.3%	82.9%
Self-employed workers	12.6%	13.6%
Insurance carriers/related activities	3.1%	3.5%

**41-3091 Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel**

Sell services to individuals or businesses. May describe options or resolve client problems. Excludes Advertising Sales Agents, Insurance Sales Agents, Securities, Commodities, and Financial Services Sales Agents, Travel Agents, Sales Representatives, Wholesale and Manufacturing, and Telemarketers.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	4,223
2030 Projected Employment:	4,597
Growth Rate, 2020-2030:	8.9%
Annual Average Openings:	536
2021 Median Hourly Wage:	\$37.27

**Employing Industries**

	2020 Share	2030 Share
Telecommunications	9.9%	8.0%
Computer systems design/related services	9.3%	10.3%
Electronics/appliance stores	8.1%	6.2%
Employment services	7.5%	7.6%
Wholesale trade	7.1%	6.8%
Specialty trade contractors	5.0%	4.9%

**41-4011 Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products**

Sell goods for wholesalers or manufacturers where technical or scientific knowledge is required in such areas as biology, engineering, chemistry, and electronics, normally obtained from at least 2 years of postsecondary education. Excludes "Sales Engineers" (41-9031).

**Entry-Level Education, Experience, & Training:**

Bachelor's degree   none   Moderate OJT	
2020 Estimated Employment:	2,306
2030 Projected Employment:	2,539
Growth Rate, 2020-2030:	10.1%
Annual Average Openings:	259
2021 Median Hourly Wage:	\$39.40

**Employing Industries**

	2020 Share	2030 Share
Wholesale trade	35.7%	34.2%
Non-store retailers	17.1%	19.7%
Computer/electronic product manufacturing	8.5%	8.5%
Computer systems design/related services	5.4%	5.9%
Management of companies/enterprises	4.6%	4.2%
Publishing industries	3.8%	3.9%

**41-4012 Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products**

Sell goods for wholesalers or manufacturers to businesses or groups of individuals. Work requires substantial knowledge of items sold.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	7,119
2030 Projected Employment:	7,427
Growth Rate, 2020-2030:	4.3%
Annual Average Openings:	737
2021 Median Hourly Wage:	\$30.39

**Employing Industries**

	2020 Share	2030 Share
Wholesale trade	72.2%	73.1%
Building material/garden supply stores	3.4%	3.1%
Self-employed workers	2.9%	2.2%
Management of companies/enterprises	2.2%	2.1%
Machinery manufacturing	1.6%	1.6%
Specialty trade contractors	1.6%	1.6%

**41-9011 Demonstrators and Product Promoters**

Demonstrate merchandise and answer questions for the purpose of creating public interest in buying the product. May sell demonstrated merchandise.

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Short OJT</u>	
2020 Estimated Employment:	149
2030 Projected Employment:	155
Growth Rate, 2020-2030:	4%
Annual Average Openings:	28
<u>2021 Median Hourly Wage:</u>	<u>\$17.03</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Wholesale trade	56.4%	57.4%
Building material/garden supply stores	11.4%	10.3%
Beverage/tobacco product manufacturing	9.4%	10.3%
Self-employed workers	8.1%	7.7%
Computer systems design/related services	n	n
<u>Sporting goods/hobby/book/music stores</u>	<u>n</u>	<u>n</u>

**41-9021 Real Estate Brokers**

Operate real estate office, or work for commercial real estate firm, overseeing real estate transactions. Other duties usually include selling real estate or renting properties and arranging loans.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   &lt; 5 yrs   none</u>	
2020 Estimated Employment:	226
2030 Projected Employment:	239
Growth Rate, 2020-2030:	5.8%
Annual Average Openings:	21
<u>2021 Median Hourly Wage:</u>	<u>\$38.32</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Self-employed workers	55.8%	50.2%
Real estate	42.5%	48.1%
Management of companies/enterprises	n	n

**41-9022 Real Estate Sales Agents**

Rent, buy, or sell property for clients. Perform duties such as study property listings, interview prospective clients, accompany clients to property site, discuss conditions of sale, and draw up real estate contracts. Includes agents who represent buyer.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Moderate OJT</u>	
2020 Estimated Employment:	565
2030 Projected Employment:	598
Growth Rate, 2020-2030:	5.8%
Annual Average Openings:	53
<u>2021 Median Hourly Wage:</u>	<u>\$22.66</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Self-employed workers	54.9%	49.7%
Real estate	35.9%	40.6%
Social Assistance	3.5%	4.2%
Management of companies/enterprises	2.5%	2.3%
Local government	1.1%	1.0%

**41-9031 Sales Engineers**

Sell business goods or services, the selling of which requires a technical background equivalent to a baccalaureate degree in engineering. Excludes "Engineers" (17-2011 through 17-2199) whose primary function is not marketing or sales.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   Moderate OJT</u>	
2020 Estimated Employment:	456
2030 Projected Employment:	492
Growth Rate, 2020-2030:	7.9%
Annual Average Openings:	53
<u>2021 Median Hourly Wage:</u>	<u>\$59.25</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Wholesale trade	55.9%	54.9%
Computer/electronic product manufacturing	12.7%	12.8%
Computer systems design/related services	8.1%	8.9%
Architectural/engineering/related services	6.1%	6.3%
Publishing industries	n	n
<u>Telecommunications</u>	<u>n</u>	<u>n</u>

**41-9041 Telemarketers**

Solicit donations or orders for goods or services over the telephone.

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Short OJT</u>	
2020 Estimated Employment:	539
2030 Projected Employment:	458
Growth Rate, 2020-2030:	-15%
Annual Average Openings:	66
<u>2021 Median Hourly Wage:</u>	<u>\$14.55</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Business support services	63.8%	61.8%
Wholesale trade	12.2%	12.2%
Management/scientific/technical consulting	4.6%	5.7%
Specialty trade contractors	4.3%	4.4%
Publishing industries	2.4%	2.4%

**41-9099 Sales and Related Workers, All Other**

All sales and related workers not listed separately.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   none</u>	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
<u>2021 Median Hourly Wage:</u>	<u>\$14.35</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Computer/electronic product manufacturing	n	n
General merchandise stores	n	n
Insurance carriers/related activities	n	n
Miscellaneous store retailers	n	n
Self-employed workers	n	n
Wholesale trade	n	n

**43-1011 First-Line Supervisors of Office and Administrative Support Workers**

Directly supervise and coordinate the activities of clerical and administrative support workers.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   &lt; 5 yrs   none</u>	
2020 Estimated Employment:	7,439
2030 Projected Employment:	7,411
Growth Rate, 2020-2030:	-0.4%
Annual Average Openings:	727
<u>2021 Median Hourly Wage:</u>	<u>\$29.34</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Ambulatory health care services	7.8%	8.4%
Wholesale trade	5.7%	5.6%
Credit intermediation/related activities	5.6%	5.1%
Insurance carriers/related activities	5.6%	5.7%
Food/beverage stores	4.9%	4.4%
Management of companies/enterprises	3.3%	3.1%

**43-2011 Switchboard Operators, Including Answering Service**

Operate telephone business systems equipment or switchboards to relay incoming, outgoing, and interoffice calls. May supply information to callers and record messages.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Short OJT</u>	
2020 Estimated Employment:	307
2030 Projected Employment:	240
Growth Rate, 2020-2030:	-21.8%
Annual Average Openings:	23
<u>2021 Median Hourly Wage:</u>	<u>\$16.95</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Hospitals	28.0%	26.7%
Business support services	26.1%	27.5%
Ambulatory health care services	15.6%	16.3%
Motor vehicle/parts dealers	6.8%	6.7%
Non-store retailers	6.2%	7.1%
Insurance carriers/related activities	4.2%	4.2%

**43-3011 Bill and Account Collectors**

Locate and notify customers of delinquent accounts by mail, telephone, or personal visit to solicit payment. Receive payment and posting amount to customer's account, prepare statements to credit department if customer fails to respond, initiate repossession proceedings or service disconnection, and keep records of collection and account status.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Moderate OJT</u>	
2020 Estimated Employment:	1,432
2030 Projected Employment:	1,343
Growth Rate, 2020-2030:	-6.2%
Annual Average Openings:	140
<u>2021 Median Hourly Wage:</u>	<u>\$17.67</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Business support services	58.3%	58.6%
Accounting/tax/bookkeeping/payroll services	9.0%	9.2%
Insurance carriers/related activities	6.7%	7.1%
Credit intermediation/related activities	6.3%	5.7%
Legal services	4.5%	4.5%
Telecommunications	4.0%	3.4%

**43-3021 Billing and Posting Clerks**

Compile, compute, and record billing, accounting, statistical, and other numerical data for billing purposes. Prepare billing invoices for services rendered or for delivery or shipment of goods. Excludes "Medical Records Specialists" (29-2072).

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Moderate OJT</u>	
2020 Estimated Employment:	2,289
2030 Projected Employment:	2,341
Growth Rate, 2020-2030:	2.3%
Annual Average Openings:	242
<u>2021 Median Hourly Wage:</u>	<u>\$21.28</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Insurance carriers/related activities	20.9%	20.5%
Ambulatory health care services	17.8%	19.6%
Hospitals	12.8%	13.1%
Accounting/tax/bookkeeping/payroll services	8.3%	7.9%
Office administrative services	5.7%	6.0%
Management of companies/enterprises	5.0%	4.4%

**43-3031 Bookkeeping, Accounting, and Auditing Clerks**

Compute, classify, and record numerical data to keep financial records complete. Perform routine calculating, posting, and verifying duties to obtain primary financial data for use in maintaining accounting records. May also check the accuracy of figures, calculations, and postings pertaining to business transactions recorded by other workers.

**Entry-Level Education, Experience, & Training:**

<u>Some College   none   Moderate OJT</u>	
2020 Estimated Employment:	8,125
2030 Projected Employment:	8,025
Growth Rate, 2020-2030:	-1.2%
Annual Average Openings:	875
<u>2021 Median Hourly Wage:</u>	<u>\$22.00</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Wholesale trade	7.0%	6.7%
Accounting/tax/bookkeeping/payroll services	5.6%	5.5%
Self-employed workers	5.0%	4.8%
Management of companies/enterprises	4.9%	4.5%
Specialty trade contractors	4.8%	4.7%
Financial investment/related activities	4.3%	4.6%

**43-3051 Payroll and Timekeeping Clerks**

Compile and record employee time and payroll data. May compute employees' time worked, production, and commission. May compute and post wages and deductions, or prepare paychecks. Excludes "Bookkeeping, Accounting, and Auditing Clerks" (43-3031).

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Moderate OJT</u>	
2020 Estimated Employment:	676
2030 Projected Employment:	599
Growth Rate, 2020-2030:	-11.4%
Annual Average Openings:	57
<u>2021 Median Hourly Wage:</u>	<u>\$23.45</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Accounting/tax/bookkeeping/payroll services	22.0%	21.4%
Elementary/secondary schools (public/private)	10.7%	10.2%
Management of companies/enterprises	8.4%	7.7%
Office administrative services	8.3%	8.9%
Employment services	5.6%	5.5%
Insurance carriers/related activities	4.4%	4.5%

## 43-3061 Procurement Clerks



Compile information and records to draw up purchase orders for procurement of materials and services. Excludes "Wholesale and Retail Buyers, Except Farm Products" (13-1022).

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	271
2030 Projected Employment:	256
Growth Rate, 2020-2030:	-5.5%
Annual Average Openings:	22
2021 Median Hourly Wage:	\$18.87

**Employing Industries**

	2020 Share	2030 Share
Management of companies/enterprises	21.4%	20.3%
Wholesale trade	12.9%	12.9%
Computer/electronic product manufacturing	8.9%	9.4%
Federal government	7.0%	6.6%
Publishing industries	6.3%	6.6%
Ambulatory health care services	3.7%	3.9%

## 43-3071 Tellers



Receive and pay out money. Keep records of money and negotiable instruments involved in a financial institution's various transactions.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Short OJT	
2020 Estimated Employment:	1,685
2030 Projected Employment:	1,413
Growth Rate, 2020-2030:	-16.1%
Annual Average Openings:	133
2021 Median Hourly Wage:	\$17.59

**Employing Industries**

	2020 Share	2030 Share
Credit intermediation/related activities	95.8%	94.6%
Management of companies/enterprises	2.8%	3.3%
Financial investment/related activities	1.4%	1.9%

## 43-3099 Financial Clerks, All Other



All financial clerks not listed separately.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Short OJT	
2020 Estimated Employment:	75
2030 Projected Employment:	77
Growth Rate, 2020-2030:	2.7%
Annual Average Openings:	8
2021 Median Hourly Wage:	\$21.01

**Employing Industries**

	2020 Share	2030 Share
Credit intermediation/related activities	21.3%	20.8%
Management of companies/enterprises	20.0%	19.5%
State government	16.0%	15.6%

## 43-4011 Brokerage Clerks



Perform duties related to the purchase, sale, or holding of securities. Duties include writing orders for stock purchases or sales, computing transfer taxes, verifying stock transactions, accepting and delivering securities, tracking stock price fluctuations, computing equity, distributing dividends, and keeping records of daily transactions and holdings.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Hourly Wage:	\$23.73

**Employing Industries**

	2020 Share	2030 Share
Credit intermediation/related activities	n	n
Financial investment/related activities	n	n
Insurance carriers/related activities	n	n
Self-employed workers	n	n

## 43-4021 Correspondence Clerks



Compose letters or electronic correspondence in reply to requests for merchandise, damage claims, credit and other information, delinquent accounts, incorrect billings, or unsatisfactory services. May gather data to formulate reply and prepare correspondence.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   none   Short OJT		Financial investment/related activities	n	n
2020 Estimated Employment:	n	Hospitals	n	n
2030 Projected Employment:	n	Insurance carriers/related activities	n	n
Growth Rate, 2020-2030:	n	Self-employed workers	n	n
Annual Average Openings:	n			
2021 Median Wage:	n			

## 43-4031 Court, Municipal, and License Clerks



Perform clerical duties for courts of law, municipalities, or government licensing agencies. May prepare docket of cases; secure information for judges and court; prepare agendas or bylaws for town or city council; answer correspondence; keep fiscal records and accounts; issue licenses or permits; and record data, administer tests, or collect fees.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   none   Long OJT		Local government	79.4%	80.8%
2020 Estimated Employment:	476	State government	19.1%	18.1%
2030 Projected Employment:	509	Self-employed workers	1.5%	1.2%
Growth Rate, 2020-2030:	6.9%			
Annual Average Openings:	52			
2021 Median Hourly Wage:	\$18.12			

## 43-4041 Credit Authorizers, Checkers, and Clerks



Authorize credit charges against customers' accounts. Investigate history and credit standing of individuals or business establishments applying for credit. May interview applicants to obtain personal and financial data, determine credit worthiness, process applications, and notify customers of acceptance or rejection of credit.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   none   Moderate OJT		Wholesale trade	31.7%	30.9%
2020 Estimated Employment:	82	Non-store retailers	24.4%	28.4%
2030 Projected Employment:	81	Credit intermediation/related activities	9.8%	8.6%
Growth Rate, 2020-2030:	-1.2%	Architectural/engineering/related services	n	n
Annual Average Openings:	8	Rental/leasing services	n	n
2021 Median Hourly Wage:	\$22.94	Telecommunications	n	n

## 43-4051 Customer Service Representatives



Interact with customers to provide basic or scripted information in response to routine inquiries about products and services. May handle and resolve general complaints. Excludes individuals whose duties are primarily installation, sales, repair, and technical support.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   none   Short OJT		Insurance carriers/related activities	11.4%	11.7%
2020 Estimated Employment:	11,095	Wholesale trade	9.3%	9.0%
2030 Projected Employment:	10,831	Food/beverage stores	8.7%	7.9%
Growth Rate, 2020-2030:	-2.4%	Non-store retailers	5.7%	6.9%
Annual Average Openings:	1,351	Telecommunications	5.4%	4.3%
2021 Median Hourly Wage:	\$18.23	Financial investment/related activities	5.1%	5.5%



**43-4061 Eligibility Interviewers, Government Programs**

Determine eligibility of persons applying to receive assistance from government programs and agency resources, such as welfare, unemployment benefits, social security, and public housing.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   none   Moderate OJT		State government		59.9%	56.9%
2020 Estimated Employment:	558	Local government		22.6%	23.1%
2030 Projected Employment:	592	Social Assistance		14%	16.6%
Growth Rate, 2020-2030:	6.1%	Federal government		2.9%	2.5%
Annual Average Openings:	54				
2021 Median Hourly Wage:	\$22.11				

**43-4071 File Clerks**

File correspondence, cards, invoices, receipts, and other records in alphabetical or numerical order or according to the filing system used. Locate and remove material from file when requested.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   none   Short OJT		Local government		13.9%	14.4%
2020 Estimated Employment:	201	State government		12.4%	11.5%
2030 Projected Employment:	174	Motor vehicle/parts dealers		11.9%	12.1%
Growth Rate, 2020-2030:	-13.4%	Building material/garden supply stores		8.5%	7.5%
Annual Average Openings:	19	Self-employed workers		5.0%	5.2%
2021 Median Hourly Wage:	\$17.74	Legal services		5.0%	5.2%

**43-4081 Hotel, Motel, and Resort Desk Clerks**

Accommodate hotel, motel, and resort patrons by registering and assigning rooms to guests, issuing room keys or cards, transmitting and receiving messages, keeping records of occupied rooms and guests' accounts, making and confirming reservations, and presenting statements to and collecting payments from departing guests.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   none   Short OJT		Accommodation		96.0%	95.6%
2020 Estimated Employment:	888	Amusements/gambling/recreation industries		2.5%	3.1%
2030 Projected Employment:	1,040	Religious/granting/civic/professional orgs		1.0%	0.9%
Growth Rate, 2020-2030:	17.1%				
Annual Average Openings:	173				
2021 Median Hourly Wage:	\$14.00				

**43-4111 Interviewers, Except Eligibility and Loan**

Interview persons by telephone, mail, in person, or by other means for the purpose of completing forms, applications, or questionnaires. Ask specific questions, record answers, and assist persons with completing form. May sort, classify, and file forms.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   none   Short OJT		Colleges/universities/professional schools		31.4%	31.8%
2020 Estimated Employment:	1,311	Hospitals		20.4%	17.9%
2030 Projected Employment:	1,272	Ambulatory health care services		19.5%	20.7%
Growth Rate, 2020-2030:	-3%	Social Assistance		6.0%	6.9%
Annual Average Openings:	154	Nursing/residential care facilities		3.1%	3.1%
2021 Median Hourly Wage:	\$18.23	Office administrative services		2.6%	2.8%

43-4121 Library Assistants, Clerical 

Compile records, and sort, shelve, issue, and receive library materials such as books, electronic media, pictures, cards, slides and microfilm. Locate library materials for loan and replace material in shelving area, stacks, or files according to identification number and title. Register patrons to permit them to borrow library materials.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Short OJT</u>		Local government		70.4%	70.7%
2020 Estimated Employment:	830	Elementary/secondary schools (public/private)		12.5%	12.2%
2030 Projected Employment:	809	Colleges/universities/professional schools		8.7%	8.7%
Growth Rate, 2020-2030:	-2.5%	Other information services		4.7%	4.8%
Annual Average Openings:	123	State government		1.5%	1.5%
2021 Median Hourly Wage:	\$14.10	Junior colleges		1.1%	1.0%

43-4131 Loan Interviewers and Clerks 

Interview loan applicants to elicit information; investigate applicants' backgrounds and verify references; prepare loan request papers; and forward findings, reports, and documents to appraisal department. Review loan papers to ensure completeness, and complete transactions between loan establishment, borrowers, and sellers upon approval of loan.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Short OJT</u>		Credit intermediation/related activities		69.9%	67.9%
2020 Estimated Employment:	980	Management of companies/enterprises		13.6%	13.7%
2030 Projected Employment:	970	Legal services		8.3%	8.9%
Growth Rate, 2020-2030:	-1%	Financial investment/related activities		3.7%	4.3%
Annual Average Openings:	84	Motor vehicle/parts dealers		2.6%	2.9%
2021 Median Hourly Wage:	\$22.85	Local government		1.0%	1.1%

43-4141 New Accounts Clerks 

Interview persons desiring to open accounts in financial institutions. Explain account services available to prospective customers and assist them in preparing applications.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>		Credit intermediation/related activities		96.8%	96.5%
2020 Estimated Employment:	410	Management of companies/enterprises		3.2%	3.5%
2030 Projected Employment:	340				
Growth Rate, 2020-2030:	-17.1%				
Annual Average Openings:	29				
2021 Median Hourly Wage:	\$18.46				

43-4151 Order Clerks 

Receive and process incoming orders for materials, merchandise, classified ads, or services such as repairs, installations, or rental of facilities. Generally receive orders via mail, phone, fax, or other electronic means. Inform customers of receipt, prices, shipping dates, and delays; prepare contracts; and handle complaints.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Some College   none   Short OJT</u>		Wholesale trade		22.8%	24.0%
2020 Estimated Employment:	509	Non-store retailers		17.9%	18.3%
2030 Projected Employment:	409	Telecommunications		11.2%	9.8%
Growth Rate, 2020-2030:	-19.6%	Self-employed workers		9.6%	8.8%
Annual Average Openings:	39	Machinery manufacturing		5.3%	5.6%
2021 Median Hourly Wage:	\$20.87	Management of companies/enterprises		5.1%	5.1%

**43-4161 Human Resources Assistants, Except Payroll and Timekeeping**

Compile and keep personnel records. Record data for each employee, such as address, weekly earnings, absences, amount of sales or production, supervisory reports, and date of and reason for termination. May prepare reports for employment records, file employment records, or search employee files and furnish information to authorized persons.

**Entry-Level Education, Experience, & Training:**

<u>Associate's degree   none   none</u>	
2020 Estimated Employment:	669
2030 Projected Employment:	676
Growth Rate, 2020-2030:	1%
Annual Average Openings:	68
2021 Median Hourly Wage:	\$20.82

**Employing Industries**

	2020 Share	2030 Share
Employment services	17.9%	17.5%
Management/scientific/technical consulting	12.3%	13.8%
Hospitals	7.3%	7.0%
Ambulatory health care services	6.7%	7.1%
Management of companies/enterprises	5.5%	4.9%
Accounting/tax/bookkeeping/payroll services	4.8%	4.6%

**43-4171 Receptionists and Information Clerks**

Answer inquiries and provide information to the general public, customers, visitors, and other interested parties regarding activities conducted at establishment and location of departments, offices, and employees within the organization. Excludes "Switchboard Operators, Including Answering Service" (43-2011).

