



DELAWARE

2028

OCCUPATION & INDUSTRY PROJECTIONS



Office of Occupational & Labor Market Information



Delaware Department of Labor
Cerron Cade, Secretary

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DELAWARE 2028

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Acknowledgements

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Introduction

Every two years, the federal Bureau of Labor Statistics (BLS) produces industry and occupation forecasts for a period ten years into the future and the states are asked to do the same for their respective economies. This publication presents Delaware's efforts for the period 2018 to 2028. It supersedes the last such set of projections, which were generated for the 2016-2026 period and were published in July 2018.

Delaware is projected to have 24,990 more jobs in 2028 than in 2018, for an average annual growth rate of 0.5 percent. **Health Care and Social Assistance**, already the state's largest employer by a wide margin, is again expected to show the most growth, accounting for one-half of the total new jobs projected.

Job openings occur when the number of jobs at employers within the state are increasing (growth), or when workers currently in those jobs either find work in another field (transfers) or exit the labor force altogether (exits). Transfers and exits are also called separations. Total job openings are the summation of openings due to growth plus openings due to separations. Details on the methodology can be found here: <https://www.bls.gov/emp/documentation/separations.htm>

COVID-19

Delaware's long-term projections were completed during the COVID-19 pandemic. The long-term impact of the pandemic is unknown at the time of writing this report and is not incorporated into the projections. The long-term projections are intended to capture changes to the structure of the economy, and it is too early to determine how the pandemic will impact those structural changes.



Occupation Projections by Occupational Group

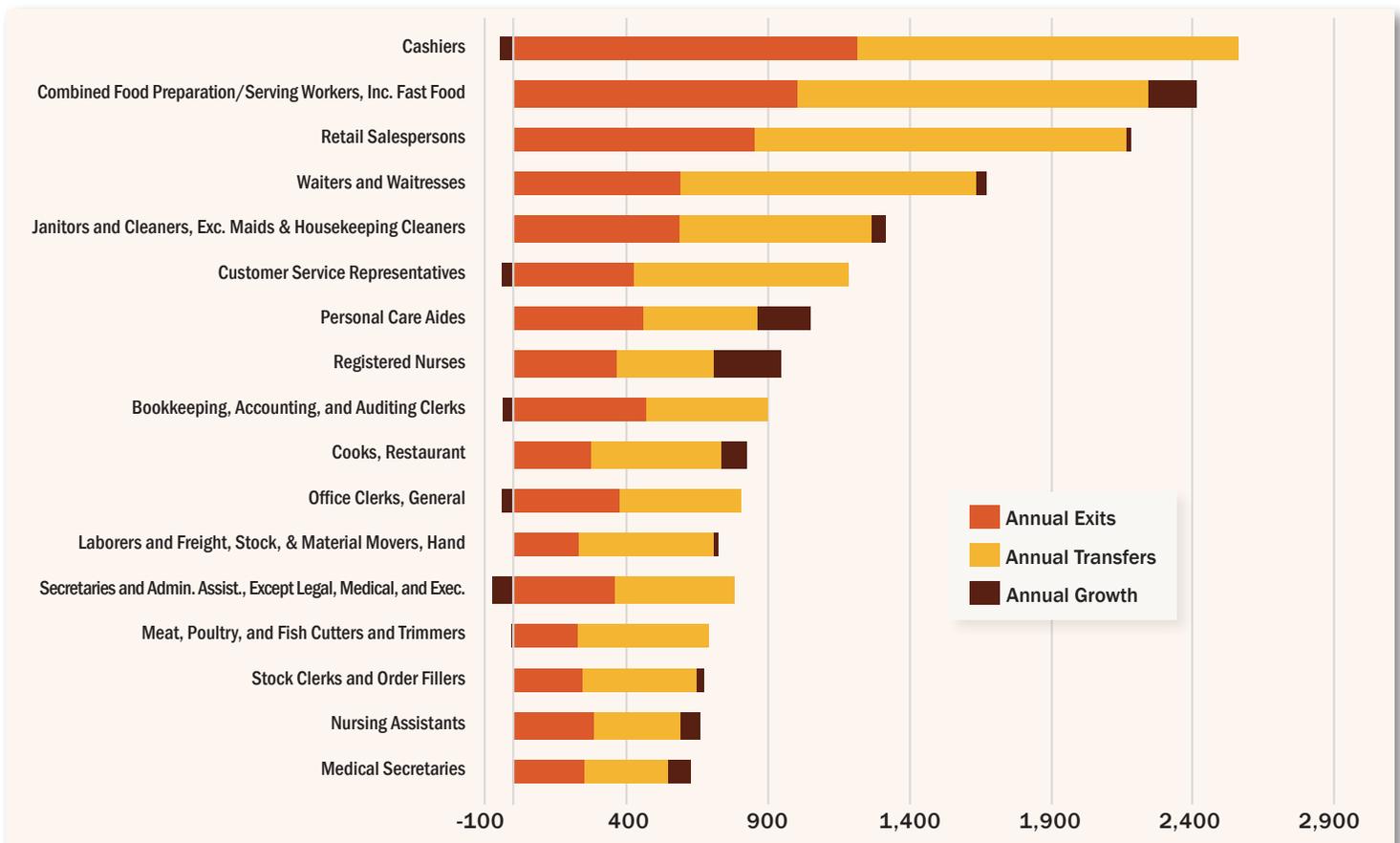
In this section, we present job projections and associated data for 439 specific occupations in Delaware, listed by major occupational group. The data elements provided for each occupation are: the Standard Occupational Classification (SOC) code, an estimate of the total number of filled jobs in the state in 2018, the projection of total filled jobs in 2028, the skill category, wage category, job availability, and usual education, work experience, and training requirements. In the following section we present these same occupations arranged by the 16 career clusters used by state educators. There you will find the forecasted annual growth rate, annual openings due to growth, annual exits, annual transfers, and total annual openings, as well as the 2018 estimated average annual wage for each occupation.