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Short OJT</u>	
2020 Estimated Employment:	4,467
2030 Projected Employment:	4,730
Growth Rate, 2020-2030:	5.9%
Annual Average Openings:	601
2021 Median Hourly Wage:	\$16.47

**Employing Industries**

	2020 Share	2030 Share
Ambulatory health care services	23.7%	25.1%
Amusements/gambling/recreation industries	13.9%	16.5%
Other professional/scientific/technical services	8.6%	8.4%
Hospitals	7.1%	7.2%
Personal and laundry services	5.9%	6.3%
Nursing/residential care facilities	4.4%	4.5%

**43-4181 Reservation and Transportation Ticket Agents and Travel Clerks**

Make and confirm reservations for transportation or lodging, or sell transportation tickets. May check baggage and direct passengers to designated concourse, pier, or track; deliver tickets and contact individuals and groups to inform them of package tours; or provide tourists with travel or transportation information.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Short OJT</u>	
2020 Estimated Employment:	224
2030 Projected Employment:	266
Growth Rate, 2020-2030:	18.8%
Annual Average Openings:	30
2021 Median Hourly Wage:	\$14.51

**Employing Industries**

	2020 Share	2030 Share
Accommodation	31.7%	32.0%
Transit/ground passenger transport	26.3%	29.3%
Travel arrangement/reservation services	25.0%	20.3%
Air transportation	10.7%	10.5%
Scenic/sightseeing transportation	4.9%	6.8%

**43-4199 Information and Record Clerks, All Other**

All information and record clerks not listed separately.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Short OJT</u>	
2020 Estimated Employment:	267
2030 Projected Employment:	274
Growth Rate, 2020-2030:	2.6%
Annual Average Openings:	30
2021 Median Hourly Wage:	\$21.04

**Employing Industries**

	2020 Share	2030 Share
Federal government	46.1%	43.4%
Local government	13.1%	13.9%
Business support services	7.1%	8.0%
Financial investment/related activities	5.6%	6.2%
Insurance carriers/related activities	5.6%	5.8%
Elementary/secondary schools (public/private)	3.8%	3.7%

43-5011 Cargo and Freight Agents 

Expedite and route movement of incoming and outgoing cargo and freight shipments in airline, train, and trucking terminals and shipping docks. Take orders from customers and arrange pickup of freight and cargo for delivery to loading platform. Prepare and examine bills of lading to determine shipping charges and tariffs.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Short OJT</u>		Support activities for transportation		73.2%	73.9%
2020 Estimated Employment:	369	Couriers and messengers		11.1%	11.5%
2030 Projected Employment:	418	Management of companies/enterprises		7.9%	6.9%
Growth Rate, 2020-2030:	13.3%	Air transportation		3.5%	3.8%
Annual Average Openings:	43	Truck transportation		1.6%	1.4%
<u>2021 Median Hourly Wage:</u>	<u>\$23.02</u>	Warehousing and storage		1.1%	1.0%

43-5021 Couriers and Messengers 

Pick up and deliver messages, documents, packages, and other items between offices or departments within an establishment or directly to other business concerns, traveling by foot, bicycle, motorcycle, automobile, or public conveyance.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Short OJT</u>		Self-employed workers		45.5%	37.7%
2020 Estimated Employment:	752	Couriers and messengers		37.0%	40.8%
2030 Projected Employment:	692	Architectural/engineering/related services		4.4%	5.4%
Growth Rate, 2020-2030:	-8%	Ambulatory health care services		3.5%	4.6%
Annual Average Openings:	63	Hospitals		1.6%	1.9%
<u>2021 Median Hourly Wage:</u>	<u>\$14.27</u>				

43-5031 Public Safety Telecommunicators 

Receive and communicate requests for emergency assistance via telephone, radio, or other system at 911 public safety or emergency operations centers. Take information on crimes, threats, disturbances, fires, medical emergencies, or public safety matters. Provide details to police, fire, or medical personnel. May instruct callers on emergency procedures.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>		Local government		75.0%	76.1%
2020 Estimated Employment:	676	State government		17.2%	16.2%
2030 Projected Employment:	724	Hospitals		3.1%	3.0%
Growth Rate, 2020-2030:	7.1%	Colleges/universities/professional schools		2.5%	2.5%
Annual Average Openings:	69	Business support services		1.0%	1.1%
<u>2021 Median Hourly Wage:</u>	<u>\$22.92</u>				

43-5032 Dispatchers, Except Police, Fire, and Ambulance 

Schedule and dispatch workers, work crews, equipment, or service vehicles for conveyance of materials, freight, or passengers, or for normal installation, service, or emergency repairs rendered outside the place of business. May use radio, telephone, or computer to transmit assignments and compile statistics and reports on work progress.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>		Utilities		12.5%	11.5%
2020 Estimated Employment:	734	Telecommunications		11.7%	9.9%
2030 Projected Employment:	731	Truck transportation		10.8%	11.1%
Growth Rate, 2020-2030:	-0.4%	Non-store retailers		10.2%	10.1%
Annual Average Openings:	67	Wholesale trade		8.2%	8.2%
<u>2021 Median Hourly Wage:</u>	<u>\$21.73</u>	Transit/ground passenger transport		7.6%	9.6%

**43-5041 Meter Readers, Utilities**

Read meter and record consumption of electricity, gas, water, or steam.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Short OJT</u>		Local government		46.9%	45.7%
2020 Estimated Employment:	49	Utilities		30.6%	28.3%
2030 Projected Employment:	46	Heavy/civil engineering construction		n	n
Growth Rate, 2020-2030:	-6.1%	Management of companies/enterprises		n	n
Annual Average Openings:	3	Non-store retailers		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$23.19</u>				

**43-5051 Postal Service Clerks**

Perform a combination of tasks in a US Postal Service (USPS) post office, such as receive letters and parcels; sell postage and revenue stamps, postal cards, and stamped envelopes; fill out and sell money orders; place mail in pigeon holes of mail rack or in bags; and examine mail for correct postage. Includes USPS contractors.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Short OJT</u>		Postal service, federal government		100.0%	100.0%
2020 Estimated Employment:	573				
2030 Projected Employment:	530				
Growth Rate, 2020-2030:	-7.5%				
Annual Average Openings:	41				
<u>2021 Median Hourly Wage:</u>	<u>\$24.64</u>				

**43-5052 Postal Service Mail Carriers**

Sort and deliver mail for the United States Postal Service (USPS). Deliver mail on established route by vehicle or on foot. Includes postal service mail carriers employed by USPS contractors.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Short OJT</u>		Postal service, federal government		100.0%	100.0%
2020 Estimated Employment:	1,545				
2030 Projected Employment:	1,426				
Growth Rate, 2020-2030:	-7.7%				
Annual Average Openings:	93				
<u>2021 Median Hourly Wage:</u>	<u>\$24.32</u>				

**43-5053 Postal Service Mail Sorters, Processors, and Processing Machine Operators**

Prepare incoming and outgoing mail for distribution for the US Postal Service (USPS). Examine, sort, and route mail. Load, operate, or adjust and repair mail processing, sorting, and canceling machinery. Keep records of shipments, pouches, and sacks, and perform other duties related to mail handling within the postal service. Includes USPS contractors.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Short OJT</u>		Postal service, federal government		100.0%	100.0%
2020 Estimated Employment:	655				
2030 Projected Employment:	575				
Growth Rate, 2020-2030:	-12.2%				
Annual Average Openings:	46				
<u>2021 Median Hourly Wage:</u>	<u>\$21.77</u>				

**43-5061 Production, Planning, and Expediting Clerks**

Coordinate and expedite the flow of work and materials in or between departments of an establishment according to production schedule. Review and distribute production, work, and shipment schedules; confer with department supervisors on work progress and completion dates; and compile reports on work progress, inventory, costs, and production problems.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Moderate OJT</u>	
2020 Estimated Employment:	1,242
2030 Projected Employment:	1,332
Growth Rate, 2020-2030:	7.2%
Annual Average Openings:	139
<u>2021 Median Hourly Wage:</u>	<u>\$26.51</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Fabricated metal product manufacturing	13.0%	13.3%
Machinery manufacturing	6.6%	6.6%
Plastics/rubber products manufacturing	5.6%	5.3%
Wholesale trade	4.8%	4.7%
Chemical manufacturing	n	n
<u>Computer/electronic product manufacturing</u>	<u>n</u>	<u>n</u>

**43-5071 Shipping, Receiving, and Inventory Clerks**

Verify and maintain records on incoming and outgoing shipments involving inventory. Duties include verifying and recording incoming merchandise or material and arranging for the transportation of products. May prepare items for shipment.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Short OJT</u>	
2020 Estimated Employment:	4,021
2030 Projected Employment:	3,859
Growth Rate, 2020-2030:	-4%
Annual Average Openings:	360
<u>2021 Median Hourly Wage:</u>	<u>\$18.13</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Wholesale trade	20.0%	19.8%
Fabricated metal product manufacturing	7.1%	7.4%
Computer/electronic product manufacturing	7.1%	7.2%
Building material/garden supply stores	6.1%	5.4%
Non-store retailers	5.7%	6.5%
<u>Food/beverage stores</u>	<u>3.8%</u>	<u>3.5%</u>

**43-5111 Weighers, Measurers, Checkers, and Samplers, Recordkeeping**

Weigh, measure, and check materials, supplies, and equipment for the purpose of keeping relevant records. Duties are primarily clerical by nature. Includes workers who collect and keep record of samples of products or materials. Excludes "Inspectors, Testers, Sorters, Samplers, and Weighers" (51-9061).

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Short OJT</u>	
2020 Estimated Employment:	204
2030 Projected Employment:	222
Growth Rate, 2020-2030:	8.8%
Annual Average Openings:	22
<u>2021 Median Hourly Wage:</u>	<u>\$22.44</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Warehousing and storage	26.5%	27.9%
Mining (except oil/gas)	9.3%	9.5%
Food/beverage stores	8.3%	7.2%
Wholesale trade	7.8%	7.7%
General merchandise stores	6.9%	5.9%
<u>Building material/garden supply stores</u>	<u>5.9%</u>	<u>5.0%</u>

**43-6011 Executive Secretaries and Executive Administrative Assistants**

Provide high-level administrative support by conducting research, preparing statistical reports, and handling information requests, as well as performing routine administrative functions such as preparing correspondence, receiving visitors, arranging conference calls, and scheduling meetings. May also train and supervise lower-level clerical staff.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   &lt; 5 yrs   none</u>	
2020 Estimated Employment:	1,553
2030 Projected Employment:	1,269
Growth Rate, 2020-2030:	-18.3%
Annual Average Openings:	123
<u>2021 Median Hourly Wage:</u>	<u>\$29.64</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
State government	11.1%	10.2%
Colleges/universities/professional schools	10.3%	10.2%
Elementary/secondary schools (public/private)	9.4%	9.2%
Local government	5.9%	5.9%
Management of companies/enterprises	5.2%	4.8%
<u>Religious/granting/civic/professional orgs</u>	<u>5.1%</u>	<u>4.9%</u>

**43-6012 Legal Secretaries and Administrative Assistants**

Perform secretarial duties using legal terminology, procedures, and documents. Prepare legal papers and correspondence, such as summonses, complaints, motions, and subpoenas. May also assist with legal research.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	576
2030 Projected Employment:	461
Growth Rate, 2020-2030:	-20%
Annual Average Openings:	43
2021 Median Hourly Wage:	\$22.90

**Employing Industries**

	2020 Share	2030 Share
Legal services	89.1%	88.5%
Local government	5.4%	5.4%
State government	2.8%	2.6%

**43-6013 Medical Secretaries and Administrative Assistants**

Perform secretarial duties using specific knowledge of medical terminology and hospital, clinic, or laboratory procedures. Duties may include scheduling appointments, billing patients, and compiling and recording medical charts, reports, and correspondence.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	3,378
2030 Projected Employment:	3,755
Growth Rate, 2020-2030:	11.2%
Annual Average Openings:	419
2021 Median Hourly Wage:	\$18.21

**Employing Industries**

	2020 Share	2030 Share
Ambulatory health care services	67.1%	68.0%
Hospitals	23.6%	22.6%
Insurance carriers/related activities	6.3%	6.5%

**43-6014 Secretaries and Administrative Assistants, Except Legal, Medical, and Executive**

Perform routine administrative functions such as drafting correspondence, scheduling appointments, organizing and maintaining paper and electronic files, or providing information to callers. Excludes legal, medical, and executive secretaries (43-6011 through 43-6013).

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Short OJT	
2020 Estimated Employment:	10,434
2030 Projected Employment:	9,650
Growth Rate, 2020-2030:	-7.5%
Annual Average Openings:	994
2021 Median Hourly Wage:	\$18.29

**Employing Industries**

	2020 Share	2030 Share
Elementary/secondary schools (public/private)	14.0%	13.7%
Local government	9.0%	9.0%
Colleges/universities/professional schools	6.7%	6.6%
Religious/granting/civic/professional orgs	5.4%	5.1%
Ambulatory health care services	4.5%	4.8%
Hospitals	3.4%	3.4%

**43-9021 Data Entry Keyers**

Operate data entry device, such as keyboard or photo composing perforator. Duties may include verifying data and preparing materials for printing. Excludes "Word Processors and Typists" (43-9022).

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Short OJT	
2020 Estimated Employment:	1,008
2030 Projected Employment:	782
Growth Rate, 2020-2030:	-22.4%
Annual Average Openings:	74
2021 Median Hourly Wage:	\$17.48

**Employing Industries**

	2020 Share	2030 Share
Data processing/hosting/related services	11.3%	11.6%
Non-store retailers	9.1%	11.0%
Wholesale trade	7.9%	7.5%
Accounting/tax/bookkeeping/payroll services	7.3%	7.2%
State government	6.9%	6.3%
Employment services	6.5%	6.4%

43-9022 Word Processors and Typists 

Use word processor, computer, or typewriter to type letters, reports, forms, or other material from rough draft, corrected copy, or voice recording. May perform other clerical duties as assigned.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Short OJT</u>		Non-store retailers		37.7%	42.0%
2020 Estimated Employment:	69	Local government		21.7%	20.0%
2030 Projected Employment:	50	State government		8.7%	8.0%
Growth Rate, 2020-2030:	-27.5%	Elementary/secondary schools (public/private)		n	n
Annual Average Openings:	5	Federal government		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$17.59</u>	Real estate		n	n

43-9031 Desktop Publishers 

Format typescript and graphic elements using computer software to produce publication-ready material.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Associate's degree   none   Short OJT</u>		Colleges/universities/professional schools		n	n
2020 Estimated Employment:	n	Computer/electronic product manufacturing		n	n
2030 Projected Employment:	n	Educational support services		n	n
Growth Rate, 2020-2030:	n	Self-employed workers		n	n
Annual Average Openings:	n	State government		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$22.55</u>	Wholesale trade		n	n

43-9041 Insurance Claims and Policy Processing Clerks 

Process new insurance policies, modified existing policies, and claims forms. Obtain information from policyholders to verify accuracy and completeness of claims forms, applications and related documents, and company records. Update existing policies and company records to reflect changes requested by policyholders and insurance company representatives.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>		Insurance carriers/related activities		95.7%	94.9%
2020 Estimated Employment:	1,254	Computer systems design/related services		2.1%	2.5%
2030 Projected Employment:	1,258	Office administrative services		1.8%	2.1%
Growth Rate, 2020-2030:	0.3%				
Annual Average Openings:	118				
<u>2021 Median Hourly Wage:</u>	<u>\$23.10</u>				

43-9051 Mail Clerks and Mail Machine Operators, Except Postal Service 

Prepare incoming and outgoing mail for distribution. Time-stamp, open, read, sort, and route incoming mail; and address, seal, stamp, fold, stuff, and affix postage to outgoing mail or packages. Duties may also include keeping necessary records and completed forms.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Short OJT</u>		Publishing industries		14.9%	13.1%
2020 Estimated Employment:	355	Printing/related support activities		14.7%	11.0%
2030 Projected Employment:	328	Advertising/related services		14.4%	15.9%
Growth Rate, 2020-2030:	-7.6%	Data processing/hosting/related services		6.5%	7.0%
Annual Average Openings:	35	Colleges/universities/professional schools		6.5%	6.7%
<u>2021 Median Hourly Wage:</u>	<u>\$15.80</u>	State government		5.9%	5.8%



**43-9061 Office Clerks, General**

Perform duties too varied and diverse to be classified in a specific office clerical occupation, requiring knowledge of office systems and procedures. Duties are assigned in accordance with office procedures of the establishment, and may answering telephones, bookkeeping, typing or word processing, office machine operation, and filing.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Short OJT</u>	
2020 Estimated Employment:	16,772
2030 Projected Employment:	16,646
Growth Rate, 2020-2030:	-0.8%
Annual Average Openings:	1,890
2021 Median Hourly Wage:	\$19.21

**Employing Industries**

	2020 Share	2030 Share
Specialty trade contractors	6.6%	6.4%
Ambulatory health care services	6.3%	6.6%
Wholesale trade	6.0%	5.7%
Employment services	4.8%	4.7%
Hospitals	3.8%	3.6%
Religious/granting/civic/professional orgs	3.4%	3.2%

**43-9071 Office Machine Operators, Except Computer**

Operate one or more of a variety of office machines, such as photocopying, photographic, and duplicating machines, or other office machines. Excludes "Billing and Posting Clerks" (43-3021) and "Mail Clerks and Mail Machine Operators, Except Postal Service" (43-9051).

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Short OJT</u>	
2020 Estimated Employment:	426
2030 Projected Employment:	379
Growth Rate, 2020-2030:	-11%
Annual Average Openings:	40
2021 Median Hourly Wage:	\$14.40

**Employing Industries**

	2020 Share	2030 Share
Employment services	26.5%	26.4%
Wholesale trade	17.4%	16.4%
Management/scientific/technical consulting	16%	18.2%
Data processing/hosting/related services	13.9%	13.7%
Ambulatory health care services	3.8%	3.7%
Accounting/tax/bookkeeping/payroll services	3.5%	3.4%

**43-9081 Proofreaders and Copy Markers**

Read transcript or proof type setup to detect and mark for correction any grammatical, typographical, or compositional errors. Excludes workers whose primary duty is editing copy. Includes proofreaders of braille.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	41
2030 Projected Employment:	43
Growth Rate, 2020-2030:	4.9%
Annual Average Openings:	6
2021 Median Hourly Wage:	\$23.23

**Employing Industries**

	2020 Share	2030 Share
Publishing industries	43.9%	41.9%
Management/scientific/technical consulting	22.0%	25.6%
Educational support services	n	n
Printing/related support activities	n	n
Self-employed workers	n	n
Specialized design services	n	n

**43-9111 Statistical Assistants**

Compile and compute data according to statistical formulas for use in statistical studies. May perform actuarial computations and compile charts and graphs for use by actuaries. Includes actuarial clerks.

**Entry-Level Education, Experience, & Training:**

<u>Bachelor's degree   none   none</u>	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Wage:	n

**Employing Industries**

	2020 Share	2030 Share
Accounting/tax/bookkeeping/payroll services	n	n
Colleges/universities/professional schools	n	n
Insurance carriers/related activities	n	n
Management of companies/enterprises	n	n
Self-employed workers	n	n
State government	n	n

**43-9199 Office and Administrative Support Workers, All Other**



All office and administrative support workers not listed separately.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Short OJT</u>		Elementary/secondary schools (public/private)		33.0%	31.5%
2020 Estimated Employment:	361	Office administrative services		14.1%	15.1%
2030 Projected Employment:	397	Financial investment/related activities		10.0%	10.8%
Growth Rate, 2020-2030:	10%	Ambulatory health care services		6.9%	7.3%
Annual Average Openings:	46	Federal government		6.7%	5.8%
<u>2021 Median Hourly Wage:</u>	<u>\$10.38</u>	Self-employed workers		5.5%	4.8%

**45-1011 First-Line Supervisors of Farming, Fishing, and Forestry Workers**



Directly supervise and coordinate the activities of agricultural, forestry, aquacultural, and related workers. Excludes "First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers" (37-1012).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   &lt; 5 yrs   none</u>		Crop production		45.3%	47.0%
2020 Estimated Employment:	214	Self-employed workers		16.8%	15.5%
2030 Projected Employment:	232	Forestry and logging		7.0%	6.5%
Growth Rate, 2020-2030:	8.4%	Animal production/aquaculture		6.5%	6.5%
Annual Average Openings:	33	Wholesale trade		4.7%	4.3%
<u>2021 Median Hourly Wage:</u>	<u>\$23.37</u>				

**45-2011 Agricultural Inspectors**



Inspect agricultural commodities, processing equipment, and facilities, and fish and logging operations, to ensure compliance with regulations and laws governing health, quality, and safety.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   none   Moderate OJT</u>		Federal government		n	n
2020 Estimated Employment:	n	State government		n	n
2030 Projected Employment:	n				
Growth Rate, 2020-2030:	n				
Annual Average Openings:	n				
<u>2021 Median Wage:</u>	<u>n</u>				

**45-2021 Animal Breeders**



Select and breed animals according to genealogy, characteristics, and offspring. May require knowledge of artificial insemination techniques and equipment use. May keep records on heats, birth intervals, or pedigree. Excludes Animal Scientists whose main function is research and Animal Caretakers who may breed animals as part of caretaking duties.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Short OJT</u>		Animal production/aquaculture		100.0%	100.0%
2020 Estimated Employment:	22				
2030 Projected Employment:	25				
Growth Rate, 2020-2030:	13.6%				
Annual Average Openings:	4				
<u>2021 Median Wage:</u>	<u>n/a</u>				

45-2041 Graders and Sorters, Agricultural Products 

Grade, sort, or classify unprocessed food and other agricultural products by size, weight, color, or condition. Excludes “Agricultural Inspectors” (45-2011).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
No formal education   none   Short OJT		Crop production		85.4%	85.4%
2020 Estimated Employment:	41	Animal production/aquaculture		14.6%	14.6%
2030 Projected Employment:	41				
Growth Rate, 2020-2030:	0%				
Annual Average Openings:	6				
2021 Median Wage:	n				

45-2091 Agricultural Equipment Operators 

Drive and control equipment to support agricultural activities such as tilling soil; planting, cultivating, and harvesting crops; feeding and herding livestock; or removing animal waste. May perform tasks such as crop baling or hay bucking, or operate stationary equipment for post-harvest tasks such as husking, shelling, threshing, and ginning.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
No formal education   none   Moderate OJT		Crop production		72.6%	73.8%
2020 Estimated Employment:	226	Animal production/aquaculture		9.7%	9.9%
2030 Projected Employment:	263	Self-employed workers		5.8%	4.9%
Growth Rate, 2020-2030:	16.4%	Wholesale trade		1.3%	1.1%
Annual Average Openings:	42				
2021 Median Wage:	n				

45-2092 Farmworkers and Laborers, Crop, Nursery, and Greenhouse 

Manually plant, cultivate, and harvest vegetables, fruits, nuts, or field crops. Use hand tools, such as shovels, trowels, hoes, tampers, pruning hooks, shears, and knives. May till and fertilize soil; transplant, weed, thin, or prune crops; apply pesticides; irrigate; or clean, grade, sort, pack, and load harvest. May repair fences and farm buildings.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
No formal education   none   Short OJT		Crop production		79.9%	81.0%
2020 Estimated Employment:	2,108	Self-employed workers		7.3%	6.7%
2030 Projected Employment:	2,219	Building material/garden supply stores		5.9%	5.5%
Growth Rate, 2020-2030:	5.3%	Wholesale trade		3.6%	3.2%
Annual Average Openings:	350	Animal production/aquaculture		2.2%	2.2%
2021 Median Hourly Wage:	\$14.23				

45-2093 Farmworkers, Farm, Ranch, and Aquacultural Animals 

Tend live farm, ranch, open range, or aquacultural animals such as cattle, sheep, swine, goats, horses, poultry, rabbits, finfish, shellfish, and bees. Feed, water, herd, graze, milk, castrate, brand, or weigh animals. Maintain records; examine animals for disease or injury; assist with births; administer medicines or vaccines; or clean and maintain housing.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
No formal education   none   Short OJT		Animal production/aquaculture		76.1%	75.4%
2020 Estimated Employment:	844	Support activities, Agriculture/Forestry		n	n
2030 Projected Employment:	901	Amusements/gambling/recreation industries		4.6%	5.2%
Growth Rate, 2020-2030:	6.8%	State government		3.8%	3.3%
Annual Average Openings:	143	Self-employed workers		1.8%	1.6%
2021 Median Hourly Wage:	\$14.33	Crop production		1.5%	1.6%

45-2099 Agricultural Workers, All Other 

All agricultural workers not listed separately.

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Short OJT</u>	
2020 Estimated Employment:	20
2030 Projected Employment:	22
Growth Rate, 2020-2030:	10%
Annual Average Openings:	3
2021 Median Wage:	n/a

**Employing Industries**

	2020 Share	2030 Share
Animal production/aquaculture	50.0%	50.0%
Crop production	45.0%	45.5%
Self-employed workers	5.0%	4.6%

45-4011 Forest and Conservation Workers 

Under supervision, perform manual labor necessary to develop, maintain, or protect areas such as forests, forested areas, woodlands, wetlands, and rangelands through such activities as raising and transporting seedlings; combating insects, pests, and diseases harmful to plant life; and building structures to control water, erosion, and leaching of soil.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Moderate OJT</u>	
2020 Estimated Employment:	39
2030 Projected Employment:	37
Growth Rate, 2020-2030:	-5.1%
Annual Average Openings:	6
2021 Median Hourly Wage:	\$14.43

**Employing Industries**

	2020 Share	2030 Share
Religious/granting/civic/professional orgs	46.2%	54.1%
Self-employed workers	15.4%	13.5%
Colleges/universities/professional schools	n	n
State government	n	n
Wood product manufacturing	n	n

45-4021 Fallers 

Use axes or chainsaws to fell trees using knowledge of tree characteristics and cutting techniques to control direction of fall and minimize tree damage.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Moderate OJT</u>	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Wage:	n

**Employing Industries**

	2020 Share	2030 Share
Forestry and logging	n	n
Self-employed workers	n	n

45-4022 Logging Equipment Operators 

Drive logging tractor or wheeled vehicle equipped with one or more accessories, such as bulldozer blade, frontal shear, grapple, logging arch, cable winches, hoisting rack, or crane boom, to fell tree; to skid, load, unload, or stack logs; or to pull stumps or clear brush. Includes operating stand-alone logging machines, such as log chippers.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Moderate OJT</u>	
2020 Estimated Employment:	240
2030 Projected Employment:	247
Growth Rate, 2020-2030:	2.9%
Annual Average Openings:	38
2021 Median Hourly Wage:	\$18.44

**Employing Industries**

	2020 Share	2030 Share
Forestry and logging	79.2%	79.8%
Self-employed workers	12.9%	12.6%
Crop production	1.3%	1.6%

## 45-4023 Log Graders and Scalers



Grade logs or estimate the marketable content or value of logs or pulpwood in sorting yards, millpond, log deck, or similar locations. Inspect logs for defects or measure logs to determine volume. Excludes "Buyers and Purchasing Agents, Farm Products" (13-1021).

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	55
2030 Projected Employment:	50
Growth Rate, 2020-2030:	-9.1%
Annual Average Openings:	8
2021 Median Hourly Wage:	\$23.17

**Employing Industries**

	2020 Share	2030 Share
Wood product manufacturing	67.3%	64.0%
Forestry and logging	20.0%	22.0%

## 45-4029 Logging Workers, All Other



All logging workers not listed separately.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Wage:	n

**Employing Industries**

	2020 Share	2030 Share
Forestry and logging	n	n
Self-employed workers	n	n

## 47-1011 First-Line Supervisors of Construction Trades and Extraction Workers



Directly supervise and coordinate activities of construction or extraction workers.

**Entry-Level Education, Experience, & Training:**

HS Diploma   5+ yrs   none	
2020 Estimated Employment:	2,722
2030 Projected Employment:	2,927
Growth Rate, 2020-2030:	7.5%
Annual Average Openings:	283
2021 Median Hourly Wage:	\$30.43

**Employing Industries**

	2020 Share	2030 Share
Specialty trade contractors	28.4%	28.5%
Construction of buildings	23.4%	24.1%
State government	11.3%	10.6%
Self-employed workers	10.6%	10.1%
Local government	10.0%	10.1%
Heavy/civil engineering construction	7.6%	7.7%

## 47-2011 Boilermakers



Construct, assemble, maintain, or repair stationary steam boilers and boiler house auxiliaries. Align structures or plate sections to assemble boiler frame tanks or vats, using blueprints. Use hand and power tools, plumb bobs, levels, wedges, dogs, or turnbuckles. Test assembled vessels, direct boiler and furnace cleaning, or inspect and repair fittings.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Apprenticeship	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Wage:	n

**Employing Industries**

	2020 Share	2030 Share
Colleges/universities/professional schools	n	n

47-2021 Brickmasons and Blockmasons 

Lay and bind building materials, such as brick, structural tile, concrete block, cinder block, glass block, and terra-cotta block, with mortar and other substances, to construct or repair walls, partitions, arches, sewers, and other structures. Mortarless segmental concrete masonry wall unit installers are classified Landscaping and Groundskeeping Workers.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Apprenticeship</u>	
2020 Estimated Employment:	289
2030 Projected Employment:	284
Growth Rate, 2020-2030:	-1.7%
Annual Average Openings:	27
<u>2021 Median Hourly Wage:</u>	<u>\$29.43</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Specialty trade contractors	49.8%	47.5%
State government	16.6%	16.9%
Self-employed workers	15.2%	15.9%
Services to building/dwellings	13.8%	14.8%
Construction of buildings	2.4%	2.5%
Colleges/universities/professional schools	1.4%	1.4%

47-2022 Stonemasons 

Build stone structures, such as piers, walls, and abutments. Lay walks, curbstones, or special types of masonry for vats, tanks, and floors.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Apprenticeship</u>	
2020 Estimated Employment:	131
2030 Projected Employment:	131
Growth Rate, 2020-2030:	0%
Annual Average Openings:	12
<u>2021 Median Hourly Wage:</u>	<u>\$22.55</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Specialty trade contractors	49.6%	50.4%
Services to building/dwellings	35.1%	34.4%
Self-employed workers	15.3%	15.3%

47-2031 Carpenters 

Construct, erect, install, or repair structures and fixtures made of wood and comparable materials, such as concrete forms; building frameworks such as partitions, joists, studding, and rafters; and wood stairways, window and door frames, and hardwood floors. May install cabinets, siding, drywall, and batt or roll insulation. Includes brattice builders.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Apprenticeship</u>	
2020 Estimated Employment:	4,077
2030 Projected Employment:	4,232
Growth Rate, 2020-2030:	3.8%
Annual Average Openings:	396
<u>2021 Median Hourly Wage:</u>	<u>\$23.22</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Construction of buildings	36.1%	34.8%
Specialty trade contractors	24.1%	25.2%
Self-employed workers	23.6%	23.4%
Employment services	4.0%	4.3%
Wood product manufacturing	1.8%	1.6%
Building material/garden supply stores	1.4%	1.3%

47-2041 Carpet Installers 

Lay and install carpet from rolls or blocks on floors. Install padding and trim flooring materials. Excludes "Floor Layers, Except Carpet, Wood, and Hard Tiles" (47-2042).

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Short OJT</u>	
2020 Estimated Employment:	113
2030 Projected Employment:	108
Growth Rate, 2020-2030:	-4.4%
Annual Average Openings:	9
<u>2021 Median Hourly Wage:</u>	<u>\$22.61</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Specialty trade contractors	52.2%	50.0%
Self-employed workers	27.4%	28.7%
Furniture/home furnishings stores	20.4%	21.3%

**47-2042 Floor Layers, Except Carpet, Wood, and Hard Tiles**

Apply blocks, strips, or sheets of shock-absorbing, sound-deadening, or decorative coverings to floors.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>No formal education   none   Moderate OJT</u>		Furniture/home furnishings stores		n	n
2020 Estimated Employment:	n	Self-employed workers		n	n
2030 Projected Employment:	n	Specialty trade contractors		n	n
Growth Rate, 2020-2030:	n				
Annual Average Openings:	n				
<u>2021 Median Hourly Wage:</u>	<u>\$23.50</u>				

**47-2043 Floor Sanders and Finishers**

Scrape and sand wooden floors to smooth surfaces using floor scraper and floor sanding machine, and apply coats of finish.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>No formal education   none   Moderate OJT</u>		Furniture/home furnishings stores		n	n
2020 Estimated Employment:	n	Self-employed workers		n	n
2030 Projected Employment:	n	Specialty trade contractors		n	n
Growth Rate, 2020-2030:	n				
Annual Average Openings:	n				
<u>2021 Median Wage:</u>	<u>n/a</u>				

**47-2044 Tile and Stone Setters**

Apply hard tile, stone, and comparable materials to walls, floors, ceilings, countertops, and roof decks.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>No formal education   none   Long OJT</u>		Specialty trade contractors		42.0%	46.1%
2020 Estimated Employment:	69	Self-employed workers		27.5%	25.0%
2030 Projected Employment:	76	Building material/garden supply stores		20.3%	18.4%
Growth Rate, 2020-2030:	10.1%	Nonmetallic mineral product manufacturing		5.8%	5.3%
Annual Average Openings:	7	Furniture/home furnishings stores		4.4%	5.3%
<u>2021 Median Hourly Wage:</u>	<u>\$26.37</u>				

**47-2051 Cement Masons and Concrete Finishers**

Smooth and finish surfaces of poured concrete, such as floors, walks, sidewalks, roads, or curbs using a variety of hand and power tools. Align forms for sidewalks, curbs, or gutters; patch voids; and use saws to cut expansion joints. Mortarless segmental concrete masonry wall unit installers are classified Landscaping and Groundskeeping Workers.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>No formal education   none   Moderate OJT</u>		Specialty trade contractors		86.4%	85.9%
2020 Estimated Employment:	235	Nonmetallic mineral product manufacturing		5.1%	5.8%
2030 Projected Employment:	241	Employment services		4.3%	4.2%
Growth Rate, 2020-2030:	2.6%	Miscellaneous store retailers		3.4%	3.3%
Annual Average Openings:	23				
<u>2021 Median Hourly Wage:</u>	<u>\$22.56</u>				

**47-2061 Construction Laborers**



Perform physical labor tasks at construction sites. May operate hand or power tools such as air hammers, earth tampers, cement mixers, surveying and measuring equipment, or other equipment and instruments. Clean and prepare sites, dig trenches, set braces to support excavations, erect scaffolding, and clean rubble, debris, or waste materials.

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Short OJT</u>	
2020 Estimated Employment:	3,552
2030 Projected Employment:	3,909
Growth Rate, 2020-2030:	10.1%
Annual Average Openings:	398
2021 Median Hourly Wage:	\$18.63

**Employing Industries**

	2020 Share	2030 Share
Specialty trade contractors	34.1%	34.6%
Self-employed workers	23.2%	21.7%
Heavy/civil engineering construction	19.0%	18.8%
Construction of buildings	16.9%	18.3%
Employment services	1.9%	1.9%

**47-2071 Paving, Surfacing, and Tamping Equipment Operators**



Operate equipment used for applying concrete, asphalt, or other materials to road beds, parking lots, or airport runways and taxiways or for tamping gravel, dirt, or other materials. Includes concrete and asphalt paving machine operators, form tampers, tamping machine operators, and stone spreader operators.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Moderate OJT</u>	
2020 Estimated Employment:	256
2030 Projected Employment:	275
Growth Rate, 2020-2030:	7.4%
Annual Average Openings:	30
2021 Median Hourly Wage:	\$23.22

**Employing Industries**

	2020 Share	2030 Share
Specialty trade contractors	58.2%	57.8%
Heavy/civil engineering construction	40.2%	40.7%
Self-employed workers	1.6%	1.5%

**47-2073 Operating Engineers and Other Construction Equipment Operators**



Operate pile drivers mounted on skids, barges, crawler treads, or locomotive cranes to drive pilings for retaining walls, bulkheads, and foundations of structures such as buildings, bridges, and piers.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Moderate OJT</u>	
2020 Estimated Employment:	1,375
2030 Projected Employment:	1,484
Growth Rate, 2020-2030:	7.9%
Annual Average Openings:	160
2021 Median Hourly Wage:	\$23.27

**Employing Industries**

	2020 Share	2030 Share
Specialty trade contractors	45.8%	45.2%
Heavy/civil engineering construction	18.0%	18.3%
Local government	9.5%	9.6%
Mining (except oil/gas)	8.3%	8.6%
Construction of buildings	7.4%	7.6%
Waste management/remediation services	1.8%	1.8%

**47-2081 Drywall and Ceiling Tile Installers**



Apply plasterboard or other wallboard to ceilings or interior walls of buildings. Apply or mount acoustical tiles or blocks, strips, or sheets of shock-absorbing materials to ceilings and walls of buildings to reduce or reflect sound. Includes lathers who fasten lath to walls or ceilings to provide support for plaster, fireproofing, or acoustical material.

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Moderate OJT</u>	
2020 Estimated Employment:	424
2030 Projected Employment:	454
Growth Rate, 2020-2030:	7.1%
Annual Average Openings:	39
2021 Median Hourly Wage:	\$22.29

**Employing Industries**

	2020 Share	2030 Share
Specialty trade contractors	75.7%	76.2%
Self-employed workers	16.0%	15.4%
Construction of buildings	5.2%	5.3%



**47-2082 Tapers**



Seal joints between plasterboard or other wallboard to prepare wall surface for painting or papering.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>No formal education   none   Moderate OJT</u>		Self-employed workers		n	n
2020 Estimated Employment:	n	Specialty trade contractors		n	n
2030 Projected Employment:	n				
Growth Rate, 2020-2030:	n				
Annual Average Openings:	n				
<u>2021 Median Hourly Wage:</u>	<u>\$24.39</u>				

**47-2111 Electricians**



Install, maintain, and repair electrical wiring, equipment, and fixtures. Ensure that work is in accordance with relevant codes. May install or service street lights, intercom systems, or electrical control systems. Excludes "Security and Fire Alarm Systems Installers" (49-2098).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Apprenticeship</u>		Specialty trade contractors		76.5%	77.4%
2020 Estimated Employment:	2,968	Self-employed workers		7.8%	7.3%
2030 Projected Employment:	3,297	Employment services		2.9%	2.9%
Growth Rate, 2020-2030:	11.1%	Electrical equipment/appliance manufacturing		2.0%	2.0%
Annual Average Openings:	354	Colleges/universities/professional schools		1.7%	1.6%
<u>2021 Median Hourly Wage:</u>	<u>\$28.76</u>				

**47-2121 Glaziers**



Install glass in windows, skylights, store fronts, and display cases, or on surfaces, such as building fronts, interior walls, ceilings, and tabletops.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Apprenticeship</u>		Management of companies/enterprises		39.5%	37.5%
2020 Estimated Employment:	276	Repair and maintenance		28.3%	30.2%
2030 Projected Employment:	291	Specialty trade contractors		18.1%	18.6%
Growth Rate, 2020-2030:	5.4%	Nonmetallic mineral product manufacturing		9.4%	8.9%
Annual Average Openings:	32	Self-employed workers		2.9%	3.1%
<u>2021 Median Hourly Wage:</u>	<u>\$23.37</u>				

**47-2131 Insulation Workers, Floor, Ceiling, and Wall**



Line and cover structures with insulating materials. May work with batt, roll, or blown insulation materials.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>No formal education   none   Short OJT</u>		Specialty trade contractors		88.4%	88.3%
2020 Estimated Employment:	215	Construction of buildings		3.7%	3.5%
2030 Projected Employment:	231	Religious/granting/civic/professional orgs		n	n
Growth Rate, 2020-2030:	7.4%	Social Assistance		n	n
Annual Average Openings:	22				
<u>2021 Median Hourly Wage:</u>	<u>\$18.46</u>				

47-2141 Painters, Construction and Maintenance 

Paint walls, equipment, buildings, bridges, and other structural surfaces, using brushes, rollers, and spray guns. May remove old paint to prepare surface prior to painting. May mix colors or oils to obtain desired color or consistency. Excludes "Paperhangers" (47-2142).

**Entry-Level Education, Experience, & Training:**

No formal education   none   Moderate OJT	
2020 Estimated Employment:	1,274
2030 Projected Employment:	1,367
Growth Rate, 2020-2030:	7.3%
Annual Average Openings:	122
2021 Median Hourly Wage:	\$22.25

**Employing Industries**

	2020 Share	2030 Share
Specialty trade contractors	44.4%	45.0%
Self-employed workers	36.0%	34.5%
Construction of buildings	10.0%	10.2%
Colleges/universities/professional schools	1.6%	1.5%
Waste management/remediation services	1.4%	1.5%
Nursing/residential care facilities	1.4%	1.5%

47-2151 Pipelayers 

Lay pipe for storm or sanitation sewers, drains, and water mains. Perform any combination of the following tasks: grade trenches or culverts, position pipe, or seal joints. Excludes "Welders, Cutters, Solderers, and Brazers" (51-4121).

**Entry-Level Education, Experience, & Training:**

No formal education   none   Short OJT	
2020 Estimated Employment:	53
2030 Projected Employment:	52
Growth Rate, 2020-2030:	-1.9%
Annual Average Openings:	6
2021 Median Hourly Wage:	\$28.73

**Employing Industries**

	2020 Share	2030 Share
Heavy/civil engineering construction	64.2%	59.6%
Specialty trade contractors	15.1%	15.4%
Local government	9.4%	11.5%
Self-employed workers	3.8%	3.9%
Elementary/secondary schools (public/private)	n	n
Utilities	n	n

47-2152 Plumbers, Pipefitters, and Steamfitters 

Assemble, install, alter, and repair pipelines or pipe systems that carry water, steam, air, or other liquids or gases. May install heating and cooling equipment and mechanical control systems. Includes sprinkler fitters.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Apprenticeship	
2020 Estimated Employment:	1,912
2030 Projected Employment:	2,048
Growth Rate, 2020-2030:	7.1%
Annual Average Openings:	214
2021 Median Hourly Wage:	\$28.72

**Employing Industries**

	2020 Share	2030 Share
Specialty trade contractors	72.3%	72.7%
Self-employed workers	9.5%	9.0%
Heavy/civil engineering construction	5.2%	5.3%
Wholesale trade	1.9%	1.9%
Non-store retailers	1.7%	1.6%
Local government	1.3%	1.3%

47-2161 Plasterers and Stucco Masons 

Apply interior or exterior plaster, cement, stucco, or similar materials. May also set ornamental plaster.

**Entry-Level Education, Experience, & Training:**

No formal education   none   Long OJT	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Hourly Wage:	\$16.31

**Employing Industries**

	2020 Share	2030 Share
Self-employed workers	n	n
Specialty trade contractors	n	n

**47-2181 Roofers**



Cover roofs of structures with shingles, slate, asphalt, aluminum, wood, or related materials. May spray roofs, sidings, and walls with material to bind, seal, insulate, or soundproof sections of structures.

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
No formal education   none   Moderate OJT	Specialty trade contractors	76.4%	77.2%
2020 Estimated Employment: 250	Self-employed workers	16.8%	16.1%
2030 Projected Employment: 267	Construction of buildings	4.4%	4.5%
Growth Rate, 2020-2030: 6.8%	Employment services	1.6%	1.5%
Annual Average Openings: 26			
2021 Median Hourly Wage: \$22.72			

**47-2211 Sheet Metal Workers**



Fabricate, assemble, install, and repair sheet metal products and equipment, such as ducts, control boxes, drainpipes, and furnace casings. May set up and operate machines to cut, bend, or straighten sheet metal; shape metal over anvils or forms; solder or weld to join parts; or inspect, assemble, and smooth seams and joints of burred surfaces.

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   none   Apprenticeship	Specialty trade contractors	50.0%	48.3%
2020 Estimated Employment: 502	Fabricated metal product manufacturing	29.1%	30.6%
2030 Projected Employment: 536	Management of companies/enterprises	5.0%	4.7%
Growth Rate, 2020-2030: 6.8%	Self-employed workers	4.4%	4.7%
Annual Average Openings: 51	Employment services	4.4%	4.5%
2021 Median Hourly Wage: \$23.50			

**47-2221 Structural Iron and Steel Workers**



Raise, place, and unite iron or steel girders, columns, and other structural members to form completed structures or structural frameworks. May erect metal storage tanks and assemble prefabricated metal buildings. Excludes "Reinforcing Iron and Rebar Workers" (47-2171).

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   none   Apprenticeship	Specialty trade contractors	83.4%	82.7%
2020 Estimated Employment: 175	Construction of buildings	10.3%	10.5%
2030 Projected Employment: 191	Fabricated metal product manufacturing	6.3%	6.8%
Growth Rate, 2020-2030: 9.1%			
Annual Average Openings: 21			
2021 Median Hourly Wage: \$23.64			

**47-2231 Solar Photovoltaic Installers**



Assemble, install, or maintain solar photovoltaic (PV) systems on roofs or other structures in compliance with site assessment and schematics. May measure, cut, assemble, and bolt structural framing and solar modules. May perform minor electrical work such as current checks. Excludes solar PV electricians who are classified as Electricians.

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   none   Moderate OJT	Religious/granting/civic/professional orgs	n	n
2020 Estimated Employment: n	Specialty trade contractors	n	n
2030 Projected Employment: n			
Growth Rate, 2020-2030: n			
Annual Average Openings: n			
2021 Median Hourly Wage: \$28.55			

**47-3011 Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters**

Help brickmasons, blockmasons, stonemasons, or tile and marble setters by performing duties requiring less skill. Duties include using, supplying, or holding materials or tools, and cleaning work area and equipment. Apprentice workers are classified with the skilled construction trade occupation.

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Short OJT</u>	
2020 Estimated Employment:	155
2030 Projected Employment:	153
Growth Rate, 2020-2030:	-1.3%
Annual Average Openings:	18
2021 Median Hourly Wage:	\$18.59

**Employing Industries**

	2020 Share	2030 Share
Specialty trade contractors	84.5%	83.0%
Services to building/dwellings	12.3%	13.1%

**47-3012 Helpers--Carpenters**

Help carpenters by performing duties requiring less skill. Duties include using, supplying, or holding materials or tools, and cleaning work area and equipment. Laborers who do not primarily assist carpenters are classified Construction Laborers. Apprentice workers are classified with the appropriate skilled construction trade occupation.

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Short OJT</u>	
2020 Estimated Employment:	163
2030 Projected Employment:	169
Growth Rate, 2020-2030:	3.7%
Annual Average Openings:	20
2021 Median Hourly Wage:	\$17.48

**Employing Industries**

	2020 Share	2030 Share
Specialty trade contractors	55.2%	56.2%
Construction of buildings	41.1%	39.6%
Social Assistance	3.1%	3.6%

**47-3013 Helpers--Electricians**

Help electricians by performing duties requiring less skill. Duties include using, supplying, or holding materials or tools, and cleaning work area and equipment. Laborers who do not primarily assist electricians are classified Construction Laborers. Apprentice workers are classified with the appropriate skilled construction trade occupation.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Short OJT</u>	
2020 Estimated Employment:	152
2030 Projected Employment:	155
Growth Rate, 2020-2030:	2%
Annual Average Openings:	17
2021 Median Hourly Wage:	\$13.60

**Employing Industries**

	2020 Share	2030 Share
Specialty trade contractors	92.1%	92.3%
Machinery manufacturing	6.6%	6.5%

**47-3015 Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters**

Help plumbers, pipefitters, steamfitters, or pipelayers by performing duties requiring less skill. Duties include using, supplying, or holding materials or tools, and cleaning work area and equipment. Laborers not assisting these workers are classed Construction Laborers. Apprentice workers are classified with the skilled construction trade occupation.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Short OJT</u>	
2020 Estimated Employment:	192
2030 Projected Employment:	207
Growth Rate, 2020-2030:	7.8%
Annual Average Openings:	26
2021 Median Hourly Wage:	\$18.04

**Employing Industries**

	2020 Share	2030 Share
Specialty trade contractors	92.7%	92.3%
Heavy/civil engineering construction	5.7%	5.8%

**47-3016 Helpers--Roofers**

Help roofers by performing duties requiring less skill. Duties include using, supplying, or holding materials or tools, and cleaning work area and equipment. Laborers who do not primarily assist roofers are classified Construction Laborers. Apprentice workers are classified with the appropriate skilled construction trade occupation.

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Short OJT</u>	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
<u>2021 Median Wage:</u>	<u>n</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Specialty trade contractors	n	n

**47-3019 Helpers, Construction Trades, All Other**

All construction trades helpers not listed separately.

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Short OJT</u>	
2020 Estimated Employment:	86
2030 Projected Employment:	93
Growth Rate, 2020-2030:	8.1%
Annual Average Openings:	12
<u>2021 Median Hourly Wage:</u>	<u>\$21.75</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Specialty trade contractors	59.3%	59.1%
Employment services	27.9%	28.0%
Fabricated metal product manufacturing	n	n
Furniture/home furnishings stores	n	n
State government	n	n

**47-4011 Construction and Building Inspectors**

Inspect structures using engineering skills to determine structural soundness and compliance with specifications, building codes, and other regulations. Inspections may be general in nature or may be limited to a specific area, such as electrical systems or plumbing.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   5+ yrs   Moderate OJT</u>	
2020 Estimated Employment:	468
2030 Projected Employment:	456
Growth Rate, 2020-2030:	-2.6%
Annual Average Openings:	52
<u>2021 Median Hourly Wage:</u>	<u>\$28.81</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Local government	45.5%	43.2%
Architectural/engineering/related services	28.0%	31.1%
Self-employed workers	10.0%	7.9%
State government	5.3%	4.6%
Real estate	2.6%	2.9%

**47-4021 Elevator and Escalator Installers and Repairers**

Assemble, install, repair, or maintain electric or hydraulic freight or passenger elevators, escalators, or dumbwaiters.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Apprenticeship</u>	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
<u>2021 Median Hourly Wage:</u>	<u>\$31.40</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Specialty trade contractors	n	n
Wholesale trade	n	n

**47-4031 Fence Erectors**

Erect and repair fences and fence gates, using hand and power tools.

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
<u>No formal education   none   Moderate OJT</u>	Self-employed workers	n	n
2020 Estimated Employment: n	Services to building/dwellings	n	n
2030 Projected Employment: n	Specialty trade contractors	n	n
Growth Rate, 2020-2030: n			
Annual Average Openings: n			
<u>2021 Median Hourly Wage: \$19.31</u>			

**47-4041 Hazardous Materials Removal Workers**

Identify, remove, pack, transport, or dispose of hazardous materials, including asbestos, lead-based paint, waste oil, fuel, transmission fluid, radioactive materials, or contaminated soil. Specialized training and certification in hazardous materials handling or a confined entry permit are required. May operate earth-moving equipment or trucks.

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>	Management/scientific/technical consulting	79.6%	76.6%
2020 Estimated Employment: n	Waste management/remediation services	17.1%	14.3%
2030 Projected Employment: n	Computer/electronic product manufacturing	n	n
Growth Rate, 2020-2030: n	Self-employed workers	n	n
Annual Average Openings: n			
<u>2021 Median Hourly Wage: \$21.92</u>			

**47-4051 Highway Maintenance Workers**

Maintain highways, municipal and rural roads, airport runways, and rights-of-way. Duties include patching broken or eroded pavement and repairing guard rails, highway markers, and snow fences. May also mow or clear brush from along road, or plow snow from roadway. Excludes "Tree Trimmers and Pruners" (37-3013).

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>	Local government	62.5%	64.2%
2020 Estimated Employment: 1,577	State government	36.4%	34.6%
2030 Projected Employment: 1,670			
Growth Rate, 2020-2030: 5.9%			
Annual Average Openings: 175			
<u>2021 Median Hourly Wage: \$18.74</u>			

**47-4061 Rail-Track Laying and Maintenance Equipment Operators**

Lay, repair, and maintain track for standard or narrow-gauge railroad equipment used in regular railroad service or in plant yards, quarries, sand and gravel pits, and mines. Includes ballast cleaning machine operators and railroad bed tamping machine operators.