Estimates of past employment levels and projections of future employment levels do not refer to the demand

for workers, nor to the supply of workers. They refer to the equilibrium point where the supply and demand for labor are equal, that is, filled jobs. Labor demand and labor supply each have many possible employment levels, depending on the wage level. The wage level adjusts until the supply and demand for any given occupation are the same - that point is the employment estimate or projection for that occupation. Any forecast a decade into the future that predicts shortages or surpluses ignores this fact and is not well grounded in economic theory.

For ease of comparison, this first section presents occupational wages by wage categories. To create the categories, we divided the 439 occupations into quintiles. There are 88 occupations in each category except for *High*, which has 87 occupations. These categories are based on the 2018 average annual wage for each occupation. Of course, it should be recognized that some people working

Occupations With the Most Annual Openings, 2018–2028



in each occupation were paid less than the average, and some were paid more than the average, and that those just entering an occupation should expect to be paid less than this amount. More detailed wage distributions for most of these occupations, including estimates for entry- and experienced level wages, can be obtained by contacting our office.

The lowest paying 88 occupations (*Low*) paid below \$33,400 per year. The next lowest-paying 88 occupations, those in the *Below Average* category (-Avg), had average wages between \$33,401 and \$43,100 per year. The middle category, *Average* (Avg) paid from \$43,101 to \$57,800. The second highest-paying category, *Above Average* (+Avg), had average wages from \$57,801 to \$78,500, while the 87 highest-paying occupations (*High*) had average annual wages exceeding \$78,500.

Wage Categories

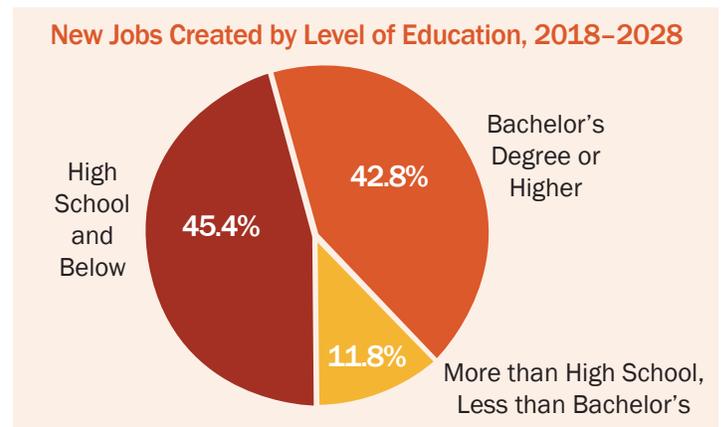
Wage Category	Abbreviation	2018 Average Annual Wage
Low	Low	Below \$33,400
Below Average	-Avg	\$33,401 to \$43,100
Average	Avg	\$43,101 to \$57,800
Above Average	+Avg	\$57,801 to \$78,500
High	High	Above \$78,500

The placement of occupations into job availability categories is based on the expected total annual openings. There are four categories of job availability: *Poor*, with fewer than 10 annual total openings projected; *Fair*, with from 10 to 39 annual total openings projected; *Good*, with from 40 to 99 such openings; and *Excellent* (Excl), with 100 or more total annual openings projected. There are 113 occupations with *Excellent* job availability, another 103 in the *Good* category, 136 with *Fair* job availability prospects, and 87 in the *Poor* category.