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>	Rail transportation	n	n
2020 Estimated Employment: n	Scenic/sightseeing transportation	n	n
2030 Projected Employment: n	Self-employed workers	n	n
Growth Rate, 2020-2030: n			
Annual Average Openings: n			
<u>2021 Median Wage: n</u>			

**47-4071 Septic Tank Servicers and Sewer Pipe Cleaners**

Clean and repair septic tanks, sewer lines, or drains. May patch walls and partitions of tank, replace damaged drain tile, or repair breaks in underground piping.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	164
2030 Projected Employment:	188
Growth Rate, 2020-2030:	14.6%
Annual Average Openings:	22
2021 Median Hourly Wage:	\$22.74

**Employing Industries**

	2020 Share	2030 Share
Waste management/remediation services	88.4%	88.3%
Specialty trade contractors	5.5%	4.8%
Local government	4.3%	4.3%
Self-employed workers	1.8%	2.7%

**47-4090 Miscellaneous Construction and Related Workers**

This occupation includes the 2018 and 2010 SOC occupations 47-4091 Segmental Pavers and 47-4099 Construction and Related Workers, All Other.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	73
2030 Projected Employment:	80
Growth Rate, 2020-2030:	9.6%
Annual Average Openings:	9
2021 Median Wage:	n

**Employing Industries**

	2020 Share	2030 Share
Specialty trade contractors	65.8%	65.0%
Self-employed workers	2.7%	3.8%
Advertising/related services	n	n
Heavy/civil engineering construction	n	n
Textile product mills	n	n
Wholesale trade	n	n

**47-5022 Excavating and Loading Machine and Dragline Operators, Surface Mining**

Operate or tend machinery at surface mining site, equipped with scoops, shovels, or buckets to excavate and load loose materials.

**Entry-Level Education, Experience, & Training:**

HS Diploma   < 5 yrs   Moderate OJT	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Hourly Wage:	\$23.02

**Employing Industries**

	2020 Share	2030 Share
Employment services	n	n
Heavy/civil engineering construction	n	n
Mining (except oil/gas)	n	n
Specialty trade contractors	n	n
Waste management/remediation services	n	n
Wholesale trade	n	n

**47-5051 Rock Splitters, Quarry**

Separate blocks of rough dimension stone from quarry mass using jackhammers, wedges, or chop saws.

**Entry-Level Education, Experience, & Training:**

No formal education   none   Short OJT	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Hourly Wage:	\$23.10

**Employing Industries**

	2020 Share	2030 Share
Nonmetallic mineral product manufacturing	n	n
Self-employed workers	n	n

**47-5081 Helpers--Extraction Workers**

Help extraction craft workers, such as earth drillers, blasters and explosives workers, derrick operators, and mining machine operators, by performing duties requiring less skill. Duties include supplying equipment or cleaning work area. Apprentice workers are classified with the appropriate skilled construction trade occupation.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Moderate OJT</u>	
2020 Estimated Employment:	109
2030 Projected Employment:	120
Growth Rate, 2020-2030:	10.1%
Annual Average Openings:	15
<u>2021 Median Hourly Wage:</u>	<u>\$22.69</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Heavy/civil engineering construction	61.5%	61.7%
Specialty trade contractors	23.9%	22.5%
Management/scientific/technical consulting	11.9%	13.3%
Self-employed workers	2.8%	2.5%

**47-5097 Earth Drillers, Except Oil and Gas; and Explosives Workers, Ordnance Handling Experts, and Blasters**

This occupation includes the 2018 SOC occupations 47-5023 Earth Drillers, Except Oil and Gas; and 47-5032 Explosives Workers, Ordnance Handling Experts, and Blasters; and the 2010 SOC occupations 47-5021 Earth Drillers, Except Oil and Gas and 47-5031 Explosives Workers, Ordnance Handling Experts, and Blasters.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   &lt; 5 yrs   Long OJT</u>	
2020 Estimated Employment:	207
2030 Projected Employment:	225
Growth Rate, 2020-2030:	8.7%
Annual Average Openings:	27
<u>2021 Median Wage:</u>	<u>n/a</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Heavy/civil engineering construction	34.8%	35.1%
Specialty trade contractors	27.1%	26.7%
Wholesale trade	17.4%	16.9%
	10.1%	10.2%
Management/scientific/technical consulting	5.8%	6.7%
Architectural/engineering/related services	2.9%	2.7%

**49-1011 First-Line Supervisors of Mechanics, Installers, and Repairers**

Directly supervise and coordinate the activities of mechanics, installers, and repairers. May also advise customers on recommended services. Excludes team or work leaders.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   &lt; 5 yrs   none</u>	
2020 Estimated Employment:	2,151
2030 Projected Employment:	2,323
Growth Rate, 2020-2030:	8%
Annual Average Openings:	215
<u>2021 Median Hourly Wage:</u>	<u>\$36.72</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Motor vehicle/parts dealers	16.7%	17.1%
Repair and maintenance	9.3%	9.6%
Wholesale trade	7.8%	7.6%
Specialty trade contractors	5.7%	5.6%
Heavy/civil engineering construction	5.0%	5.0%
State government	4.2%	4.0%

**49-2011 Computer, Automated Teller, and Office Machine Repairers**

Repair, maintain, or install computers, word processing systems, automated teller machines, and electronic office machines, such as duplicating and fax machines.

**Entry-Level Education, Experience, & Training:**

<u>Some College   none   Short OJT</u>	
2020 Estimated Employment:	653
2030 Projected Employment:	636
Growth Rate, 2020-2030:	-2.6%
Annual Average Openings:	67
<u>2021 Median Hourly Wage:</u>	<u>\$22.66</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Wholesale trade	48.2%	47.6%
Electronics/appliance stores	14.7%	12.6%
Self-employed workers	10.3%	9.4%
Repair and maintenance	8.0%	9.0%
Computer systems design/related services	4.8%	5.8%



**49-2021 Radio, Cellular, and Tower Equipment Installers and Repairers**

Repair, install, or maintain mobile or stationary radio transmitting, broadcasting, and receiving equipment, and two-way radio communications systems used in cellular telecommunications, mobile broadband, ship-to-shore, aircraft-to-ground communications, and radio equipment in service and emergency vehicles. May test and analyze network coverage.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Associate's degree   none   Moderate OJT</u>		Architectural/engineering/related services		n	n
2020 Estimated Employment:	n	Heavy/civil engineering construction		n	n
2030 Projected Employment:	n	Local government		n	n
Growth Rate, 2020-2030:	n	Repair and maintenance		n	n
Annual Average Openings:	n	Telecommunications		n	n
2021 Median Hourly Wage:	\$23.54	Wholesale trade		n	n

**49-2022 Telecommunications Equipment Installers and Repairers, Except Line Installers**

Install, set up, rearrange, or remove switching, distribution, routing, and dialing equipment used in central offices or headends. Service or repair telephone, cable television, Internet, and other communications equipment on customers' property. May install communications equipment or communications wiring in buildings.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Postsecondary   none   Moderate OJT</u>		Telecommunications		82.8%	81.4%
2020 Estimated Employment:	639	Repair and maintenance		6.7%	7.5%
2030 Projected Employment:	652	Self-employed workers		2.2%	2.0%
Growth Rate, 2020-2030:	2%	Hospitals		n	n
Annual Average Openings:	73	Management/scientific/technical consulting		n	n
2021 Median Hourly Wage:	\$36.98				

**49-2091 Avionics Technicians**

Install, inspect, test, adjust, or repair avionics equipment, such as radar, radio, navigation, and missile control systems in aircraft or space vehicles.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Associate's degree   none   none</u>		Architectural/engineering/related services		n	n
2020 Estimated Employment:	55	Computer/electronic product manufacturing		n	n
2030 Projected Employment:	58	Federal government		n	n
Growth Rate, 2020-2030:	5.5%	Transportation equipment manufacturing		n	n
Annual Average Openings:	3				
2021 Median Hourly Wage:	\$29.98				

**49-2092 Electric Motor, Power Tool, and Related Repairers**

Repair, maintain, or install electric motors, wiring, or switches.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   &lt; 5 yrs   Moderate OJT</u>		Employment services		n	n
2020 Estimated Employment:	15	Non-store retailers		n	n
2030 Projected Employment:	16	Self-employed workers		n	n
Growth Rate, 2020-2030:	n	Specialty trade contractors		n	n
Annual Average Openings:	2				
2021 Median Hourly Wage:	\$29.59				

**49-2093 Electrical and Electronics Installers and Repairers, Transportation Equipment**

Install, adjust, or maintain mobile electronics communication equipment, including sound, sonar, security, navigation, and surveillance systems on trains, watercraft, or other mobile equipment. Excludes “Avionics Technicians” (49-2091) and “Electronic Equipment Installers and Repairers, Motor Vehicles” (49-2096).

**Entry-Level Education, Experience, & Training:**

<u>Postsecondary   none   Long OJT</u>	
2020 Estimated Employment:	31
2030 Projected Employment:	28
Growth Rate, 2020-2030:	-9.7%
Annual Average Openings:	3
2021 Median Hourly Wage:	\$29.15

**Employing Industries**

	2020 Share	2030 Share
Electronics/appliance stores	51.6%	46.4%
State government	41.9%	46.4%
Computer/electronic product manufacturing	n	n
Local government	n	n

**49-2094 Electrical and Electronics Repairers, Commercial and Industrial Equipment**

Repair, test, adjust, or install electronic equipment, such as industrial controls, transmitters, and antennas. Excludes “Avionics Technicians” (49-2091), “Electrical and Electronics Installers and Repairers, Transportation Equipment” (49-2093), and “Electronic Equipment Installers and Repairers, Motor Vehicles” (49-2096).

**Entry-Level Education, Experience, & Training:**

<u>Postsecondary   none   Long OJT</u>	
2020 Estimated Employment:	328
2030 Projected Employment:	356
Growth Rate, 2020-2030:	8.5%
Annual Average Openings:	29
2021 Median Hourly Wage:	\$24.58

**Employing Industries**

	2020 Share	2030 Share
Specialty trade contractors	25.9%	24.7%
Architectural/engineering/related services	19.8%	19.9%
Wholesale trade	16.8%	16.3%
Repair and maintenance	11.0%	11.5%
Amusements/gambling/recreation industries	3.7%	4.2%
Computer/electronic product manufacturing	3.4%	3.4%

**49-2095 Electrical and Electronics Repairers, Powerhouse, Substation, and Relay**

Inspect, test, repair, or maintain electrical equipment in generating stations, substations, and in-service relays.

**Entry-Level Education, Experience, & Training:**

<u>Postsecondary   &lt; 5 yrs   Moderate OJT</u>	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Hourly Wage:	\$37.53

**Employing Industries**

	2020 Share	2030 Share
Architectural/engineering/related services	n	n
Utilities	n	n

**49-2096 Electronic Equipment Installers and Repairers, Motor Vehicles**

Install, diagnose, or repair communications, sound, security, or navigation equipment in motor vehicles.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Moderate OJT</u>	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Hourly Wage:	\$22.25

**Employing Industries**

	2020 Share	2030 Share
Colleges/universities/professional schools	n	n
Electronics/appliance stores	n	n
Repair and maintenance	n	n

**49-2097 Audiovisual Equipment Installers and Repairers**

Install, repair, or adjust audio or television receivers, stereo systems, camcorders, video systems, or other electronic entertainment equipment in homes or other venues. May perform routine maintenance. Excludes "Audio and Video Technicians" (27-4011).

**Entry-Level Education, Experience, & Training:**

Postsecondary	none	Short OJT
2020 Estimated Employment:	n	
2030 Projected Employment:	n	
Growth Rate, 2020-2030:	n	
Annual Average Openings:	n	
2021 Median Hourly Wage:	\$22.90	

**Employing Industries**

	2020 Share	2030 Share
Computer/electronic product manufacturing	n	n
Repair and maintenance	n	n
Self-employed workers	n	n
Specialty trade contractors	n	n
Wholesale trade	n	n

**49-2098 Security and Fire Alarm Systems Installers**

Install, program, maintain, and repair security and fire alarm wiring and equipment. Ensure that work is in accordance with relevant codes. Excludes "Electricians" (47-2111) who do a broad range of electrical wiring.

**Entry-Level Education, Experience, & Training:**

HS Diploma	none	Moderate OJT
2020 Estimated Employment:	331	
2030 Projected Employment:	379	
Growth Rate, 2020-2030:	14.5%	
Annual Average Openings:	40	
2021 Median Hourly Wage:	\$29.63	

**Employing Industries**

	2020 Share	2030 Share
Investigation/security services	67.7%	69.9%
Wholesale trade	16.9%	15.6%
Colleges/universities/professional schools	6.0%	5.5%
Self-employed workers	4.8%	4.8%
Local government	2.7%	2.6%

**49-3011 Aircraft Mechanics and Service Technicians**

Diagnose, adjust, repair, or overhaul aircraft engines and assemblies, such as hydraulic and pneumatic systems. Excludes "Avionics Technicians" (49-2091).

**Entry-Level Education, Experience, & Training:**

Postsecondary	none	none
2020 Estimated Employment:	333	
2030 Projected Employment:	382	
Growth Rate, 2020-2030:	14.7%	
Annual Average Openings:	34	
2021 Median Hourly Wage:	\$33.79	

**Employing Industries**

	2020 Share	2030 Share
Air transportation	25.8%	26.7%
Support activities for transportation	25.5%	28.5%
Federal government	15.6%	13.1%
Couriers and messengers	10.8%	11.3%
Management of companies/enterprises	8.7%	7.6%
Repair and maintenance	6.6%	6.5%

**49-3021 Automotive Body and Related Repairers**

Repair and refinish automotive vehicle bodies and straighten vehicle frames. Excludes "Automotive Glass Installers and Repairers" (49-3022) and "Coating, Painting, and Spraying Machine Setters, Operators, and Tenders" (51-9124).

**Entry-Level Education, Experience, & Training:**

HS Diploma	none	Long OJT
2020 Estimated Employment:	795	
2030 Projected Employment:	851	
Growth Rate, 2020-2030:	7%	
Annual Average Openings:	81	
2021 Median Hourly Wage:	\$22.58	

**Employing Industries**

	2020 Share	2030 Share
Repair and maintenance	69.7%	73.2%
Motor vehicle/parts dealers	18.2%	17.2%
Self-employed workers	9.3%	6.6%
Support activities for transportation	2.4%	2.7%

**49-3022 Automotive Glass Installers and Repairers**

Replace or repair broken windshields and window glass in motor vehicles.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Moderate OJT</u>	
2020 Estimated Employment:	127
2030 Projected Employment:	140
Growth Rate, 2020-2030:	10.2%
Annual Average Openings:	15
<u>2021 Median Hourly Wage:</u>	<u>\$22.51</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Repair and maintenance	94.5%	96.4%
Self-employed workers	5.5%	3.6%

**49-3023 Automotive Service Technicians and Mechanics**

Diagnose, adjust, repair, or overhaul automotive vehicles. Excludes “Automotive Body and Related Repairers” (49-3021), “Bus and Truck Mechanics and Diesel Engine Specialists” (49-3031), and “Electronic Equipment Installers and Repairers, Motor Vehicles” (49-2096).

**Entry-Level Education, Experience, & Training:**

<u>Postsecondary   none   Short OJT</u>	
2020 Estimated Employment:	3,871
2030 Projected Employment:	3,986
Growth Rate, 2020-2030:	3%
Annual Average Openings:	395
<u>2021 Median Hourly Wage:</u>	<u>\$22.98</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Motor vehicle/parts dealers	46.9%	48.4%
Repair and maintenance	37.2%	38.4%
Self-employed workers	9.8%	7.1%
Local government	1.0%	0.9%

**49-3031 Bus and Truck Mechanics and Diesel Engine Specialists**

Diagnose, adjust, repair, or overhaul buses and trucks, or maintain and repair any type of diesel engines. Includes mechanics working primarily with automobile or marine diesel engines.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Long OJT</u>	
2020 Estimated Employment:	1,061
2030 Projected Employment:	1,162
Growth Rate, 2020-2030:	9.5%
Annual Average Openings:	111
<u>2021 Median Hourly Wage:</u>	<u>\$26.03</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Repair and maintenance	21.8%	22.3%
Wholesale trade	17.0%	17.3%
Local government	9.1%	9.0%
Waste management/remediation services	9.0%	9.1%
Self-employed workers	6.7%	4.7%
Transit/ground passenger transport	5.2%	6.5%

**49-3041 Farm Equipment Mechanics and Service Technicians**

Diagnose, adjust, repair, or overhaul farm machinery and vehicles, such as tractors, harvesters, dairy equipment, and irrigation systems. Excludes “Bus and Truck Mechanics and Diesel Engine Specialists” (49-3031).

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Long OJT</u>	
2020 Estimated Employment:	112
2030 Projected Employment:	130
Growth Rate, 2020-2030:	16.1%
Annual Average Openings:	14
<u>2021 Median Hourly Wage:</u>	<u>\$22.55</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Wholesale trade	46.4%	44.6%
Crop production	37.5%	40.0%
Animal production/aquaculture	8.0%	7.7%
Building material/garden supply stores	3.6%	3.9%
Self-employed workers	2.7%	2.3%
Repair and maintenance	1.8%	1.5%

**49-3042 Mobile Heavy Equipment Mechanics, Except Engines**

Diagnose, adjust, repair, or overhaul mobile mechanical, hydraulic, and pneumatic equipment, such as cranes, bulldozers, graders, and conveyors, used in construction, logging, and mining. Excludes “Bus and Truck Mechanics and Diesel Engine Specialists” (49-3031) and “Rail Car Repairers” (49-3043).

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Long OJT	
2020 Estimated Employment:	550
2030 Projected Employment:	635
Growth Rate, 2020-2030:	15.5%
Annual Average Openings:	66
2021 Median Hourly Wage:	\$28.94

**Employing Industries**

	2020 Share	2030 Share
Wholesale trade	44.0%	47.6%
Heavy/civil engineering construction	13.5%	12.6%
Rental/leasing services	11.3%	10.4%
Specialty trade contractors	6.7%	6.1%
State government	6.0%	5.2%
Construction of buildings	3.3%	3.2%

**49-3043 Rail Car Repairers**

Diagnose, adjust, repair, or overhaul railroad rolling stock, mine cars, or mass transit rail cars. Excludes “Bus and Truck Mechanics and Diesel Engine Specialists” (49-3031).

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Long OJT	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Wage:	n

**Employing Industries**

	2020 Share	2030 Share
Rail transportation	n	n
Scenic/sightseeing transportation	n	n

**49-3051 Motorboat Mechanics and Service Technicians**

Repair and adjust electrical and mechanical equipment of inboard or inboard-outboard boat engines. Excludes “Bus and Truck Mechanics and Diesel Engine Specialists” (49-3031).

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Long OJT	
2020 Estimated Employment:	138
2030 Projected Employment:	167
Growth Rate, 2020-2030:	21%
Annual Average Openings:	20
2021 Median Hourly Wage:	\$22.68

**Employing Industries**

	2020 Share	2030 Share
Motor vehicle/parts dealers	47.8%	47.9%
Amusements/gambling/recreation industries	42.8%	44.3%
Self-employed workers	4.4%	3.6%
Repair and maintenance	3.6%	3.0%
State government	1.5%	1.2%

**49-3052 Motorcycle Mechanics**

Diagnose, adjust, repair, or overhaul motorcycles, scooters, mopeds, dirt bikes, or similar motorized vehicles.

**Entry-Level Education, Experience, & Training:**

Postsecondary   none   Short OJT	
2020 Estimated Employment:	215
2030 Projected Employment:	244
Growth Rate, 2020-2030:	13.5%
Annual Average Openings:	28
2021 Median Hourly Wage:	\$22.62

**Employing Industries**

	2020 Share	2030 Share
Motor vehicle/parts dealers	91.2%	92.2%
Self-employed workers	4.2%	3.7%
Repair and maintenance	3.7%	3.3%

**49-3053 Outdoor Power Equipment and Other Small Engine Mechanics**

Diagnose, adjust, repair, or overhaul small engines used to power lawn mowers, chain saws, recreational sporting equipment, and related equipment.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma</u>   none   Moderate OJT	
2020 Estimated Employment:	321
2030 Projected Employment:	341
Growth Rate, 2020-2030:	6.2%
Annual Average Openings:	38
2021 Median Hourly Wage:	\$21.92

**Employing Industries**

	2020 Share	2030 Share
Building material/garden supply stores	43.3%	41.1%
Motor vehicle/parts dealers	18.7%	19.9%
Services to building/dwellings	11.8%	12.0%
Amusements/gambling/recreation industries	7.2%	8.8%
Wholesale trade	5.9%	5.9%
Repair and maintenance	4.7%	4.4%

**49-3091 Bicycle Repairers**

Repair and service bicycles.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma</u>   none   Moderate OJT	
2020 Estimated Employment:	90
2030 Projected Employment:	97
Growth Rate, 2020-2030:	7.8%
Annual Average Openings:	12
2021 Median Hourly Wage:	\$14.05

**Employing Industries**

	2020 Share	2030 Share
Sporting goods/hobby/book/music stores	80.0%	76.3%
Amusements/gambling/recreation industries	17.8%	21.7%
Self-employed workers	2.2%	2.1%

**49-3092 Recreational Vehicle Service Technicians**

Diagnose, inspect, adjust, repair, or overhaul recreational vehicles including travel trailers. May specialize in maintaining gas, electrical, hydraulic, plumbing, or chassis/towing systems as well as repairing generators, appliances, and interior components. Includes workers who perform customized van conversions.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma</u>   none   Long OJT	
2020 Estimated Employment:	114
2030 Projected Employment:	136
Growth Rate, 2020-2030:	19.3%
Annual Average Openings:	16
2021 Median Hourly Wage:	\$22.38

**Employing Industries**

	2020 Share	2030 Share
Motor vehicle/parts dealers	68.4%	71.3%
Repair and maintenance	29.0%	27.2%
Self-employed workers	2.6%	1.5%

**49-3093 Tire Repairers and Changers**

Repair and replace tires.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma</u>   none   Short OJT	
2020 Estimated Employment:	568
2030 Projected Employment:	600
Growth Rate, 2020-2030:	5.6%
Annual Average Openings:	69
2021 Median Hourly Wage:	\$14.05

**Employing Industries**

	2020 Share	2030 Share
Motor vehicle/parts dealers	78.4%	79.5%
Management of companies/enterprises	8.8%	8.3%
General merchandise stores	4.8%	4.2%
Wholesale trade	4.2%	4.3%
Self-employed workers	2.5%	1.8%
Repair and maintenance	1.1%	1.2%

**49-9011 Mechanical Door Repairers**

Install, service, or repair automatic door mechanisms and hydraulic doors. Includes garage door mechanics.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Moderate OJT</u>	
2020 Estimated Employment:	125
2030 Projected Employment:	150
Growth Rate, 2020-2030:	20%
Annual Average Openings:	13
<u>2021 Median Hourly Wage:</u>	<u>\$22.81</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Specialty trade contractors	99.2%	99.3%

**49-9012 Control and Valve Installers and Repairers, Except Mechanical Door**

Install, repair, and maintain mechanical regulating and controlling devices, such as electric meters, gas regulators, thermostats, safety and flow valves, and other mechanical governors.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Moderate OJT</u>	
2020 Estimated Employment:	88
2030 Projected Employment:	91
Growth Rate, 2020-2030:	3.4%
Annual Average Openings:	7
<u>2021 Median Hourly Wage:</u>	<u>\$31.10</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Utilities	47.7%	44.0%
Heavy/civil engineering construction	23.9%	25.3%
Local government	20.5%	22.0%
Architectural/engineering/related services	n	n
Investigation/security services	n	n
Repair and maintenance	n	n

**49-9021 Heating, Air Conditioning, and Refrigeration Mechanics and Installers**

Install or repair heating, central air conditioning, HVAC, or refrigeration systems, including oil burners, hot-air furnaces, and heating stoves.

**Entry-Level Education, Experience, & Training:**

<u>Postsecondary   none   Long OJT</u>	
2020 Estimated Employment:	2,302
2030 Projected Employment:	2,429
Growth Rate, 2020-2030:	5.5%
Annual Average Openings:	235
<u>2021 Median Hourly Wage:</u>	<u>\$28.78</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Specialty trade contractors	57.0%	58.2%
Non-store retailers	17.1%	15.8%
Self-employed workers	7.7%	7.5%
Wholesale trade	5.9%	5.9%
Repair and maintenance	1.9%	2.1%
Hospitals	1.7%	1.7%

**49-9031 Home Appliance Repairers**

Repair, adjust, or install all types of electric or gas household appliances, such as refrigerators, washers, dryers, and ovens.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Moderate OJT</u>	
2020 Estimated Employment:	165
2030 Projected Employment:	161
Growth Rate, 2020-2030:	-2.4%
Annual Average Openings:	16
<u>2021 Median Hourly Wage:</u>	<u>\$21.16</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Repair and maintenance	75.2%	77.0%
Electronics/appliance stores	12.1%	10.6%
Self-employed workers	11.5%	11.2%

**49-9041 Industrial Machinery Mechanics**

Repair, install, adjust, or maintain industrial production and processing machinery or refinery and pipeline distribution systems. May also install, dismantle, or move machinery and heavy equipment according to plans. Excludes “Mobile Heavy Equipment Mechanics, Except Engines” (49-3042), and “Maintenance Workers, Machinery” (49-9043).

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Long OJT</u>	
2020 Estimated Employment:	2,033
2030 Projected Employment:	2,506
Growth Rate, 2020-2030:	23.3%
Annual Average Openings:	240
<u>2021 Median Hourly Wage:</u>	<u>\$28.06</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Wholesale trade	12.1%	11.8%
Electrical equipment/appliance manufacturing	11.5%	12.1%
Repair and maintenance	10.5%	12.2%
Fabricated metal product manufacturing	9.0%	9.3%
Machinery manufacturing	7.7%	8.0%
Plastics/rubber products manufacturing	7.3%	7.1%

**49-9043 Maintenance Workers, Machinery**

Lubricate machinery, change parts, or perform other routine machinery maintenance. Excludes “Maintenance and Repair Workers, General” (49-9071).

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Long OJT</u>	
2020 Estimated Employment:	193
2030 Projected Employment:	215
Growth Rate, 2020-2030:	11.4%
Annual Average Openings:	20
<u>2021 Median Hourly Wage:</u>	<u>\$29.81</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Food manufacturing	12.4%	13.0%
Textile mills	9.3%	7.4%
Fabricated metal product manufacturing	9.3%	9.8%
Plastics/rubber products manufacturing	8.8%	8.8%
Nonmetallic mineral product manufacturing	8.8%	8.8%
Chemical manufacturing	8.3%	10.7%

**49-9044 Millwrights**

Install, dismantle, or move machinery and heavy equipment according to layout plans, blueprints, or other drawings.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Apprenticeship</u>	
2020 Estimated Employment:	68
2030 Projected Employment:	71
Growth Rate, 2020-2030:	4.4%
Annual Average Openings:	6
<u>2021 Median Hourly Wage:</u>	<u>\$29.20</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Paper manufacturing	30.9%	26.8%
Specialty trade contractors	23.5%	25.4%
Machinery manufacturing	13.2%	14.1%
Mining (except oil/gas)	10.3%	11.3%
Construction of buildings	n	n
Heavy/civil engineering construction	n	n

**49-9051 Electrical Power-Line Installers and Repairers**

Install or repair cables or wires used in electrical power or distribution systems. May erect poles and light or heavy duty transmission towers. Excludes “Electrical and Electronics Repairers, Powerhouse, Substation, and Relay” (49-2095).

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Long OJT</u>	
2020 Estimated Employment:	922
2030 Projected Employment:	941
Growth Rate, 2020-2030:	2.1%
Annual Average Openings:	83
<u>2021 Median Hourly Wage:</u>	<u>\$46.31</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Utilities	62.7%	61.1%
Heavy/civil engineering construction	35.1%	36.6%
Local government	1.2%	1.3%



**49-9052 Telecommunications Line Installers and Repairers**

Install and repair telecommunications cable, including fiber optics.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Long OJT</u>		Telecommunications		56.2%	51.8%
2020 Estimated Employment:	244	Specialty trade contractors		26.6%	28.6%
2030 Projected Employment:	255	Heavy/civil engineering construction		7.4%	8.2%
Growth Rate, 2020-2030:	4.5%	Architectural/engineering/related services		4.9%	5.1%
Annual Average Openings:	28	Management/scientific/technical consulting		3.7%	4.7%
<u>2021 Median Hourly Wage:</u>	<u>\$28.87</u>	Self-employed workers		1.2%	1.6%

**49-9062 Medical Equipment Repairers**

Test, adjust, or repair biomedical or electromedical equipment.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Associate's degree   none   Moderate OJT</u>		Hospitals		30.5%	30.1%
2020 Estimated Employment:	190	Repair and maintenance		29.5%	31.1%
2030 Projected Employment:	206	Wholesale trade		11.1%	11.2%
Growth Rate, 2020-2030:	8.4%	Self-employed workers		10.5%	9.2%
Annual Average Openings:	23	Management of companies/enterprises		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$28.98</u>	Miscellaneous manufacturing		n	n

**49-9063 Musical Instrument Repairers and Tuners**

Repair percussion, stringed, reed, or wind instruments. May specialize in one area, such as piano tuning. Excludes "Audiovisual Equipment Installers and Repairers" (49-2097) who repair electrical and electronic musical instruments.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Apprenticeship</u>		Colleges/universities/professional schools		n	n
2020 Estimated Employment:	n	Non-store retailers		n	n
2030 Projected Employment:	n	Repair and maintenance		n	n
Growth Rate, 2020-2030:	n	Self-employed workers		n	n
Annual Average Openings:	n	Sporting goods/hobby/book/music stores		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$14.35</u>				

**49-9064 Watch and Clock Repairers**

Repair, clean, and adjust mechanisms of timing instruments, such as watches and clocks. Includes watchmakers, watch technicians, and mechanical timepiece repairers. Excludes "Timing Device Assemblers and Adjusters" (51-2061).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Long OJT</u>		Repair and maintenance		n	n
2020 Estimated Employment:	n	Self-employed workers		n	n
2030 Projected Employment:	n				
Growth Rate, 2020-2030:	n				
Annual Average Openings:	n				
<u>2021 Median Wage:</u>	<u>n</u>				

49-9069 Precision Instrument and Equipment Repairers, All Other 

All precision instrument and equipment repairers not listed separately.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Long OJT</u>		Wholesale trade		37.1%	37.5%
2020 Estimated Employment:	62	Federal government		14.5%	14.1%
2030 Projected Employment:	64	Architectural/engineering/related services		n	n
Growth Rate, 2020-2030:	3.2%	Fabricated metal product manufacturing		n	n
Annual Average Openings:	7	Repair and maintenance		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$34.26</u>	Self-employed workers		n	n

49-9071 Maintenance and Repair Workers, General 

Perform work involving skills of two or more maintenance or craft occupations to keep machines, mechanical equipment, or structures in repair. Duties include pipe fitting; HVAC maintenance; welding; machining; carpentry; repairing electrical or mechanical equipment, or buildings, floors, and stairs; or installing, aligning, and balancing new equipment.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>		Real estate		22.0%	21.6%
2020 Estimated Employment:	4,917	Accommodation		10.1%	11.9%
2030 Projected Employment:	5,436	Nursing/residential care facilities		4.7%	4.6%
Growth Rate, 2020-2030:	10.6%	Local government		4.4%	3.9%
Annual Average Openings:	536	Religious/granting/civic/professional orgs		4.4%	4.0%
<u>2021 Median Hourly Wage:</u>	<u>\$22.33</u>	Elementary/secondary schools (public/private)		3.5%	3.3%

49-9081 Wind Turbine Service Technicians 

Inspect, diagnose, adjust, or repair wind turbines. Perform maintenance on wind turbine equipment including resolving electrical, mechanical, and hydraulic malfunctions.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Postsecondary   none   Long OJT</u>		Self-employed workers		n	n
2020 Estimated Employment:	n	Utilities		n	n
2030 Projected Employment:	n				
Growth Rate, 2020-2030:	n				
Annual Average Openings:	n				
<u>2021 Median Wage:</u>	<u>n</u>				

49-9091 Coin, Vending, and Amusement Machine Servicers and Repairers 

Install, service, adjust, or repair coin, vending, or amusement machines including video games, juke boxes, pinball machines, or slot machines.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Short OJT</u>		Amusements/gambling/recreation industries		n	n
2020 Estimated Employment:	n	Self-employed workers		n	n
2030 Projected Employment:	n				
Growth Rate, 2020-2030:	n				
Annual Average Openings:	n				
<u>2021 Median Hourly Wage:</u>	<u>\$21.83</u>				

**49-9092 Commercial Divers**

Work below surface of water, using surface-supplied air or scuba equipment to inspect, repair, remove, or install equipment and structures. May use a variety of power and hand tools, such as drills, sledgehammers, torches, and welding equipment. May conduct tests or experiments, rig explosives, or photograph structures or marine life.

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
<u>Postsecondary   none   Moderate OJT</u>	Heavy/civil engineering construction	n	n
2020 Estimated Employment: n	Repair and maintenance	n	n
2030 Projected Employment: n	Self-employed workers	n	n
Growth Rate, 2020-2030: n			
Annual Average Openings: n			
<u>2021 Median Hourly Wage: \$25.18</u>			

**49-9094 Locksmiths and Safe Repairers**

Repair and open locks, make keys, change locks and safe combinations, and install and repair safes.

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Long OJT</u>	Colleges/universities/professional schools	n	n
2020 Estimated Employment: n	Elementary/secondary schools (public/private)	n	n
2030 Projected Employment: n	Investigation/security services	n	n
Growth Rate, 2020-2030: n	Self-employed workers	n	n
Annual Average Openings: n			
<u>2021 Median Hourly Wage: \$22.55</u>			

**49-9095 Manufactured Building and Mobile Home Installers**

Move or install mobile homes or prefabricated buildings.

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Short OJT</u>	Miscellaneous store retailers	31.4%	30.9%
2020 Estimated Employment: 86	Wood product manufacturing	29.1%	23.5%
2030 Projected Employment: 68	Real estate	15.1%	16.2%
Growth Rate, 2020-2030: -20.9%	Fabricated metal product manufacturing	14.0%	14.7%
Annual Average Openings: 6	Self-employed workers	10.5%	14.7%
<u>2021 Median Hourly Wage: \$22.78</u>			

**49-9096 Riggers**

Set up or repair rigging for construction projects, manufacturing plants, logging yards, ships and shipyards, or for the entertainment industry.

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>	Specialty trade contractors	53.2%	56.3%
2020 Estimated Employment: 47	Motor vehicle/parts dealers	n	n
2030 Projected Employment: 48	Transportation equipment manufacturing	n	n
Growth Rate, 2020-2030: 2.1%	Wholesale trade	n	n
Annual Average Openings: 5			
<u>2021 Median Hourly Wage: \$22.88</u>			

**49-9097 Signal and Track Switch Repairers**

Install, inspect, test, maintain, or repair electric gate crossings, signals, signal equipment, track switches, section lines, or intercommunications systems within a railroad system.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Wage:	n

**Employing Industries**

	2020 Share	2030 Share
Rail transportation	n	n
Scenic/sightseeing transportation	n	n
Self-employed workers	n	n

**49-9098 Helpers--Installation, Maintenance, and Repair Workers**

Help installation, maintenance, and repair workers in maintenance, parts replacement, and repair of vehicles, industrial machinery, and electrical and electronic equipment. Perform duties such as furnishing tools, materials, and supplies to other workers; cleaning work area, machines, and tools; and holding materials or tools for other workers.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Short OJT	
2020 Estimated Employment:	567
2030 Projected Employment:	612
Growth Rate, 2020-2030:	7.9%
Annual Average Openings:	78
2021 Median Hourly Wage:	\$15.47

**Employing Industries**

	2020 Share	2030 Share
Specialty trade contractors	43.9%	43.6%
Repair and maintenance	6.4%	6.7%
State government	5.8%	5.4%
Heavy/civil engineering construction	4.9%	4.9%
Local government	4.4%	4.4%
Motor vehicle/parts dealers	4.2%	4.4%

**49-9099 Installation, Maintenance, and Repair Workers, All Other**

All installation, maintenance, and repair workers not listed separately.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	262
2030 Projected Employment:	288
Growth Rate, 2020-2030:	9.9%
Annual Average Openings:	31
2021 Median Hourly Wage:	\$22.64

**Employing Industries**

	2020 Share	2030 Share
Wholesale trade	17.6%	17.0%
Amusements/gambling/recreation industries	11.5%	13.9%
Advertising/related services	10.7%	11.1%
Self-employed workers	9.9%	9.4%
Federal government	9.2%	8.0%
Fabricated metal product manufacturing	7.3%	7.3%

**51-1011 First-Line Supervisors of Production and Operating Workers**

Directly supervise and coordinate the activities of production and operating workers, such as inspectors, precision workers, machine setters and operators, assemblers, fabricators, and plant and system operators. Excludes team or work leaders.

**Entry-Level Education, Experience, & Training:**

HS Diploma   < 5 yrs   none	
2020 Estimated Employment:	2,974
2030 Projected Employment:	3,102
Growth Rate, 2020-2030:	4.3%
Annual Average Openings:	308
2021 Median Hourly Wage:	\$32.06

**Employing Industries**

	2020 Share	2030 Share
Fabricated metal product manufacturing	15.1%	16.1%
Computer/electronic product manufacturing	14.4%	14.8%
Plastics/rubber products manufacturing	7.7%	7.4%
Machinery manufacturing	6.8%	7.0%
Electrical equipment/appliance manufacturing	6.8%	7.0%
Food manufacturing	4.0%	4.2%

**51-2021 Coil Winders, Tapers, and Finishers**

Wind wire coils used in electrical components, such as resistors and transformers, and in electrical equipment and instruments, such as field cores, bobbins, armature cores, electrical motors, generators, and control equipment.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Moderate OJT</u>	
2020 Estimated Employment:	128
2030 Projected Employment:	108
Growth Rate, 2020-2030:	-15.6%
Annual Average Openings:	11
<u>2021 Median Hourly Wage:</u>	<u>\$18.09</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Electrical equipment/appliance manufacturing	43.8%	44.4%
Computer/electronic product manufacturing	39.1%	39.8%
Plastics/rubber products manufacturing	n	n
Primary metal manufacturing	n	n

**51-2028 Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers**

This occupation includes 2018 and 2010 SOC occupations 51-2022 Electrical and Electronic Equipment Assemblers and 51-2023 Electromechanical Equipment Assemblers.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Moderate OJT</u>	
2020 Estimated Employment:	3,298
2030 Projected Employment:	3,552
Growth Rate, 2020-2030:	7.7%
Annual Average Openings:	382
<u>2021 Median Hourly Wage:</u>	<u>\$18.33</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Computer/electronic product manufacturing	60.7%	61.0%
Electrical equipment/appliance manufacturing	18.9%	18.9%
Employment services	5.4%	5.6%
Plastics/rubber products manufacturing	5.3%	4.9%
Machinery manufacturing	4.3%	4.3%
Wholesale trade	1.9%	1.9%

**51-2031 Engine and Other Machine Assemblers**

Construct, assemble, or rebuild machines, such as engines, turbines, and similar equipment used in such industries as construction, extraction, textiles, and paper manufacturing.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Moderate OJT</u>	
2020 Estimated Employment:	65
2030 Projected Employment:	56
Growth Rate, 2020-2030:	-13.8%
Annual Average Openings:	5
<u>2021 Median Hourly Wage:</u>	<u>\$22.19</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Employment services	41.5%	42.9%
Wholesale trade	27.7%	26.8%
Architectural/engineering/related services	n	n
Management of companies/enterprises	n	n
Repair and maintenance	n	n
Transportation equipment manufacturing	n	n

**51-2041 Structural Metal Fabricators and Fitters**

Fabricate, position, align, and fit parts of structural metal products. Shipfitters are included in "Layout Workers, Metal and Plastic" (51-4192).

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Moderate OJT</u>	
2020 Estimated Employment:	145
2030 Projected Employment:	132
Growth Rate, 2020-2030:	-9%
Annual Average Openings:	13
<u>2021 Median Hourly Wage:</u>	<u>\$22.67</u>

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Fabricated metal product manufacturing	82.1%	80.3%
Specialty trade contractors	15.2%	16.7%

**51-2051 Fiberglass Laminators and Fabricators**



Laminate layers of fiberglass on molds to form boat decks and hulls, bodies for golf carts, automobiles, or other products.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Hourly Wage:	\$18.23

**Employing Industries**

	2020 Share	2030 Share
Other professional/scientific/technical services	n	n
Plastics/rubber products manufacturing	n	n
Transportation equipment manufacturing	n	n

**51-2090 Miscellaneous Assemblers and Fabricators**



This occupation includes the 2018 SOC occupations 51-2092 Team Assemblers and 51-2099 Assemblers and Fabricators, All Other and the 2010 SOC occupations 51-2092 Team Assemblers and 51-2099 Assemblers and Fabricators, All Other.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	5,330
2030 Projected Employment:	4,772
Growth Rate, 2020-2030:	-10.5%
Annual Average Openings:	497
2021 Median Hourly Wage:	\$17.86

**Employing Industries**

	2020 Share	2030 Share
Machinery manufacturing	26.8%	25.4%
Employment services	14.6%	17.7%
Fabricated metal product manufacturing	14.3%	14.2%
Miscellaneous manufacturing	11.0%	11.1%
Plastics/rubber products manufacturing	9.9%	8.8%
Computer/electronic product manufacturing	7.2%	6.9%

**51-3011 Bakers**



Mix and bake ingredients to produce breads, rolls, cookies, cakes, pies, pastries, or other baked goods. Pastry chefs in restaurants and hotels are included with "Chefs and Head Cooks" (35-1011).

**Entry-Level Education, Experience, & Training:**

No formal education   none   Long OJT	
2020 Estimated Employment:	880
2030 Projected Employment:	1,028
Growth Rate, 2020-2030:	16.8%
Annual Average Openings:	139
2021 Median Hourly Wage:	\$16.89

**Employing Industries**

	2020 Share	2030 Share
Food services/drinking places	40.9%	43.3%
Food manufacturing	28.2%	26.7%
Food/beverage stores	12.5%	10.4%
Self-employed workers	9.7%	11.5%
Wholesale trade	2.4%	2.2%
General merchandise stores	2.2%	1.7%

**51-3021 Butchers and Meat Cutters**



Cut, trim, or prepare consumer-sized portions of meat for use or sale in retail establishments.

**Entry-Level Education, Experience, & Training:**

No formal education   none   Long OJT	
2020 Estimated Employment:	530
2030 Projected Employment:	524
Growth Rate, 2020-2030:	-1.1%
Annual Average Openings:	59
2021 Median Hourly Wage:	\$22.38

**Employing Industries**

	2020 Share	2030 Share
Food/beverage stores	85.7%	84.9%
Gasoline stations	2.3%	2.1%
General merchandise stores	1.7%	1.5%

## 51-3022 Meat, Poultry, and Fish Cutters and Trimmers



Use hands or hand tools to perform routine cutting and trimming of meat, poultry, and seafood.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
<u>No formal education   none   Short OJT</u>		Animal production/aquaculture	n	n
2020 Estimated Employment:	n	Food/beverage stores	n	n
2030 Projected Employment:	n	General merchandise stores	n	n
Growth Rate, 2020-2030:	n	Self-employed workers	n	n
Annual Average Openings:	n			
<u>2021 Median Hourly Wage:</u>	<u>\$14.01</u>			

## 51-3023 Slaughterers and Meat Packers



Perform nonroutine or precision functions involving the preparation of large portions of meat. Work may include specialized slaughtering tasks, cutting standard or premium cuts of meat for marketing, making sausage, or wrapping meats. Work typically occurs in slaughtering, meat packing, or wholesale establishments. Excludes routine meat cutters.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
<u>No formal education   none   Short OJT</u>		Animal production/aquaculture	n	n
2020 Estimated Employment:	n	Food/beverage stores	n	n
2030 Projected Employment:	n	Food manufacturing	n	n
Growth Rate, 2020-2030:	n			
Annual Average Openings:	n			
<u>2021 Median Hourly Wage:</u>	<u>\$14.31</u>			

## 51-3091 Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders



Operate or tend food or tobacco roasting, baking, or drying equipment, including hearth ovens, kiln driers, roasters, char kilns, and vacuum drying equipment.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
<u>No formal education   none   Moderate OJT</u>		Food manufacturing	51.0%	53.7%
2020 Estimated Employment:	210	Food/beverage stores	49.1%	46.3%
2030 Projected Employment:	218			
Growth Rate, 2020-2030:	3.8%			
Annual Average Openings:	25			
<u>2021 Median Hourly Wage:</u>	<u>\$17.68</u>			

## 51-3092 Food Batchmakers



Set up and operate equipment that mixes or blends ingredients used in the manufacturing of food products. Includes candy makers and cheese makers.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>		Food manufacturing	88.2%	87.1%
2020 Estimated Employment:	330	Food services/drinking places	3.6%	4.2%
2030 Projected Employment:	356	Self-employed workers	2.7%	2.5%
Growth Rate, 2020-2030:	7.9%	Wholesale trade	1.5%	1.7%
Annual Average Openings:	45	Food/beverage stores	1.5%	1.4%
<u>2021 Median Hourly Wage:</u>	<u>\$14.72</u>	Non-store retailers	1.5%	2.0%

**51-3093 Food Cooking Machine Operators and Tenders**



Operate or tend cooking equipment, such as steam cooking vats, deep fry cookers, pressure cookers, kettles, and boilers, to prepare food products. Excludes “Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders” (51-3091).

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	31
2030 Projected Employment:	34
Growth Rate, 2020-2030:	9.7%
Annual Average Openings:	5
2021 Median Hourly Wage:	\$16.68

**Employing Industries**

	2020 Share	2030 Share
Food manufacturing	93.6%	91.2%
Management/scientific/technical consulting	6.5%	8.8%

**51-3099 Food Processing Workers, All Other**



All food processing workers not listed separately

**Entry-Level Education, Experience, & Training:**

No formal education   none   Moderate OJT	
2020 Estimated Employment:	118
2030 Projected Employment:	129
Growth Rate, 2020-2030:	9.3%
Annual Average Openings:	13
2021 Median Hourly Wage:	\$14.37

**Employing Industries**

	2020 Share	2030 Share
Employment services	66.1%	66.7%
Food manufacturing	17.0%	17.1%
General merchandise stores	11.0%	10.1%
Self-employed workers	4.2%	3.9%
Animal production/aquaculture	1.7%	2.3%

**51-4021 Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic**



Set up, operate, or tend machines to extrude or draw thermoplastic or metal materials into tubes, rods, hoses, wire, bars, or structural shapes.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Hourly Wage:	\$21.63

**Employing Industries**

	2020 Share	2030 Share
Electrical equipment/appliance manufacturing	n	n
Fabricated metal product manufacturing	n	n
Miscellaneous manufacturing	n	n
Plastics/rubber products manufacturing	n	n
Primary metal manufacturing	n	n
Transportation equipment manufacturing	n	n

**51-4022 Forging Machine Setters, Operators, and Tenders, Metal and Plastic**



Set up, operate, or tend forging machines to taper, shape, or form metal or plastic parts.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Wage:	n

**Employing Industries**

	2020 Share	2030 Share
Computer/electronic product manufacturing	n	n
Fabricated metal product manufacturing	n	n
Furniture/related product manufacturing	n	n



**51-4023 Rolling Machine Setters, Operators, and Tenders, Metal and Plastic**

Set up, operate, or tend machines to roll steel or plastic forming bends, beads, knurls, rolls, or plate, or to flatten, temper, or reduce gauge of material.

**Entry-Level Education, Experience, & Training:**

HS Diploma	none   Moderate OJT
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Hourly Wage:	\$21.60

**Employing Industries**

	2020 Share	2030 Share
Fabricated metal product manufacturing	n	n
Machinery manufacturing	n	n
Miscellaneous manufacturing	n	n
Plastics/rubber products manufacturing	n	n

**51-4031 Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic**

Set up, operate, or tend machines to saw, cut, shear, slit, punch, crimp, notch, bend, or straighten metal or plastic material.

**Entry-Level Education, Experience, & Training:**

HS Diploma	none   Moderate OJT
2020 Estimated Employment:	604
2030 Projected Employment:	585
Growth Rate, 2020-2030:	-3.1%
Annual Average Openings:	58
2021 Median Hourly Wage:	\$18.17

**Employing Industries**

	2020 Share	2030 Share
Fabricated metal product manufacturing	47.5%	48.9%
Plastics/rubber products manufacturing	15.2%	14.2%
Primary metal manufacturing	8.4%	8.0%
Machinery manufacturing	8.4%	8.4%
Transportation equipment manufacturing	7.6%	7.7%
Wholesale trade	6.1%	6.2%

**51-4032 Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic**

Set up, operate, or tend drilling machines to drill, bore, ream, mill, or countersink metal or plastic work pieces.

**Entry-Level Education, Experience, & Training:**

HS Diploma	none   Moderate OJT
2020 Estimated Employment:	36
2030 Projected Employment:	29
Growth Rate, 2020-2030:	-19.4%
Annual Average Openings:	2
2021 Median Hourly Wage:	\$17.82

**Employing Industries**

	2020 Share	2030 Share
Computer/electronic product manufacturing	n	n
Electrical equipment/appliance manufacturing	n	n
Fabricated metal product manufacturing	n	n
Plastics/rubber products manufacturing	n	n

**51-4033 Grinding, Lapping, Polishing, Buffing Machine Tool Setters, Operators, and Tenders, Metal/Plastic**

Set up, operate, or tend grinding and related tools that remove excess material or burrs from surfaces, sharpen edges or corners, or buff, hone, or polish metal or plastic work pieces.