Job Availability Categories

Category	Annual Total Openings	Number of Occupations in each Category
Poor	<10	87
Fair	10 to 39	136
Good	40 to 99	103
Excellent (Excl)	100 or more	113

The rest of the data refer to education, experience, and training requirements. There are seven levels of education, which are intended to describe the typical education level of someone entering the occupation. The education categories range from no formal educational credential (NFE), high school diploma or equivalent (HS), postsecondary vocational training (VocEd), associate's degree (Assoc), bachelor's degree (Bach), and master's degree (Mast), through doctoral or professional degree (PhD/prof). Some occupations typically require experience working in a related field. The work experience measure captures this as one of three possible values: none, less than five years (<5), and five years or more (5+). The on-the-job training field has six possible measures for the typical amount of training required to be considered competent in the occupation. These range from none, short-term on-the-job training of one month or less (SOJT), moderate-term on-the-job training of from one month to one year (MOJT), long-term on-the-job training of over one year (LOJT), and apprenticeship (App), through internship or residency (Int). Those interested in further details on the education, experience, and training requirements should go to: <https://www.bls.gov/emp/documentation/education/tech.htm>



The skill category places each occupation into the high skill (H), middle skill (M), or low skill (L) category based on a combination of education, work experience, training, and formal certification. We worked closely with the Delaware Department of Education's Career and Technical Education office to develop the categories, which are illustrated in the table on the next page.

Delaware Skills Categories

Education	Work Experience (years)			Training					Certification	
	None	Less than 5 yrs	More than 5 yrs	SOJT (<1 mo.)	MOJT (1-12 mo.)	LOJT (1 yr+)	Apprenticeship	Internship/Residency	No	Yes
Ph.D./Professional Degree	H	H	H	H	H	H	H	H	H	H
Master's	H	H	H	H	H	H	H	H	H	H
Bachelor's	H	H	H	H	H	H	H	H	H	H
Associate's	M	M	H	M	M	M	M	H	M	M
Post-Secondary Certificate/Vocational	M	M	M	M	M	M	M	M	M	M
High School or Equivalent	L	M	M	L	M	M	M	M	L	M
No Formal Education Credential	L	L	L	L	L	M	M	M	L	M

H = High Skill M = Middle Skill L = Low Skill

Projected Openings and Growth by Education Level, 2018–2028

Education	Total Openings 2018–2028	Percent of Total Openings	New Jobs	Annual Percent Growth	2019 Unemployment Rate
Ph.D./Professional	5,412	1.0%	5,412	0.9%	2.6%*
Master's	8,702	1.6%	1,077	1.2%	2.6%*
Bachelor's	90,193	16.7%	7,958	0.8%	2.6%*
Associate's	11,413	2.1%	923	0.7%	4.2%
Vocational Education	33,040	6.1%	3,076	1.0%	Not Available
High School Graduate	199,572	36.8%	9,123	0.3%	4.3%
No Formal Education	193,335	35.7%	6,231	0.5%	4.0%

*Unemployment rate is for Bachelor's degree or higher

Wages by Level of Education, 2018

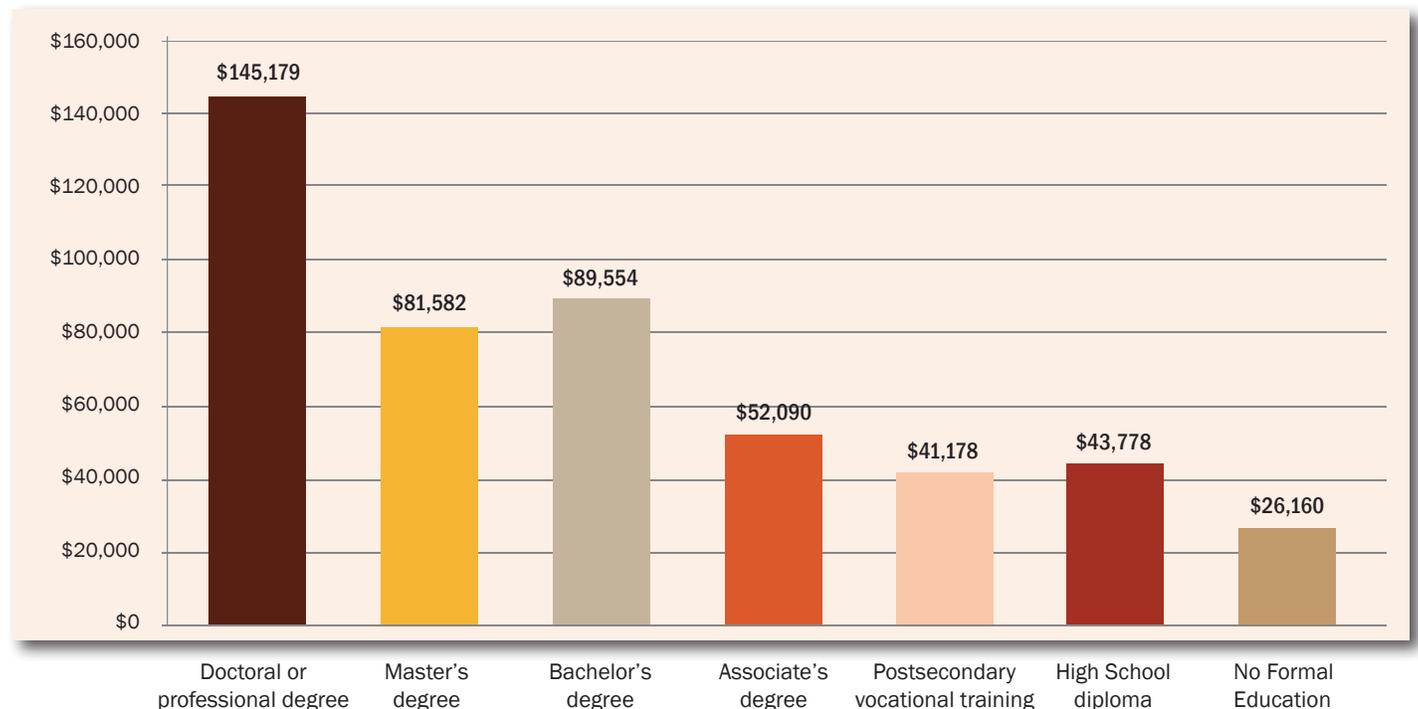


Table 1: Occupation Projections by Occupational Group

SOC Code	Title of Occupation	2018 Est. Empl.	2028 Proj. Empl.	Wage Cat.	Job Avail.	Educ.	Work Exp.	Job Training	Skill
11-0000 Management Occupations									
11-1021	General and Operations Managers	4,197	4,438	High	Excl	Bach	5+	None	H
11-2021	Marketing Managers	1,042	1,107	High	Excl	Bach	5+	None	H
11-2022	Sales Managers	979	1,016	High	Good	Bach	<5	None	H
11-3011	Administrative Services Managers	927	983	High	Good	Bach	<5	None	H
11-3021	Computer and Information Systems Managers	1,270	1,347	High	Excl	Bach	5+	None	H
11-3031	Financial Managers	2,000	2,304	High	Excl	Bach	5+	None	H
11-3051	Industrial Production Managers	353	358	High	Fair	Bach	5+	None	H
11-3071	Transportation, Storage, and Distribution Managers	378	399	High	Fair	HS	5+	None	M
11-3121	Human Resources Managers	407	434	High	Fair	Bach	5+	None	H
11-3131	Training and Development Managers	72	75	High	Poor	Bach	5+	None	H
11-9021	Construction Managers	848	924	High	Good	Bach	None	MOJT	H
11-9031	Education Administrators, Preschool and Childcare Center/Program	268	281	+Avg	Fair	Bach	<5	None	H
11-9032	Education Administrators, Elementary and Secondary School	1,013	1,033	High	Good	Mast	5+	None	H
11-9033	Education Administrators, Postsecondary	335	351	High	Fair	Mast	<5	None	H
11-9039	Education Administrators, All Other	60	67	High	Poor	Bach	<5	None	H
11-9041	Architectural and Engineering Managers	361	367	High	Fair	Bach	5+	None	H
11-9051	Food Service Managers	751	822	+Avg	Good	HS	<5	None	M
11-9061	Funeral Service Managers	60	66	High	Poor	Assoc	<5	None	M
11-9081	Lodging Managers	76	82	+Avg	Poor	HS	<5	None	M
11-9111	Medical and Health Services Managers	1,080	1,284	High	Excl	Bach	<5	None	H
11-9131	Postmasters and Mail Superintendents	38	34	High	Poor	HS	<5	MOJT	M
11-9141	Property, Real Estate, and Community Association Managers	1,046	1,113	+Avg	Good	HS	<5	None	M
11-9151	Social and Community Service Managers	911	1,003	+Avg	Good	Bach	<5	None	H
11-9199	Managers, All Other	1,698	1,815	High	Excl	Bach	<5	None	H
13-0000 Business and Financial Operations Occupations									
13-1031	Claims Adjusters, Examiners, and Investigators	466	409	+Avg	Fair	HS	None	LOJT	M
13-1041	Compliance Officers	1,184	1,242	+Avg	Excl	Bach	None	MOJT	H
13-1051	Cost Estimators	982	1,073	+Avg	Excl	Bach	None	MOJT	H
13-1071	Human Resources Specialists	2,280	2,368	+Avg	Excl	Bach	None	None	H
13-1111	Management Analysts	2,981	3,279	High	Excl	Bach	<5	None	H
13-1121	Meeting, Convention, and Event Planners	338	360	Avg	Good	Bach	None	None	H
13-1131	Fundraisers	551	596	+Avg	Good	Bach	None	None	H