**Entry-Level Education, Experience, & Training:**

HS Diploma	none   Moderate OJT
2020 Estimated Employment:	694
2030 Projected Employment:	669
Growth Rate, 2020-2030:	-3.6%
Annual Average Openings:	76
2021 Median Hourly Wage:	\$18.10

**Employing Industries**

	2020 Share	2030 Share
Fabricated metal product manufacturing	41.1%	42.3%
Primary metal manufacturing	18.3%	18.4%
Transportation equipment manufacturing	14.3%	13.3%
Machinery manufacturing	12.7%	12.7%
Repair and maintenance	1.9%	1.8%

**51-4034 Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic**

Set up, operate, or tend lathe and turning machines to turn, bore, thread, form, or face metal or plastic materials, such as wire, rod, or bar stock.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	65
2030 Projected Employment:	61
Growth Rate, 2020-2030:	-6.2%
Annual Average Openings:	6
2021 Median Hourly Wage:	\$23.05

**Employing Industries**

	2020 Share	2030 Share
Fabricated metal product manufacturing	69.2%	68.9%
Machinery manufacturing	13.9%	13.1%
Transportation equipment manufacturing	10.8%	11.5%
Wholesale trade	6.2%	6.6%

**51-4035 Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic**

Set up, operate, or tend milling or planing machines to mill, plane, shape, groove, or profile metal or plastic work pieces.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	43
2030 Projected Employment:	35
Growth Rate, 2020-2030:	-18.6%
Annual Average Openings:	3
2021 Median Hourly Wage:	\$23.20

**Employing Industries**

	2020 Share	2030 Share
Fabricated metal product manufacturing	74.4%	80.0%
Building material/garden supply stores	n	n
Electrical equipment/appliance manufacturing	n	n
Employment services	n	n
Machinery manufacturing	n	n

**51-4041 Machinists**

Set up and operate machine tools to produce precision parts and instruments out of metal. Includes precision instrument makers who fabricate, modify, or repair mechanical instruments. Fabricate or modify parts to make or repair machine tools or maintain industrial machines, using knowledge of mechanics, math, metal properties, layout, and machining.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Long OJT	
2020 Estimated Employment:	1,942
2030 Projected Employment:	2,103
Growth Rate, 2020-2030:	8.3%
Annual Average Openings:	222
2021 Median Hourly Wage:	\$23.18

**Employing Industries**

	2020 Share	2030 Share
Fabricated metal product manufacturing	47.1%	48.3%
Transportation equipment manufacturing	11.3%	10.4%
Machinery manufacturing	8.8%	8.7%
Computer/electronic product manufacturing	8.6%	8.6%
Electrical equipment/appliance manufacturing	7.2%	7.1%
Employment services	4.1%	4.1%

**51-4051 Metal-Refining Furnace Operators and Tenders**

Operate or tend furnaces, such as gas, oil, coal, electric-arc or electric induction, open-hearth, or oxygen furnaces, to melt and refine metal before casting or to produce specified types of steel. Excludes "Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic" (51-4191).

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	61
2030 Projected Employment:	63
Growth Rate, 2020-2030:	3.3%
Annual Average Openings:	5
2021 Median Hourly Wage:	\$22.66

**Employing Industries**

	2020 Share	2030 Share
Primary metal manufacturing	57.4%	57.1%
Wholesale trade	24.6%	25.4%
Fabricated metal product manufacturing	14.8%	14.3%
Machinery manufacturing	3.3%	3.2%

## 51-4052 Pourers and Casters, Metal



Operate hand-controlled mechanisms to pour and regulate the flow of molten metal into molds to produce castings or ingots.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	40
2030 Projected Employment:	39
Growth Rate, 2020-2030:	-2.5%
Annual Average Openings:	4
2021 Median Hourly Wage:	\$18.49

**Employing Industries**

	2020 Share	2030 Share
Fabricated metal product manufacturing	n	n
Primary metal manufacturing	n	n

## 51-4061 Model Makers, Metal and Plastic



Set up and operate machines, such as lathes, milling and engraving machines, and jig borers to make working models of metal or plastic objects. Includes template makers.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	32
2030 Projected Employment:	32
Growth Rate, 2020-2030:	0%
Annual Average Openings:	3
2021 Median Hourly Wage:	\$38.61

**Employing Industries**

	2020 Share	2030 Share
Scientific research/development services	75.0%	75.0%
Fabricated metal product manufacturing	n	n
Machinery manufacturing	n	n
Management of companies/enterprises	n	n
Plastics/rubber products manufacturing	n	n

## 51-4062 Patternmakers, Metal and Plastic



Lay out, machine, fit, and assemble castings and parts to metal or plastic foundry patterns, core boxes, or match plates.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Wage:	n

**Employing Industries**

	2020 Share	2030 Share
Fabricated metal product manufacturing	n	n
Primary metal manufacturing	n	n

## 51-4071 Foundry Mold and Coremakers



Make or form wax or sand cores or molds used in the production of metal castings in foundries. Excludes "Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic" (51-4072) and "Molders, Shapers, and Casters, Except Metal and Plastic" (51-9195).

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	146
2030 Projected Employment:	143
Growth Rate, 2020-2030:	-2.1%
Annual Average Openings:	15
2021 Median Wage:	n

**Employing Industries**

	2020 Share	2030 Share
Primary metal manufacturing	85.6%	85.3%

**51-4072 Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic**

Set up, operate, or tend metal or plastic molding, casting, or coremaking machines to mold or cast metal or thermoplastic parts or products.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	790
2030 Projected Employment:	742
Growth Rate, 2020-2030:	-6.1%
Annual Average Openings:	72
2021 Median Hourly Wage:	\$17.71

**Employing Industries**

	2020 Share	2030 Share
Plastics/rubber products manufacturing	51.3%	49.2%
Primary metal manufacturing	16.6%	17.1%
Fabricated metal product manufacturing	7.1%	7.6%
Miscellaneous manufacturing	6.1%	6.5%
Furniture/related product manufacturing	4.8%	4.7%
Employment services	4.7%	5.0%

**51-4081 Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic**

Set up, operate, or tend more than one type of cutting or forming machine tool or robot.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	1,131
2030 Projected Employment:	1,206
Growth Rate, 2020-2030:	6.6%
Annual Average Openings:	125
2021 Median Hourly Wage:	\$18.09

**Employing Industries**

	2020 Share	2030 Share
Fabricated metal product manufacturing	42.2%	43.4%
Plastics/rubber products manufacturing	20.7%	19.4%
Transportation equipment manufacturing	9.3%	9.5%
Machinery manufacturing	8.3%	8.3%
Primary metal manufacturing	5.9%	5.7%
Miscellaneous manufacturing	5.4%	5.6%

**51-4111 Tool and Die Makers**

Analyze specifications, lay out metal stock, set up and operate machine tools, and fit and assemble parts to make and repair dies, cutting tools, jigs, fixtures, gauges, and machinists' hand tools.

**Entry-Level Education, Experience, & Training:**

Postsecondary   none   Long OJT	
2020 Estimated Employment:	259
2030 Projected Employment:	264
Growth Rate, 2020-2030:	1.9%
Annual Average Openings:	26
2021 Median Hourly Wage:	\$29.42

**Employing Industries**

	2020 Share	2030 Share
Fabricated metal product manufacturing	35.5%	35.2%
Machinery manufacturing	17.8%	17.1%
Electrical equipment/appliance manufacturing	12.4%	13.3%
Transportation equipment manufacturing	10.4%	9.9%
Primary metal manufacturing	7.0%	6.8%
Computer/electronic product manufacturing	6.6%	6.8%

**51-4121 Welders, Cutters, Solderers, and Brazers**

Use hand-welding, flame-cutting, hand-soldering, or brazing equipment to weld or join metal components or to fill holes, indentations, or seams of fabricated metal products.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	985
2030 Projected Employment:	1,068
Growth Rate, 2020-2030:	8.4%
Annual Average Openings:	116
2021 Median Hourly Wage:	\$23.37

**Employing Industries**

	2020 Share	2030 Share
Fabricated metal product manufacturing	33.2%	34.3%
Machinery manufacturing	13.1%	12.8%
Transportation equipment manufacturing	10.0%	9.0%
Specialty trade contractors	7.5%	7.4%
Repair and maintenance	7.3%	8.0%
Computer/electronic product manufacturing	5.6%	5.5%

**51-4122 Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders** 

Set up, operate, or tend welding, soldering, or brazing machines or robots that weld, braze, solder, or heat treat metal products, components, or assemblies. Includes workers who operate laser cutters or laser-beam machines.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>		Fabricated metal product manufacturing		52.5%	53.3%
2020 Estimated Employment:	324	Electrical equipment/appliance manufacturing		16.1%	16.0%
2030 Projected Employment:	319	Plastics/rubber products manufacturing		11.4%	10.7%
Growth Rate, 2020-2030:	-1.5%	Computer/electronic product manufacturing		7.7%	7.5%
Annual Average Openings:	33	Self-employed workers		4.0%	4.4%
<u>2021 Median Hourly Wage:</u>	<u>\$18.37</u>				

**51-4191 Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic** 

Set up, operate, or tend heating equipment, such as heat-treating furnaces, flame-hardening machines, induction machines, soaking pits, or vacuum equipment to temper, harden, anneal, or heat treat metal or plastic objects.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>		Fabricated metal product manufacturing		55.3%	56.5%
2020 Estimated Employment:	94	Self-employed workers		2.1%	2.2%
2030 Projected Employment:	92	Employment services		n	n
Growth Rate, 2020-2030:	-2.1%	Nonmetallic mineral product manufacturing		n	n
Annual Average Openings:	9	Plastics/rubber products manufacturing		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$18.55</u>	Primary metal manufacturing		n	n

**51-4192 Layout Workers, Metal and Plastic** 

Lay out reference points and dimensions on metal or plastic stock or workpieces, such as sheets, plates, tubes, structural shapes, castings, or machine parts, for further processing. Includes shipfitters.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>		Computer/electronic product manufacturing		n	n
2020 Estimated Employment:	n				
2030 Projected Employment:	n				
Growth Rate, 2020-2030:	n				
Annual Average Openings:	n				
<u>2021 Median Wage:</u>	<u>n</u>				

**51-4193 Plating Machine Setters, Operators, and Tenders, Metal and Plastic** 

Set up, operate, or tend plating machines to coat metal or plastic products with chromium, zinc, copper, cadmium, nickel, or other metal to protect or decorate surfaces. Typically, the product being coated is immersed in molten metal or an electrolytic solution.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>		Computer/electronic product manufacturing		42.7%	42.9%
2020 Estimated Employment:	218	Electrical equipment/appliance manufacturing		22.0%	22.4%
2030 Projected Employment:	210	Fabricated metal product manufacturing		17.0%	17.1%
Growth Rate, 2020-2030:	-3.7%	Plastics/rubber products manufacturing		15.6%	14.8%
Annual Average Openings:	20	Primary metal manufacturing		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$18.23</u>	Self-employed workers		n	n

## 51-4194 Tool Grinders, Filers, and Sharpeners



Perform precision smoothing, sharpening, polishing, or grinding of metal objects.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   none   Moderate OJT		Repair and maintenance		51.8%	52.7%
2020 Estimated Employment:	56	Fabricated metal product manufacturing		17.9%	18.2%
2030 Projected Employment:	55	Primary metal manufacturing		12.5%	12.7%
Growth Rate, 2020-2030:	-1.8%	Self-employed workers		1.8%	1.8%
Annual Average Openings:	6	Machinery manufacturing		n	n
2021 Median Hourly Wage:	\$22.66	Wood product manufacturing		n	n

## 51-4199 Metal Workers and Plastic Workers, All Other



All metal workers and plastic workers not listed separately.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   none   Moderate OJT		Electrical equipment/appliance manufacturing		26.0%	25.6%
2020 Estimated Employment:	523	Miscellaneous manufacturing		19.9%	21.0%
2030 Projected Employment:	519	Fabricated metal product manufacturing		17.0%	17.0%
Growth Rate, 2020-2030:	-0.8%	Employment services		15.1%	15.0%
Annual Average Openings:	52	Primary metal manufacturing		6.9%	6.6%
2021 Median Hourly Wage:	\$18.10	Wholesale trade		2.9%	2.9%

## 51-5111 Prepress Technicians and Workers



Format and proof text and images submitted by designers and clients into finished pages that can be printed. Includes digital and photo typesetting. May produce printing plates.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
Postsecondary   none   none		Printing/related support activities		80.4%	76.1%
2020 Estimated Employment:	97	Self-employed workers		2.1%	3.0%
2030 Projected Employment:	67	Paper manufacturing		n	n
Growth Rate, 2020-2030:	-30.9%	Plastics/rubber products manufacturing		n	n
Annual Average Openings:	8	Publishing industries		n	n
2021 Median Hourly Wage:	\$22.55				

## 51-5112 Printing Press Operators



Set up and operate digital, letterpress, lithographic, flexographic, gravure, or other printing machines. Includes short-run offset printing presses.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   none   Moderate OJT		Printing/related support activities		58.7%	51.4%
2020 Estimated Employment:	797	Wholesale trade		4.6%	5.5%
2030 Projected Employment:	691	Food/beverage stores		4.5%	5.1%
Growth Rate, 2020-2030:	-13.3%	Employment services		4.4%	5.6%
Annual Average Openings:	68	Computer systems design/related services		3.9%	5.4%
2021 Median Hourly Wage:	\$19.10				

## 51-5113 Print Binding and Finishing Workers



Bind books and other publications or finish printed products by hand or machine. May set up binding and finishing machines.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	199
2030 Projected Employment:	143
Growth Rate, 2020-2030:	-28.1%
Annual Average Openings:	13
2021 Median Hourly Wage:	\$17.59

**Employing Industries**

	2020 Share	2030 Share
Printing/related support activities	96.0%	95.1%

## 51-6011 Laundry and Dry-Cleaning Workers



Operate or tend washing or dry-cleaning machines to wash or dry-clean industrial or household articles, such as cloth garments, suede, leather, furs, blankets, draperies, linens, rugs, and carpets. Includes spotters and dyers of these articles.

**Entry-Level Education, Experience, & Training:**

No formal education   none   Short OJT	
2020 Estimated Employment:	695
2030 Projected Employment:	781
Growth Rate, 2020-2030:	12.4%
Annual Average Openings:	107
2021 Median Hourly Wage:	\$14.01

**Employing Industries**

	2020 Share	2030 Share
Personal and laundry services	47.8%	48.8%
Accommodation	15.1%	16.4%
Local government	11.1%	10.8%
Nursing/residential care facilities	10.1%	9.2%
Employment services	6.5%	6.3%
Hospitals	4.0%	3.7%

## 51-6021 Pressers, Textile, Garment, and Related Materials



Press or shape articles by hand or machine.

**Entry-Level Education, Experience, & Training:**

No formal education   none   Short OJT	
2020 Estimated Employment:	143
2030 Projected Employment:	132
Growth Rate, 2020-2030:	-7.7%
Annual Average Openings:	13
2021 Median Hourly Wage:	\$11.35

**Employing Industries**

	2020 Share	2030 Share
Personal and laundry services	97.9%	98.5%
Apparel manufacturing	2.1%	1.5%

## 51-6031 Sewing Machine Operators



Operate or tend sewing machines to join, reinforce, decorate, or perform related sewing operations in the manufacture of garment or nongarment products.

**Entry-Level Education, Experience, & Training:**

No formal education   none   Short OJT	
2020 Estimated Employment:	520
2030 Projected Employment:	421
Growth Rate, 2020-2030:	-19%
Annual Average Openings:	43
2021 Median Hourly Wage:	\$14.37

**Employing Industries**

	2020 Share	2030 Share
Apparel manufacturing	45.6%	37.3%
Textile product mills	11.9%	13.8%
Self-employed workers	11.2%	10.2%
Food/beverage stores	5.4%	6.7%
Printing/related support activities	5.0%	4.8%
Miscellaneous manufacturing	3.9%	5.2%

**51-6041 Shoe and Leather Workers and Repairers**

Construct, decorate, or repair leather and leather-like products, such as luggage, shoes, and saddles. May use hand tools.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Hourly Wage:	\$17.99

**Employing Industries**

	2020 Share	2030 Share
Leather/allied product manufacturing	n	n
Self-employed workers	n	n

**51-6042 Shoe Machine Operators and Tenders**

Operate or tend a variety of machines to join, decorate, reinforce, or finish shoes and shoe parts.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Short OJT	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Wage:	n

**Employing Industries**

	2020 Share	2030 Share
Leather/allied product manufacturing	n	n
Self-employed workers	n	n

**51-6052 Tailors, Dressmakers, and Custom Sewers**

Design, make, alter, repair, or fit garments.

**Entry-Level Education, Experience, & Training:**

No formal education   none   Moderate OJT	
2020 Estimated Employment:	113
2030 Projected Employment:	101
Growth Rate, 2020-2030:	-10.6%
Annual Average Openings:	12
2021 Median Hourly Wage:	\$14.17

**Employing Industries**

	2020 Share	2030 Share
Self-employed workers	47.8%	45.5%
Repair and maintenance	23.0%	25.7%
Clothing/clothing accessories stores	19.5%	17.8%
Nursing/residential care facilities	n	n
Sporting goods/hobby/book/music stores	n	n
Textile product mills	n	n

**51-6061 Textile Bleaching and Dyeing Machine Operators and Tenders**

Operate or tend machines to bleach, shrink, wash, dye, or finish textiles or synthetic or glass fibers.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Short OJT	
2020 Estimated Employment:	140
2030 Projected Employment:	129
Growth Rate, 2020-2030:	-7.9%
Annual Average Openings:	15
2021 Median Hourly Wage:	\$16.90

**Employing Industries**

	2020 Share	2030 Share
Textile mills	88.6%	85.3%
Miscellaneous manufacturing	10.0%	13.2%
Self-employed workers	1.4%	1.6%



**51-6062 Textile Cutting Machine Setters, Operators, and Tenders**

Set up, operate, or tend machines that cut textiles.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	134
2030 Projected Employment:	126
Growth Rate, 2020-2030:	-6%
Annual Average Openings:	14
2021 Median Hourly Wage:	\$17.36

**Employing Industries**

	2020 Share	2030 Share
Apparel manufacturing	n	n
Colleges/universities/professional schools	n	n
Miscellaneous manufacturing	n	n
Self-employed workers	n	n
Textile mills	n	n

**51-6063 Textile Knitting and Weaving Machine Setters, Operators, and Tenders**

Set up, operate, or tend machines that knit, loop, weave, or draw in textiles. Excludes "Sewing Machine Operators" (51-6031).

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Short OJT	
2020 Estimated Employment:	233
2030 Projected Employment:	213
Growth Rate, 2020-2030:	-8.6%
Annual Average Openings:	24
2021 Median Hourly Wage:	\$17.29

**Employing Industries**

	2020 Share	2030 Share
Self-employed workers	1.3%	1.4%
Miscellaneous manufacturing	n	n
Textile mills	n	n

**51-6064 Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders**

Set up, operate, or tend machines that wind or twist textiles; or draw out and combine sliver, such as wool, hemp, or synthetic fibers. Includes slubber machine and drawing frame operators.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	99
2030 Projected Employment:	91
Growth Rate, 2020-2030:	-8.1%
Annual Average Openings:	10
2021 Median Hourly Wage:	\$16.07

**Employing Industries**

	2020 Share	2030 Share
Chemical manufacturing	n	n
Miscellaneous manufacturing	n	n
Self-employed workers	n	n
Textile mills	n	n
Wholesale trade	n	n

**51-6091 Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers**

Set up, operate, or tend machines that extrude and form continuous filaments from synthetic materials, such as liquid polymer, rayon, and fiberglass.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Hourly Wage:	\$18.70

**Employing Industries**

	2020 Share	2030 Share
Chemical manufacturing	n	n
Self-employed workers	n	n
Textile mills	n	n

## 51-6092 Fabric and Apparel Patternmakers



Draw and construct sets of precision master fabric patterns or layouts. May also mark and cut fabrics and apparel.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   none   Moderate OJT		Apparel manufacturing		n	n
2020 Estimated Employment:	n	Specialty trade contractors		n	n
2030 Projected Employment:	n	Textile product mills		n	n
Growth Rate, 2020-2030:	n				
Annual Average Openings:	n				
2021 Median Wage:	n				

## 51-6093 Upholsterers



Make, repair, or replace upholstery for household furniture or transportation vehicles.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   none   Moderate OJT		Furniture/home furnishings stores		n	n
2020 Estimated Employment:	52	Leather/allied product manufacturing		n	n
2030 Projected Employment:	48	Repair and maintenance		n	n
Growth Rate, 2020-2030:	-7.7%	Self-employed workers		n	n
Annual Average Openings:	5	Transportation equipment manufacturing		n	n
2021 Median Hourly Wage:	\$23.58				

## 51-6099 Textile, Apparel, and Furnishings Workers, All Other



All textile, apparel, and furnishings workers not listed separately.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   none   Short OJT		Textile mills		69.3%	64.3%
2020 Estimated Employment:	114	Miscellaneous manufacturing		25.4%	30.4%
2030 Projected Employment:	112	Apparel manufacturing		n	n
Growth Rate, 2020-2030:	-1.8%	Motor vehicle/parts dealers		n	n
Annual Average Openings:	13				
2021 Median Hourly Wage:	\$17.95				

## 51-7011 Cabinetmakers and Bench Carpenters



Cut, shape, and assemble wooden articles or set up and operate a variety of woodworking machines, such as power saws, jointers, and mortisers to surface, cut, or shape lumber or to fabricate parts for wood products. Excludes "Woodworking Machine Setters, Operators, and Tenders" (51-7040).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   none   Moderate OJT		Furniture/related product manufacturing		62.7%	62.2%
2020 Estimated Employment:	287	Self-employed workers		10.8%	11.7%
2030 Projected Employment:	291	Wood product manufacturing		6.3%	5.5%
Growth Rate, 2020-2030:	1.4%	Building material/garden supply stores		n	n
Annual Average Openings:	27	Construction of buildings		n	n
2021 Median Hourly Wage:	\$22.38	Non-store retailers		n	n

**51-7021 Furniture Finishers**



Shape, finish, and refinish damaged, worn, or used furniture or new high-grade furniture to specified color or finish.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Short OJT</u>		Furniture/home furnishings stores		n	n
2020 Estimated Employment:	n	Furniture/related product manufacturing		n	n
2030 Projected Employment:	n	Repair and maintenance		n	n
Growth Rate, 2020-2030:	n	Self-employed workers		n	n
Annual Average Openings:	n	Wood product manufacturing		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$22.61</u>				

**51-7041 Sawing Machine Setters, Operators, and Tenders, Wood**



Set up, operate, or tend wood sawing machines. May operate computer numerically controlled (CNC) equipment. Includes lead sawyers. Workers who primarily program or operate CNC equipment are classified in "Computer Numerically Controlled Tool Operators and Programmers" (51-9160).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>		Wood product manufacturing		77.8%	76.5%
2020 Estimated Employment:	171	Furniture/related product manufacturing		12.9%	14.4%
2030 Projected Employment:	153	Self-employed workers		n	n
Growth Rate, 2020-2030:	-10.5%	Wholesale trade		n	n
Annual Average Openings:	16				
<u>2021 Median Hourly Wage:</u>	<u>\$17.96</u>				

**51-7042 Woodworking Machine Setters, Operators, and Tenders, Except Sawing**



Set up, operate, or tend woodworking machines, such as drill presses, lathes, shapers, routers, sanders, planers, and wood nailing machines. May operate computer numerically controlled (CNC) equipment. Workers who primarily program or operate CNC equipment are classified in "Computer Numerically Controlled Tool Operators and Programmers" (51-9160).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>		Wood product manufacturing		63.2%	59.6%
2020 Estimated Employment:	459	Furniture/related product manufacturing		17.2%	18.5%
2030 Projected Employment:	428	Plastics/rubber products manufacturing		9.8%	10.5%
Growth Rate, 2020-2030:	-6.8%	Wholesale trade		2.8%	3.3%
Annual Average Openings:	42	Miscellaneous manufacturing		2.4%	3.0%
<u>2021 Median Hourly Wage:</u>	<u>\$16.92</u>				

**51-8011 Nuclear Power Reactor Operators**



Operate or control nuclear reactors. Move control rods, start and stop equipment, monitor and adjust controls, and record data in logs. Implement emergency procedures when needed. May respond to abnormalities, determine cause, and recommend corrective action.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Long OJT</u>		Utilities		n	n
2020 Estimated Employment:	n				
2030 Projected Employment:	n				
Growth Rate, 2020-2030:	n				
Annual Average Openings:	n				
<u>2021 Median Wage:</u>	<u>n</u>				

51-8013 Power Plant Operators 

Control, operate, or maintain machinery to generate electric power. Includes auxiliary equipment operators. Excludes “Nuclear Power Reactor Operators” (51-8011).