Occupation Projections by Occupational Group

SOC Code	Title of Occupation	2018 Est. Empl.	2028 Proj. Empl.	Wage Cat.	Job Avail.	Educ.	Work Exp.	Job Training	Skill
13-1141	Compensation, Benefits, and Job Analysis Specialists	228	238	+Avg	Fair	Bach	<5	None	H
13-1151	Training and Development Specialists	1,004	1,085	+Avg	Excl	Bach	<5	None	H
13-1161	Market Research Analysts and Marketing Specialists	2,122	2,481	High	Excl	Bach	None	None	H
13-1199	Business Operations Specialists, All Other	1,506	1,561	High	Excl	Bach	None	None	H
13-2011	Accountants and Auditors	5,988	6,288	+Avg	Excl	Bach	None	None	H
13-2031	Budget Analysts	138	144	+Avg	Fair	Bach	None	None	H
13-2041	Credit Analysts	1,259	1,333	+Avg	Excl	Bach	None	None	H
13-2051	Financial Analysts	3,552	3,755	High	Excl	Bach	None	None	H
13-2052	Personal Financial Advisors	516	555	High	Good	Bach	None	LOJT	H
13-2053	Insurance Underwriters	145	124	+Avg	Poor	Bach	None	MOJT	H
13-2061	Financial Examiners	655	716	High	Good	Bach	None	LOJT	H
13-2071	Credit Counselors	99	102	Avg	Poor	Bach	None	MOJT	H
13-2072	Loan Officers	804	869	+Avg	Good	Bach	None	MOJT	H
13-2082	Tax Preparers	151	148	+Avg	Fair	HS	None	MOJT	M
13-2099	Financial Specialists, All Other	745	793	High	Good	Bach	None	MOJT	H
15-0000 Computer and Mathematical Occupations									
15-1121	Computer Systems Analysts	2,594	2,643	High	Excl	Bach	None	None	H
15-1122	Information Security Analysts	589	739	High	Good	Bach	<5	None	H
15-1131	Computer Programmers	1,169	1,040	High	Good	Bach	None	None	H
15-1132	Software Developers, Applications	4,910	5,845	High	Excl	Bach	None	None	H
15-1134	Web Developers	457	497	+Avg	Good	Assoc	None	None	M
15-1141	Database Administrators	884	946	High	Good	Bach	None	None	H
15-1142	Network and Computer Systems Administrators	1,404	1,424	High	Excl	Bach	None	None	H
15-1143	Computer Network Architects	633	637	High	Good	Bach	5+	None	H
15-1151	Computer User Support Specialists	1,926	2,019	+Avg	Excl	HS	None	None	L
15-1152	Computer Network Support Specialists	459	484	+Avg	Good	Assoc	None	None	M
15-2031	Operations Research Analysts	975	1,192	High	Good	Bach	None	None	H
17-0000 Architecture and Engineering Occupations									
17-1011	Architects, Except Landscape and Naval	159	162	High	Fair	Bach	None	Int	H
17-1022	Surveyors	126	123	+Avg	Poor	Bach	None	Int	H
17-2041	Chemical Engineers	569	601	High	Fair	Bach	None	None	H
17-2051	Civil Engineers	882	888	High	Good	Bach	None	None	H
17-2071	Electrical Engineers	616	641	High	Good	Bach	None	None	H
17-2081	Environmental Engineers	145	149	High	Fair	Bach	None	None	H
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	108	111	High	Poor	Bach	None	None	H
17-2112	Industrial Engineers	457	482	High	Fair	Bach	None	None	H
17-2141	Mechanical Engineers	665	680	High	Good	Bach	None	None	H