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   none   Long OJT	Utilities	100.0%	100.0%
2020 Estimated Employment: 117			
2030 Projected Employment: 95			
Growth Rate, 2020-2030: -18.8%			
Annual Average Openings: 8			
2021 Median Hourly Wage: \$30.24			

51-8021 Stationary Engineers and Boiler Operators 

Operate or maintain stationary engines, boilers, or other mechanical equipment to provide utilities for buildings or industrial processes. Operate equipment such as steam engines, generators, motors, turbines, and steam boilers.

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   none   Long OJT	Beverage/tobacco product manufacturing	n	n
2020 Estimated Employment: 124	Colleges/universities/professional schools	n	n
2030 Projected Employment: 124	Hospitals	n	n
Growth Rate, 2020-2030: 0%	Paper manufacturing	n	n
Annual Average Openings: 15	Textile mills	n	n
2021 Median Hourly Wage: \$28.95	Utilities	n	n

51-8031 Water and Wastewater Treatment Plant and System Operators 

Operate or control an entire process or system of machines, often through the use of control boards, to transfer or treat water or wastewater.

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   none   Long OJT	Local government	78.8%	78.9%
2020 Estimated Employment: 452	Utilities	14.8%	15.0%
2030 Projected Employment: 441	State government	2.9%	2.7%
Growth Rate, 2020-2030: -2.4%	Self-employed workers	1.1%	1.1%
Annual Average Openings: 40			
2021 Median Hourly Wage: \$23.79			

51-8092 Gas Plant Operators 

Distribute or process gas for utility companies and others by controlling compressors to maintain specified pressures on main pipelines.

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   none   Long OJT	Management of companies/enterprises	n	n
2020 Estimated Employment: n	Utilities	n	n
2030 Projected Employment: n	Waste management/remediation services	n	n
Growth Rate, 2020-2030: n			
Annual Average Openings: n			
2021 Median Wage: n			

**51-8093 Petroleum Pump System Operators, Refinery Operators, and Gaugers**



Operate or control petroleum refining or processing units. May specialize in controlling manifold and pumping systems, gauging or testing oil in storage tanks, or regulating the flow of oil into pipelines.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>		Federal government		n	n
2020 Estimated Employment:	n	Wholesale trade		n	n
2030 Projected Employment:	n				
Growth Rate, 2020-2030:	n				
Annual Average Openings:	n				
<u>2021 Median Wage:</u>	<u>n</u>				

**51-8099 Plant and System Operators, All Other**



All plant and system operators not listed separately.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>		Petroleum/coal products manufacturing		44.9%	44.1%
2020 Estimated Employment:	118	Mining (except oil/gas)		38.1%	39.4%
2030 Projected Employment:	127	Heavy/civil engineering construction		6.8%	7.1%
Growth Rate, 2020-2030:	7.6%	Federal government		n	n
Annual Average Openings:	14	Nonmetallic mineral product manufacturing		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$28.65</u>	Wholesale trade		n	n

**51-9011 Chemical Equipment Operators and Tenders**



Operate or tend equipment to control chemical changes or reactions in the processing of industrial or consumer products. Equipment used includes devulcanizers, steam-jacketed kettles, and reactor vessels. Excludes “Chemical Plant and System Operators” (51-8091).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>		Computer/electronic product manufacturing		48.0%	47.0%
2020 Estimated Employment:	177	Chemical manufacturing		24.9%	26.3%
2030 Projected Employment:	198	Machinery manufacturing		10.7%	10.6%
Growth Rate, 2020-2030:	11.9%	Architectural/engineering/related services		7.3%	7.6%
Annual Average Openings:	20	Fabricated metal product manufacturing		6.8%	6.6%
<u>2021 Median Hourly Wage:</u>	<u>\$23.31</u>				

**51-9012 Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders**



Set up, operate, or tend continuous flow or vat-type equipment; filter presses; shaker screens; centrifuges; condenser tubes; precipitating, fermenting, or evaporating tanks; scrubbing towers; or batch stills to extract, sort, or separate liquids, gases, or solids from materials to recover a refined product. Include dairy processing equipment operators.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>		Beverage/tobacco product manufacturing		85.9%	86.0%
2020 Estimated Employment:	249	Food manufacturing		10.8%	10.6%
2030 Projected Employment:	265	Crop production		1.6%	1.5%
Growth Rate, 2020-2030:	6.4%				
Annual Average Openings:	28				
<u>2021 Median Hourly Wage:</u>	<u>\$19.12</u>				

**51-9021 Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders**

Set up, operate, or tend machines to crush, grind, or polish materials, such as coal, glass, grain, stone, food, or rubber.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   none   Moderate OJT		Wholesale trade		26.6%	26.2%
2020 Estimated Employment:	203	Mining (except oil/gas)		23.7%	25.3%
2030 Projected Employment:	202	Paper manufacturing		12.8%	10.4%
Growth Rate, 2020-2030:	-0.5%	Nonmetallic mineral product manufacturing		7.9%	7.9%
Annual Average Openings:	22	Food manufacturing		n	n
2021 Median Hourly Wage:	\$22.05	Specialty trade contractors		n	n

**51-9022 Grinding and Polishing Workers, Hand**

Grind, sand, or polish, using hand tools or hand-held power tools, a variety of metal, wood, stone, clay, plastic, or glass objects. Includes chippers, buffers, and finishers.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
No formal education   none   Moderate OJT		Employment services		n	n
2020 Estimated Employment:	35	Machinery manufacturing		n	n
2030 Projected Employment:	30	Nonmetallic mineral product manufacturing		n	n
Growth Rate, 2020-2030:	-14.3%	Wholesale trade		n	n
Annual Average Openings:	3				
2021 Median Wage:	n				

**51-9023 Mixing and Blending Machine Setters, Operators, and Tenders**

Set up, operate, or tend machines to mix or blend materials, such as chemicals, tobacco, liquids, color pigments, or explosive ingredients. Excludes "Food Batchmakers" (51-3092).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   none   Moderate OJT		Chemical manufacturing		35.2%	41.3%
2020 Estimated Employment:	386	Nonmetallic mineral product manufacturing		26.7%	23.5%
2030 Projected Employment:	443	Scientific research/development services		11.1%	10.6%
Growth Rate, 2020-2030:	14.8%	Food manufacturing		n	n
Annual Average Openings:	51	Miscellaneous manufacturing		n	n
2021 Median Hourly Wage:	\$22.38	Petroleum/coal products manufacturing		n	n

**51-9031 Cutters and Trimmers, Hand**

Use hand tools or hand-held power tools to cut and trim a variety of manufactured items, such as carpet, fabric, stone, glass, or rubber.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
No formal education   none   Short OJT		Leather/allied product manufacturing		n	n
2020 Estimated Employment:	n	Local government		n	n
2030 Projected Employment:	n	Miscellaneous manufacturing		n	n
Growth Rate, 2020-2030:	n	Plastics/rubber products manufacturing		n	n
Annual Average Openings:	n	Printing/related support activities		n	n
2021 Median Hourly Wage:	\$14.31	Self-employed workers		n	n

**51-9032 Cutting and Slicing Machine Setters, Operators, and Tenders**

Set up, operate, or tend machines that cut or slice materials, such as glass, stone, cork, rubber, tobacco, food, paper, or insulating material.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	213
2030 Projected Employment:	209
Growth Rate, 2020-2030:	-1.9%
Annual Average Openings:	25
2021 Median Hourly Wage:	\$22.95

**Employing Industries**

	2020 Share	2030 Share
Nonmetallic mineral product manufacturing	28.2%	29.2%
Food manufacturing	21.1%	19.6%
Miscellaneous manufacturing	9.9%	11.5%
Building material/garden supply stores	6.6%	6.2%
Paper manufacturing	n	n
Printing/related support activities	n	n

**51-9041 Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders**

Set up, operate, or tend machines, such as glass-forming machines, plodder machines, and tuber machines, to shape and form products such as glassware, food, rubber, soap, brick, tile, clay, wax, tobacco, or cosmetics. Excludes "Shoe Machine Operators and Tenders" (51-6042) and "Paper Goods Machine Setters, Operators, and Tenders" (51-9196).

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	199
2030 Projected Employment:	210
Growth Rate, 2020-2030:	5.5%
Annual Average Openings:	22
2021 Median Hourly Wage:	\$17.59

**Employing Industries**

	2020 Share	2030 Share
Plastics/rubber products manufacturing	47.7%	45.2%
Nonmetallic mineral product manufacturing	21.1%	20.0%
Miscellaneous manufacturing	21.1%	22.4%
Chemical manufacturing	n	n
Employment services	n	n

**51-9051 Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders**

Operate or tend heating equipment other than basic metal, plastic, or food processing equipment. Includes activities such as annealing glass, drying lumber, curing rubber, removing moisture from materials, or boiling soap.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	31
2030 Projected Employment:	33
Growth Rate, 2020-2030:	6.5%
Annual Average Openings:	3
2021 Median Hourly Wage:	\$21.61

**Employing Industries**

	2020 Share	2030 Share
Electrical equipment/appliance manufacturing	n	n
Machinery manufacturing	n	n
Nonmetallic mineral product manufacturing	n	n
Waste management/remediation services	n	n
Wholesale trade	n	n
Wood product manufacturing	n	n

**51-9061 Inspectors, Testers, Sorters, Samplers, and Weighers**

Inspect, test, sort, sample, or weigh nonagricultural raw materials or processed, machined, fabricated, or assembled parts or products for defects, wear, and deviations from specifications. May use precision measuring instruments and complex test equipment.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	3,365
2030 Projected Employment:	2,967
Growth Rate, 2020-2030:	-11.8%
Annual Average Openings:	333
2021 Median Hourly Wage:	\$22.74

**Employing Industries**

	2020 Share	2030 Share
Fabricated metal product manufacturing	21.6%	21.6%
Computer/electronic product manufacturing	19.1%	20.3%
Machinery manufacturing	8.7%	8.4%
Electrical equipment/appliance manufacturing	6.6%	6.5%
Plastics/rubber products manufacturing	6.4%	5.8%
Primary metal manufacturing	5.8%	5.5%

51-9071 Jewelers and Precious Stone and Metal Workers 

Design, fabricate, adjust, repair, or appraise jewelry, gold, silver, other precious metals, or gems. Includes diamond polishers and gem cutters, and persons who perform precision casting and modeling of molds, casting metal in molds, or setting precious and semiprecious stones for jewelry and related products.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Long OJT</u>	
2020 Estimated Employment:	92
2030 Projected Employment:	83
Growth Rate, 2020-2030:	-9.8%
Annual Average Openings:	10
2021 Median Hourly Wage:	\$27.58

**Employing Industries**

	2020 Share	2030 Share
Self-employed workers	40.2%	42.2%
Clothing/clothing accessories stores	37.0%	34.9%
Miscellaneous store retailers	19.6%	19.3%
Miscellaneous manufacturing	n	n
Repair and maintenance	n	n

51-9081 Dental Laboratory Technicians 

Construct and repair full or partial dentures or dental appliances. Excludes "Dental Assistants" (31-9091).

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Moderate OJT</u>	
2020 Estimated Employment:	246
2030 Projected Employment:	282
Growth Rate, 2020-2030:	14.6%
Annual Average Openings:	38
2021 Median Hourly Wage:	\$22.91

**Employing Industries**

	2020 Share	2030 Share
Miscellaneous manufacturing	91.9%	91.8%
Ambulatory health care services	4.5%	4.6%
Self-employed workers	3.7%	3.6%

51-9082 Medical Appliance Technicians 

Construct, maintain, or repair medical supportive devices such as braces, orthotics and prosthetic devices, joints, arch supports, and other surgical and medical appliances.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Moderate OJT</u>	
2020 Estimated Employment:	61
2030 Projected Employment:	70
Growth Rate, 2020-2030:	14.8%
Annual Average Openings:	9
2021 Median Hourly Wage:	\$23.29

**Employing Industries**

	2020 Share	2030 Share
Miscellaneous manufacturing	41.0%	41.4%
Employment services	29.5%	28.6%
Wholesale trade	9.8%	10.0%
Self-employed workers	3.3%	2.9%
Ambulatory health care services	n	n
Hospitals	n	n

51-9083 Ophthalmic Laboratory Technicians 

Cut, grind, and polish eyeglasses, contact lenses, or other precision optical elements. Assemble and mount lenses into frames or process other optical elements. Includes precision lens polishers or grinders, centerer-edgers, and lens mounters. Excludes "Opticians, Dispensing" (29-2081).

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Moderate OJT</u>	
2020 Estimated Employment:	107
2030 Projected Employment:	120
Growth Rate, 2020-2030:	12.1%
Annual Average Openings:	15
2021 Median Hourly Wage:	\$28.83

**Employing Industries**

	2020 Share	2030 Share
Computer/electronic product manufacturing	34.6%	34.2%
Health/personal care stores	29.9%	30.8%
Miscellaneous manufacturing	13.1%	12.5%
Employment services	n	n
Machinery manufacturing	n	n
Self-employed workers	n	n



**51-9111 Packaging and Filling Machine Operators and Tenders**

Operate or tend machines to prepare industrial or consumer products for storage or shipment. Includes cannery workers who pack food products.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   none   Moderate OJT		Employment services		27.4%	27.5%
2020 Estimated Employment:	1,170	Food manufacturing		24.0%	23.3%
2030 Projected Employment:	1,288	Beverage/tobacco product manufacturing		15.3%	14.4%
Growth Rate, 2020-2030:	10.1%	Chemical manufacturing		10.8%	13.1%
Annual Average Openings:	145	Plastics/rubber products manufacturing		5.0%	4.5%
2021 Median Hourly Wage:	\$18.23	Wholesale trade		3.9%	3.7%

**51-9123 Painting, Coating, and Decorating Workers**

Paint, coat, or decorate articles, such as furniture, glass, plateware, pottery, jewelry, toys, books, or leather. Excludes "Artists and Related Workers" (27-1010), "Designers" (27-1020), "Photographic Process Workers and Processing Machine Operators" (51-9151), and "Etchers and Engravers" (51-9194).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
No formal education   none   Moderate OJT		Miscellaneous store retailers		35.6%	35.5%
2020 Estimated Employment:	73	Nonmetallic mineral product manufacturing		17.8%	17.1%
2030 Projected Employment:	76	Non-store retailers		11.0%	14.5%
Growth Rate, 2020-2030:	4.1%	Plastics/rubber products manufacturing		n	n
Annual Average Openings:	7	Printing/related support activities		n	n
2021 Median Hourly Wage:	\$18.55	Transportation equipment manufacturing		n	n

**51-9124 Coating, Painting, and Spraying Machine Setters, Operators, and Tenders**

Set up, operate, or tend spraying or rolling machines to coat or paint any of a variety of products, including glassware, cloth, ceramics, metal, plastic, paper, or wood, with lacquer, silver, copper, rubber, varnish, glaze, enamel, oil, or rust-proofing materials. Includes painters of transportation vehicles such as painters in auto body repair.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   none   Moderate OJT		Fabricated metal product manufacturing		21.3%	22.1%
2020 Estimated Employment:	494	Repair and maintenance		12.4%	13.0%
2030 Projected Employment:	530	Plastics/rubber products manufacturing		10.5%	9.8%
Growth Rate, 2020-2030:	7.3%	Machinery manufacturing		9.3%	9.3%
Annual Average Openings:	55	Furniture/related product manufacturing		7.5%	7.0%
2021 Median Hourly Wage:	\$18.55	Electrical equipment/appliance manufacturing		5.9%	5.9%

**51-9141 Semiconductor Processing Technicians**

Perform tasks to manufacture semiconductors: load material into furnace; saw ingots into segments; load segments into crystal growing chamber and monitor controls; locate ingot crystal axis using x-rays and saw into wafers; or clean, polish, and load wafers into furnaces, chemical baths, or equipment to form circuitry and change conductive properties.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   none   Moderate OJT		Chemical manufacturing		n	n
2020 Estimated Employment:	79	Computer/electronic product manufacturing		n	n
2030 Projected Employment:	84	Self-employed workers		n	n
Growth Rate, 2020-2030:	6.3%	Wholesale trade		n	n
Annual Average Openings:	9				
2021 Median Wage:	n				

**51-9151 Photographic Process Workers and Processing Machine Operators**

Perform work involved in developing and processing photographic images from film or digital media. May perform precision tasks such as editing photographic negatives and prints.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Short OJT	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Hourly Wage:	\$14.45

**Employing Industries**

	2020 Share	2030 Share
Business support services	n	n
Data processing/hosting/related services	n	n
Health/personal care stores	n	n
Other professional/scientific/technical services	n	n
Performing arts/spectator sports/related	n	n
Self-employed workers	n	n

**51-9161 Computer Numerically Controlled Tool Operators**

Operate computer-controlled tools, machines, or robots to machine or process parts, tools, or other work pieces made of metal, plastic, wood, stone, or other materials. May also set up and maintain equipment.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	2,858
2030 Projected Employment:	2,777
Growth Rate, 2020-2030:	-2.8%
Annual Average Openings:	296
2021 Median Hourly Wage:	\$23.09

**Employing Industries**

	2020 Share	2030 Share
Fabricated metal product manufacturing	49.6%	50.8%
Transportation equipment manufacturing	14.0%	13.1%
Machinery manufacturing	13.6%	13.3%
Computer/electronic product manufacturing	7.2%	7.2%
Primary metal manufacturing	4.3%	4.2%
Plastics/rubber products manufacturing	4.0%	3.7%

**51-9162 Computer Numerically Controlled Tool Programmers**

Develop programs to control machining or processing of materials by automatic machine tools, equipment, or systems. May also set up, operate, or maintain equipment.

**Entry-Level Education, Experience, & Training:**

Postsecondary   none   Moderate OJT	
2020 Estimated Employment:	280
2030 Projected Employment:	356
Growth Rate, 2020-2030:	27.1%
Annual Average Openings:	43
2021 Median Hourly Wage:	\$29.94

**Employing Industries**

	2020 Share	2030 Share
Fabricated metal product manufacturing	56.8%	58.4%
Machinery manufacturing	12.5%	12.4%
Plastics/rubber products manufacturing	6.1%	5.6%
Computer/electronic product manufacturing	6.1%	5.9%
Transportation equipment manufacturing	4.3%	3.9%
Scientific research/development services	4.3%	4.5%

**51-9191 Adhesive Bonding Machine Operators and Tenders**

Operate or tend bonding machines that use adhesives to join items for further processing or to form a completed product. Processes include joining veneer sheets into plywood; gluing paper; or joining rubber and rubberized fabric parts, plastic, simulated leather, or other materials. Excludes "Shoe Machine Operators and Tenders" (51-6042).

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Hourly Wage:	\$18.57

**Employing Industries**

	2020 Share	2030 Share
Electrical equipment/appliance manufacturing	n	n
Miscellaneous manufacturing	n	n
Paper manufacturing	n	n

**51-9192 Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders**

Operate or tend machines to wash or clean products, such as barrels or kegs, glass items, tin plate, food, pulp, coal, plastic, or rubber, to remove impurities.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	124
2030 Projected Employment:	129
Growth Rate, 2020-2030:	4%
Annual Average Openings:	13
2021 Median Hourly Wage:	\$17.75

**Employing Industries**

	2020 Share	2030 Share
Fabricated metal product manufacturing	44.4%	46.5%
Food manufacturing	16.9%	17.8%
Textile mills	9.7%	8.5%
Plastics/rubber products manufacturing	9.7%	9.3%
Computer/electronic product manufacturing	n	n
Primary metal manufacturing	n	n

**51-9193 Cooling and Freezing Equipment Operators and Tenders**

Operate or tend equipment such as cooling and freezing units, refrigerators, batch freezers, and freezing tunnels, to cool or freeze products, food, blood plasma, and chemicals.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Wage:	n

**Employing Industries**

	2020 Share	2030 Share
Beverage/tobacco product manufacturing	n	n
Miscellaneous manufacturing	n	n
Wholesale trade	n	n

**51-9194 Etchers and Engravers**

Engrave or etch metal, wood, rubber, or other materials. Includes such workers as etcher-circuit processors, pantograph engravers, and silk screen etchers. Photoengravers are included in "Prepress Technicians and Workers" (51-5111).

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Moderate OJT	
2020 Estimated Employment:	100
2030 Projected Employment:	103
Growth Rate, 2020-2030:	3%
Annual Average Openings:	12
2021 Median Hourly Wage:	\$18.31

**Employing Industries**

	2020 Share	2030 Share
Miscellaneous store retailers	47.0%	44.7%
Miscellaneous manufacturing	21.0%	21.4%
Nonmetallic mineral product manufacturing	13.0%	12.6%
Fabricated metal product manufacturing	8.0%	8.7%
Primary metal manufacturing	n	n
Self-employed workers	n	n

**51-9195 Molders, Shapers, and Casters, Except Metal and Plastic**

Mold, shape, form, cast, or carve products such as food products, figurines, tile, pipes, and candles consisting of clay, glass, plaster, concrete, stone, or combinations of materials.

**Entry-Level Education, Experience, & Training:**

HS Diploma   none   Long OJT	
2020 Estimated Employment:	121
2030 Projected Employment:	152
Growth Rate, 2020-2030:	25.6%
Annual Average Openings:	17
2021 Median Hourly Wage:	\$18.12

**Employing Industries**

	2020 Share	2030 Share
Nonmetallic mineral product manufacturing	85.1%	88.8%
Self-employed workers	9.1%	6.6%
Wood product manufacturing	3.3%	2.6%
Miscellaneous manufacturing	1.7%	1.3%

51-9196 Paper Goods Machine Setters, Operators, and Tenders 

Set up, operate, or tend paper goods machines that perform a variety of functions, such as converting, sawing, corrugating, banding, wrapping, boxing, stitching, forming, or sealing paper or paperboard sheets into products.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   none   Moderate OJT		Paper manufacturing		76.0%	71.7%
2020 Estimated Employment:	179	Plastics/rubber products manufacturing		11.2%	12.6%
2030 Projected Employment:	159	Advertising/related services		n	n
Growth Rate, 2020-2030:	-11.2%	Employment services		n	n
Annual Average Openings:	17	Machinery manufacturing		n	n
2021 Median Hourly Wage:	\$21.59	Printing/related support activities		n	n

51-9198 Helpers--Production Workers 

Help production workers by performing duties requiring less skill. Duties include supplying or holding materials or tools, and cleaning work area and equipment. Apprentice workers are classified in the appropriate production occupations (51-0000).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   none   Short OJT		Fabricated metal product manufacturing		16.2%	17.7%
2020 Estimated Employment:	1,132	Employment services		10.1%	10.9%
2030 Projected Employment:	1,035	Electrical equipment/appliance manufacturing		9.7%	10.3%
Growth Rate, 2020-2030:	-8.6%	Textile mills		9.5%	8.4%
Annual Average Openings:	143	Paper manufacturing		8.2%	6.8%
2021 Median Hourly Wage:	\$16.16	Primary metal manufacturing		7.2%	7.3%

51-9199 Production Workers, All Other 

All production workers not listed separately. Excludes "Packers and Packagers, Hand" (53-7064).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   none   Moderate OJT		Employment services		25.4%	26.2%
2020 Estimated Employment:	1,031	Electrical equipment/appliance manufacturing		12.4%	12.6%
2030 Projected Employment:	1,106	Plastics/rubber products manufacturing		11.4%	10.6%
Growth Rate, 2020-2030:	7.3%	Computer/electronic product manufacturing		11.0%	10.9%
Annual Average Openings:	124	Machinery manufacturing		6.4%	6.3%
2021 Median Hourly Wage:	\$17.68	Food manufacturing		5.6%	5.7%

53-1041 Aircraft Cargo Handling Supervisors 

Supervise and coordinate activities of ground crew in loading, unloading, securing, and staging aircraft cargo or baggage. Determine quantity and orientation of cargo and compute aircraft center of gravity. May act as a flight crew member to monitor and handle cargo in flight, and brief passengers on safety and emergency procedures. Includes loadmasters.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
HS Diploma   < 5 yrs   none		Air transportation		n	n
2020 Estimated Employment:	36	Couriers and messengers		n	n
2030 Projected Employment:	41	Self-employed workers		n	n
Growth Rate, 2020-2030:	13.9%				
Annual Average Openings:	4				
2021 Median Hourly Wage:	\$30.64				

**53-1047 First Line Supervisors of Transportation & Material Moving Workers, Ex. Aircraft Cargo Handling** 

This occupation includes 2018 SOC occupations 53-1042 First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand; 53-1043 First-Line Supervisors of Material-Moving Machine and Vehicle Operators; 53-1044 First-Line Supervisors of Passenger Attendants; and 53-1049 First-Line Supervisors of Transportation Workers, All Other; and the 2010 SOC occupations 53-1021 First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand; and 53-1031 First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   &lt; 5 yrs   none</u>		Couriers and messengers		13.0%	14.5%
2020 Estimated Employment:	2,266	Food/beverage stores		12.4%	11.4%
2030 Projected Employment:	2,412	Wholesale trade		11.9%	11.8%
Growth Rate, 2020-2030:	6.4%	Self-employed workers		10.1%	8.4%
Annual Average Openings:	262	Local government		4.4%	4.5%
2021 Median Hourly Wage:	\$24.01	Non-store retailers		4.3%	4.9%

**53-2011 Airline Pilots, Copilots, and Flight Engineers** 

Pilot and navigate the flight of fixed-wing aircraft, usually on scheduled air carrier routes, for the transport of passengers and cargo. Requires Federal Air Transport certificate and rating for specific aircraft type used. Includes regional, national, and international airline pilots and flight instructors of airline pilots.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>Bachelor's degree   &lt; 5 yrs   Moderate OJT</u>		Air transportation		n	n
2020 Estimated Employment:	n	Federal government		n	n
2030 Projected Employment:	n	Management of companies/enterprises		n	n
Growth Rate, 2020-2030:	n				
Annual Average Openings:	n				
2021 Median Annual Wage:	\$128,918				

**53-2012 Commercial Pilots** 

Pilot and navigate the flight of fixed-wing aircraft on nonscheduled air carrier routes, or helicopters. Requires Commercial Pilot certificate. Includes charter pilots, air ambulance, and air tour pilots. Excludes regional, national, and international airline pilots.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>		Self-employed workers		6.7%	4.9%
2020 Estimated Employment:	376	Air transportation		n	n
2030 Projected Employment:	432	Management of companies/enterprises		n	n
Growth Rate, 2020-2030:	14.9%	Office administrative services		n	n
Annual Average Openings:	49	Support activities for transportation		n	n
2021 Median Annual Wage:	\$78,062	Technical/trade schools		n	n

**53-2021 Air Traffic Controllers**

Control air traffic on and within vicinity of airport, and movement of air traffic between altitude sectors and control centers, according to established procedures and policies. Authorize, regulate, and control commercial airline flights according to government or company regulations to expedite and ensure flight safety.

**Entry-Level Education, Experience, & Training:**

<u>Associate's degree   none   Long OJT</u>	
2020 Estimated Employment:	456
2030 Projected Employment:	468
Growth Rate, 2020-2030:	2.6%
Annual Average Openings:	45
2021 Median Hourly Wage:	\$78.38

**Employing Industries**

	2020 Share	2030 Share
Federal government	94.1%	92.5%
Support activities for transportation	5.9%	7.5%

**53-2022 Airfield Operations Specialists**

Ensure the safe takeoff and landing of commercial and military aircraft. Duties include coordination between air-traffic control and maintenance personnel, dispatching, using airfield landing and navigational aids, implementing airfield safety procedures, monitoring and maintaining flight records, and applying knowledge of weather information.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Long OJT</u>	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Wage:	n

**Employing Industries**

	2020 Share	2030 Share
Air transportation	n	n
Computer/electronic product manufacturing	n	n
Federal government	n	n

**53-3011 Ambulance Drivers and Attendants, Except Emergency Medical Technicians**

Drive ambulance or assist ambulance driver in transporting sick, injured, or convalescent persons. Assist in lifting patients.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Moderate OJT</u>	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
2021 Median Hourly Wage:	\$17.25

**Employing Industries**

	2020 Share	2030 Share
Ambulatory health care services	n	n
Local government	n	n

**53-3031 Driver/Sales Workers**

Drive truck or other vehicle over established routes or in an established territory to sell or deliver goods, such as food products, including restaurant take-out items, or pick up or deliver items such as commercial laundry. May take orders, collect payment, or stock merchandise at point of delivery.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Short OJT</u>	
2020 Estimated Employment:	2,413
2030 Projected Employment:	2,927
Growth Rate, 2020-2030:	21.3%
Annual Average Openings:	341
2021 Median Hourly Wage:	\$13.64

**Employing Industries**

	2020 Share	2030 Share
Food services/drinking places	52.3%	56.1%
Wholesale trade	24.9%	21.9%
Personal and laundry services	6.8%	6.5%
Self-employed workers	6.8%	6.6%
Beverage/tobacco product manufacturing	2.8%	2.6%
Non-store retailers	1.7%	1.4%

**53-3032 Heavy and Tractor-Trailer Truck Drivers**

Drive a tractor-trailer combination or a truck with a capacity of at least 26,001 pounds Gross Vehicle Weight (GVW). May be required to unload truck. Requires commercial drivers' license. Includes tow truck drivers. Excludes "Refuse and Recyclable Material Collectors" (53-7081).

**Entry-Level Education, Experience, & Training:**

<u>Postsecondary   none   Short OJT</u>	
2020 Estimated Employment:	7,491
2030 Projected Employment:	7,979
Growth Rate, 2020-2030:	6.5%
Annual Average Openings:	890
2021 Median Hourly Wage:	\$23.65

**Employing Industries**

	2020 Share	2030 Share
Truck transportation	19.8%	20.0%
Wholesale trade	14.0%	13.8%
Waste management/remediation services	9.7%	10.1%
Non-store retailers	9.2%	8.5%
Self-employed workers	6.7%	6.2%
Specialty trade contractors	6.7%	6.7%

**53-3033 Light Truck Drivers**

Drive a light vehicle, such as a truck or van, with a capacity of less than 26,001 pounds Gross Vehicle Weight (GVW), primarily to pick up merchandise or packages from a distribution center and deliver. May load and unload vehicle. Excludes "Couriers and Messengers" (43-5021) and "Driver/Sales Workers" (53-3031).

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Short OJT</u>	
2020 Estimated Employment:	4,100
2030 Projected Employment:	4,574
Growth Rate, 2020-2030:	11.6%
Annual Average Openings:	519
2021 Median Hourly Wage:	\$17.68

**Employing Industries**

	2020 Share	2030 Share
Couriers and messengers	28.2%	31.5%
Wholesale trade	18.2%	17.2%
Motor vehicle/parts dealers	17.6%	17.1%
Self-employed workers	6.6%	5.8%
Building material/garden supply stores	3.4%	2.9%
Social Assistance	3.2%	3.4%

**53-3052 Bus Drivers, Transit and Intercity**

Drive bus or motor coach, including regular route operations, charters, and private carriage. May assist passengers with baggage. May collect fares or tickets.

**Entry-Level Education, Experience, & Training:**

<u>HS Diploma   none   Moderate OJT</u>	
2020 Estimated Employment:	215
2030 Projected Employment:	291
Growth Rate, 2020-2030:	35.3%
Annual Average Openings:	38
2021 Median Hourly Wage:	\$18.33

**Employing Industries**

	2020 Share	2030 Share
Transit/ground passenger transport	94.9%	95.9%
Rental/leasing services	4.2%	3.4%

**53-3058 Passenger Vehicle Drivers, Except Bus Drivers, Transit and Intercity**

This occupation includes the 2018 SOC occupations 53-3051 Bus Drivers, School; 53-3053 Shuttle Drivers and Chauffeurs; and 53-3054 Taxi Drivers; and the 2010 SOC occupations 53-3022 Bus Drivers, School or Special Client; and 53-3041 Taxi Drivers and Chauffeurs.

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Short OJT</u>	
2020 Estimated Employment:	3,174
2030 Projected Employment:	4,175
Growth Rate, 2020-2030:	31.5%
Annual Average Openings:	525
2021 Median Wage:	n/a

**Employing Industries**

	2020 Share	2030 Share
Transit/ground passenger transport	46.7%	49.5%
Self-employed workers	16.5%	19.3%
Motor vehicle/parts dealers	12.5%	10.6%
Elementary/secondary schools (public/private)	8.1%	6.3%
Ambulatory health care services	3.6%	3.2%
Local government	3.5%	2.9%

**53-3099 Motor Vehicle Operators, All Other** 

All motor vehicle operators not listed separately.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>No formal education   none   Short OJT</u>		Motor vehicle/parts dealers		25.3%	24.2%
2020 Estimated Employment:	162	Amusements/gambling/recreation industries		13.6%	16.1%
2030 Projected Employment:	186	Real estate		n	n
Growth Rate, 2020-2030:	14.8%	Scientific research/development services		n	n
Annual Average Openings:	30	Self-employed workers		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$11.54</u>	Support activities for transportation		n	n

**53-4011 Locomotive Engineers** 

Drive electric, diesel-electric, steam, or gas-turbine-electric locomotives to transport passengers or freight. Interpret train orders, electronic or manual signals, and railroad rules and regulations. Excludes “Engineers” (17-2011 through 17-2199).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   &lt; 5 yrs   Moderate OJT</u>		Rail transportation		n	n
2020 Estimated Employment:	20	Scenic/sightseeing transportation		n	n
2030 Projected Employment:	22				
Growth Rate, 2020-2030:	10%				
Annual Average Openings:	1				
<u>2021 Median Wage:</u>	<u>n</u>				

**53-4022 Railroad Brake, Signal, and Switch Operators and Locomotive Firers** 

Operate or monitor railroad track switches or locomotive instruments. May couple or uncouple rolling stock to make up or break up trains. Watch for and relay traffic signals. May inspect couplings, air hoses, journal boxes, and hand brakes. May watch for dragging equipment or obstacles on rights-of-way.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>		Rail transportation		n	n
2020 Estimated Employment:	n				
2030 Projected Employment:	n				
Growth Rate, 2020-2030:	n				
Annual Average Openings:	n				
<u>2021 Median Wage:</u>	<u>n</u>				

**53-4031 Railroad Conductors and Yardmasters** 

Coordinate activities of switch-engine crew in railroad yard, industrial plant, or similar location. Conductors coordinate activities of crew on passenger or freight trains. Yardmasters review train schedules and switching orders and oversee workers engaged in railroad traffic operations, such as makeup or breakup of trains and yard switching.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>		Rail transportation		n	n
2020 Estimated Employment:	n	Scenic/sightseeing transportation		n	n
2030 Projected Employment:	n				
Growth Rate, 2020-2030:	n				
Annual Average Openings:	n				
<u>2021 Median Wage:</u>	<u>n</u>				



**53-5011 Sailors and Marine Oilers** 

Stand watch for vessel obstructions, measure water depth, or use emergency equipment as directed by captain. Break out, rig, and store cargo-handling or running gear, or stationary rigging. Maintain painted surfaces and equipment. Must hold government-issued certification; or tankerman certification aboard liquid-carrying vessels. Includes able seamen and ordinary seamen.

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
<u>No formal education   none   Moderate OJT</u>	Heavy/civil engineering construction	n	n
2020 Estimated Employment: n	Scenic/sightseeing transportation	n	n
2030 Projected Employment: n	Support activities for transportation	n	n
Growth Rate, 2020-2030: n			
Annual Average Openings: n			
<u>2021 Median Wage: n</u>			

**53-5021 Captains, Mates, and Pilots of Water Vessels** 

Command or supervise operations of ships and water vessels, such as tugboats and ferryboats. Required to hold license issued by U.S. Coast Guard. Excludes "Motorboat Operators" (53-5022).

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
<u>Postsecondary   &lt; 5 yrs   none</u>	Heavy/civil engineering construction	n	n
2020 Estimated Employment: n	Other schools/instruction	n	n
2030 Projected Employment: n	Scenic/sightseeing transportation	n	n
Growth Rate, 2020-2030: n	Support activities for transportation	n	n
Annual Average Openings: n	Water transportation	n	n
<u>2021 Median Hourly Wage: \$33.22</u>			

**53-5031 Ship Engineers** 

Supervise and coordinate activities of crew engaged in operating and maintaining engines, boilers, deck machinery, and electrical, sanitary, and refrigeration equipment aboard ship. Excludes "Engineers" (17-2000).

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
<u>Postsecondary   &lt; 5 yrs   none</u>	Federal government	n	n
2020 Estimated Employment: n	Heavy/civil engineering construction	n	n
2030 Projected Employment: n	Scenic/sightseeing transportation	n	n
Growth Rate, 2020-2030: n	Support activities for transportation	n	n
Annual Average Openings: n			
<u>2021 Median Hourly Wage: \$44.47</u>			

**53-6011 Bridge and Lock Tenders** 

Operate and tend bridges, canal locks, and lighthouses to permit marine passage on inland waterways, near shores, and at danger points in waterway passages. May supervise such operations. Includes drawbridge operators, lock operators, and slip bridge operators.

<b>Entry-Level Education, Experience, &amp; Training:</b>	<b>Employing Industries</b>	<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Short OJT</u>	State government	n	n
2020 Estimated Employment: n			
2030 Projected Employment: n			
Growth Rate, 2020-2030: n			
Annual Average Openings: n			

53-6021 Parking Attendants 

Park vehicles or issue tickets for customers in a parking lot or garage. May park or tend vehicles in environments such as a car dealership or rental car facility. May collect fee.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>No formal education   none   Short OJT</u>		Motor vehicle/parts dealers		40.3%	38.0%
2020 Estimated Employment:	216	Transit/ground passenger transport		17.6%	21.2%
2030 Projected Employment:	255	Personal and laundry services		7.9%	7.5%
Growth Rate, 2020-2030:	18.1%	Local government		7.9%	7.1%
Annual Average Openings:	39	Food/beverage stores		6.9%	5.9%
<u>2021 Median Hourly Wage:</u>	<u>\$14.52</u>	Real estate		6.9%	6.3%

53-6031 Automotive and Watercraft Service Attendants 

Service automobiles, buses, trucks, boats, and other automotive or marine vehicles with fuel, lubricants, and accessories. Collect payment for services and supplies. May lubricate vehicle, change motor oil, refill antifreeze, or replace lights or other accessories, such as windshield wiper blades or fan belts. May repair or replace tires.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>No formal education   none   Short OJT</u>		Repair and maintenance		50.9%	52.4%
2020 Estimated Employment:	527	Motor vehicle/parts dealers		32.3%	32.5%
2030 Projected Employment:	582	General merchandise stores		9.3%	7.9%
Growth Rate, 2020-2030:	10.4%	Gasoline stations		2.9%	2.4%
Annual Average Openings:	81	Non-store retailers		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$14.52</u>	Support activities for transportation		n	n

53-6041 Traffic Technicians 

Conduct field studies to determine traffic volume, speed, effectiveness of signals, adequacy of lighting, and other factors influencing traffic conditions, under direction of traffic engineer.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>		Local government		n	n
2020 Estimated Employment:	n	State government		n	n
2030 Projected Employment:	n				
Growth Rate, 2020-2030:	n				
Annual Average Openings:	n				
<u>2021 Median Wage:</u>	<u>n</u>				

53-6051 Transportation Inspectors 

Inspect equipment or goods in connection with the safe transport of cargo or people. Includes rail transportation inspectors, such as freight inspectors, rail inspectors, and other inspectors of transportation vehicles not elsewhere classified. Excludes "Transportation Security Screeners" (33-9093).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>		Federal government		45.5%	46.9%
2020 Estimated Employment:	33	State government		33.3%	34.4%
2030 Projected Employment:	32	Air transportation		n	n
Growth Rate, 2020-2030:	-3%	Self-employed workers		n	n
Annual Average Openings:	3	Truck transportation		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$48.39</u>	Wholesale trade		n	n

**53-6061 Passenger Attendants**

Provide services to ensure the safety of passengers aboard ships, buses, trains, or within the station or terminal. Perform duties such as explaining the use of safety equipment, serving meals or beverages, or answering questions related to travel. Excludes “Baggage Porters and Bellhops” (39-6011) and “Flight Attendants” (53-2031).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Short OJT</u>		Other schools/instruction		n	n
2020 Estimated Employment:	n	Scenic/sightseeing transportation		n	n
2030 Projected Employment:	n	Support activities for transportation		n	n
Growth Rate, 2020-2030:	n				
Annual Average Openings:	n				
<u>2021 Median Wage:</u>	<u>n</u>				

**53-6098 Aircraft Service Attendants and Transportation Workers, All Other**

This occupation includes the 2018 SOC occupations 53-6032 Aircraft Service Attendants and 53-6099 Transportation Workers, All Other and the 2010 SOC occupation 53-6099 Transportation Workers, All Other.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Short OJT</u>		Support activities for transportation		97.1%	97.8%
2020 Estimated Employment:	70	Federal government		1.4%	1.1%
2030 Projected Employment:	89	State government		1.4%	1.1%
Growth Rate, 2020-2030:	27.1%				
Annual Average Openings:	13				
<u>2021 Median Wage:</u>	<u>n/a</u>				

**53-7011 Conveyor Operators and Tenders**

Control or tend conveyors or conveyor systems that move materials or products to and from stockpiles, processing stations, departments, or vehicles. May control speed and routing of materials or products.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>No formal education   none   Short OJT</u>		Couriers and messengers		70.2%	73.7%
2020 Estimated Employment:	131	Self-employed workers		11.5%	10.8%
2030 Projected Employment:	148	Utilities		5.3%	4.7%
Growth Rate, 2020-2030:	13%	Printing/related support activities		5.3%	3.4%
Annual Average Openings:	18	Mining (except oil/gas)		3.8%	3.4%
<u>2021 Median Hourly Wage:</u>	<u>\$16.51</u>	Crop production		3.1%	3.4%

**53-7021 Crane and Tower Operators**

Operate mechanical boom and cable or tower and cable equipment to lift and move materials, machines, or products in many directions.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   &lt; 5 yrs   Moderate OJT</u>		Specialty trade contractors		51.7%	53.3%
2020 Estimated Employment:	145	Wood product manufacturing		12.4%	10.7%
2030 Projected Employment:	150	Miscellaneous store retailers		6.9%	6.0%
Growth Rate, 2020-2030:	3.4%	Services to building/dwellings		6.9%	7.3%
Annual Average Openings:	15	Heavy/civil engineering construction		n	n
<u>2021 Median Hourly Wage:</u>	<u>\$30.61</u>	Rental/leasing services		n	n

**53-7051 Industrial Truck and Tractor Operators**

Operate industrial trucks or tractors equipped to move materials around a warehouse, storage yard, factory, construction site, or similar location. Excludes "Logging Equipment Operators" (45-4022).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
No formal education   none   Short OJT		Warehousing and storage		40.7%	41.4%
2020 Estimated Employment:	1,444	Wholesale trade		17.3%	17.1%
2030 Projected Employment:	1,548	Truck transportation		6.0%	6.0%
Growth Rate, 2020-2030:	7.2%	Building material/garden supply stores		4.5%	4.0%
Annual Average Openings:	170	Electrical equipment/appliance manufacturing		3.8%	3.9%
2021 Median Hourly Wage:	\$22.38	Wood product manufacturing		3.1%	2.5%

**53-7061 Cleaners of Vehicles and Equipment**

Wash or otherwise clean vehicles, machinery, and other equipment. Use such materials as water, cleaning agents, brushes, cloths, and hoses. Excludes "Janitors and Cleaners, Except Maids and Housekeeping Cleaners" (37-2011).

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
No formal education   none   Short OJT		Repair and maintenance		36.7%	37.0%
2020 Estimated Employment:	1,017	Motor vehicle/parts dealers		34.5%	34.1%
2030 Projected Employment:	1,150	Office administrative services		7.1%	7.5%
Growth Rate, 2020-2030:	13.1%	Rental/leasing services		5.3%	5.3%
Annual Average Openings:	162	Self-employed workers		4.6%	3.2%
2021 Median Hourly Wage:	\$15.01	Specialty trade contractors		2.3%	2.1%

**53-7062 Laborers and Freight, Stock, and Material Movers, Hand**

Manually move freight, stock, luggage, or other materials, or perform other general labor. Includes all manual laborers not elsewhere classified. Excludes "Construction Laborers" (47-2061) and "Helpers, Construction Trades" (47-3011 through 47-3019). Excludes "Material Moving Workers" (53-7011 through 53-7199) who use power equipment.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
No formal education   none   Short OJT		Couriers and messengers		29.9%	32.0%
2020 Estimated Employment:	5,863	Truck transportation		10.9%	10.6%
2030 Projected Employment:	6,464	Wholesale trade		9.2%	8.9%
Growth Rate, 2020-2030:	10.3%	Building material/garden supply stores		6.5%	5.7%
Annual Average Openings:	866	Employment services		5.3%	5.3%
2021 Median Hourly Wage:	\$15.61	Warehousing and storage		2.4%	2.4%

**53-7063 Machine Feeders and Offbearers**

Feed materials into or remove materials from machines or equipment that is automatic or tended by other workers.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
No formal education   none   Short OJT		Fabricated metal product manufacturing		24.7%	25.9%
2020 Estimated Employment:	546	Warehousing and storage		17.6%	19.2%
2030 Projected Employment:	572	Electrical equipment/appliance manufacturing		9.5%	10.1%
Growth Rate, 2020-2030:	4.8%	Printing/related support activities		8.6%	6.1%
Annual Average Openings:	76	Employment services		8.1%	8.6%
2021 Median Hourly Wage:	\$14.97	Primary metal manufacturing		5.3%	5.2%

**53-7064 Packers and Packagers, Hand**



Pack or package by hand a wide variety of products and materials.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>No formal education   none   Short OJT</u>		Food/beverage stores		69.0%	60.0%
2020 Estimated Employment:	4,259	Employment services		6.0%	7.8%
2030 Projected Employment:	3,597	Food manufacturing		4.0%	5.1%
Growth Rate, 2020-2030:	-15.5%	Wholesale trade		3.7%	4.7%
Annual Average Openings:	476	Non-store retailers		2.4%	3.9%
<u>2021 Median Hourly Wage:</u>	<u>\$11.46</u>	Nonmetallic mineral product manufacturing		2.1%	2.5%

**53-7065 Stockers and Order Fillers**



Receive, store, and issue merchandise, materials, equipment, and other items from stockroom, warehouse, or storage yard to fill shelves, racks, or customer orders. May operate power equipment to fill orders. May mark prices on merchandise and set up sales displays.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Short OJT</u>		Food/beverage stores		39.9%	41.9%
2020 Estimated Employment:	14,153	General merchandise stores		14.2%	13.7%
2030 Projected Employment:	15,133	Wholesale trade		13.0%	12.4%
Growth Rate, 2020-2030:	6.9%	Building material/garden supply stores		5.2%	5.0%
Annual Average Openings:	2,360	Warehousing and storage		5.1%	5.1%
<u>2021 Median Hourly Wage:</u>	<u>\$14.51</u>	Non-store retailers		3.4%	3.5%

**53-7071 Gas Compressor and Gas Pumping Station Operators**



Operate steam-, gas-, electric motor-, or internal combustion-engine driven compressors. Transmit, compress, or recover gases, such as butane, nitrogen, hydrogen, and natural gas.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>HS Diploma   none   Moderate OJT</u>		Local government		n	n
2020 Estimated Employment:	n	Pipeline transportation		n	n
2030 Projected Employment:	n	Self-employed workers		n	n
Growth Rate, 2020-2030:	n	Wholesale trade		n	n
Annual Average Openings:	n				
<u>2021 Median Wage:</u>	<u>n</u>				

**53-7081 Refuse and Recyclable Material Collectors**



Collect and dump refuse or recyclable materials from containers into truck. May drive truck.

<b>Entry-Level Education, Experience, &amp; Training:</b>		<b>Employing Industries</b>		<b>2020 Share</b>	<b>2030 Share</b>
<u>No formal education   none   Short OJT</u>		Local government		65.3%	65.2%
2020 Estimated Employment:	749	Waste management/remediation services		13.0%	13.3%
2030 Projected Employment:	815	Self-employed workers		11.8%	11.7%
Growth Rate, 2020-2030:	8.8%	Employment services		7.7%	7.7%
Annual Average Openings:	110	Hospitals		1.6%	1.6%
<u>2021 Median Hourly Wage:</u>	<u>\$17.57</u>				

**53-7121 Tank Car, Truck, and Ship Loaders**



Load and unload chemicals and bulk solids, such as coal, sand, and grain, into or from tank cars, trucks, or ships, using material moving equipment. May perform a variety of other tasks relating to shipment of products. May gauge or sample shipping tanks and test them for leaks.

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Short OJT</u>	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
<u>2021 Median Wage:</u>	n/a

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Animal production/aquaculture	n	n
Support activities for transportation	n	n

**53-7199 Material Moving Workers, All Other**



All material moving workers not listed separately.

**Entry-Level Education, Experience, & Training:**

<u>No formal education   none   Short OJT</u>	
2020 Estimated Employment:	n
2030 Projected Employment:	n
Growth Rate, 2020-2030:	n
Annual Average Openings:	n
<u>2021 Median Wage:</u>	n

**Employing Industries**

	<b>2020 Share</b>	<b>2030 Share</b>
Animal production/aquaculture	n	n
Crop production	n	n

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