Occupation Projections by Occupational Group

SOC Code	Title of Occupation	2018 Est. Empl.	2028 Proj. Empl.	Wage Cat.	Job Avail.	Educ.	Work Exp.	Job Training	Skill
17-3011	Architectural and Civil Drafters	411	396	Avg	Fair	Assoc	None	None	M
17-3012	Electrical and Electronics Drafters	85	86	+Avg	Poor	Assoc	None	None	M
17-3013	Mechanical Drafters	177	171	+Avg	Fair	Assoc	None	None	M
17-3022	Civil Engineering Technicians	348	360	Avg	Fair	Assoc	None	None	M
17-3025	Environmental Engineering Technicians	61	64	Avg	Poor	Assoc	None	None	M
17-3026	Industrial Engineering Technicians	40	39	Avg	Poor	Assoc	None	None	M
17-3029	Engineering Technicians, Except Drafters, All Other	77	76	Avg	Poor	Assoc	None	None	M
17-3031	Surveying and Mapping Technicians	140	140	-Avg	Fair	HS	None	MOJT	M
19-0000 Life, Physical, and Social Science Occupations									
19-1013	Soil and Plant Scientists	108	112	Avg	Fair	Bach	None	None	H
19-1021	Biochemists and Biophysicists	250	249	High	Fair	PhD/prof	None	None	H
19-1022	Microbiologists	191	193	+Avg	Fair	Bach	None	None	H
19-1031	Conservation Scientists	93	96	Avg	Fair	Bach	None	None	H
19-1042	Medical Scientists, Except Epidemiologists	397	435	High	Good	PhD/prof	None	None	H
19-2031	Chemists	1,417	1,383	High	Excl	Bach	None	None	H
19-2032	Materials Scientists	87	89	High	Poor	Bach	None	None	H
19-2041	Environmental Scientists and Specialists, Including Health	380	404	+Avg	Good	Bach	None	None	H
19-2042	Geoscientists, Except Hydrologists and Geographers	109	112	High	Fair	Bach	None	None	H
19-3011	Economists	39	42	High	Poor	Mast	None	None	H
19-3022	Survey Researchers	90	83	+Avg	Poor	Mast	None	None	H
19-3031	Clinical, Counseling, and School Psychologists	662	741	High	Good	PhD/prof	None	Int	H
19-3051	Urban and Regional Planners	210	236	+Avg	Fair	Mast	None	None	H
19-3099	Social Scientists and Related Workers, All Other	70	70	+Avg	Poor	Bach	None	None	H
19-4011	Agricultural and Food Science Technicians	30	31	Avg	Poor	Assoc	None	MOJT	M
19-4021	Biological Technicians	183	191	Avg	Fair	Bach	None	None	H
19-4031	Chemical Technicians	646	661	+Avg	Good	Assoc	None	MOJT	M
19-4091	Environmental Science and Protection Technicians, Including Health	225	238	-Avg	Fair	Assoc	None	None	M
19-4092	Forensic Science Technicians	30	34	Avg	Poor	Bach	None	MOJT	H
19-4099	Life, Physical, and Social Science Technicians, All Other	32	34	Avg	Poor	Assoc	None	None	M
21-0000 Community and Social Service Occupations									
21-1012	Educational, Guidance, School, and Vocational Counselors	1,198	1,259	+Avg	Excl	Mast	None	None	H
21-1013	Marriage and Family Therapists	228	246	Avg	Fair	Mast	None	Int	H

Occupation Projections by Occupational Group

SOC Code	Title of Occupation	2018 Est. Empl.	2028 Proj. Empl.	Wage Cat.	Job Avail.	Educ.	Work Exp.	Job Training	Skill
21-1015	Rehabilitation Counselors	508	564	-Avg	Good	Mast	None	None	H
21-1021	Child, Family, and School Social Workers	1,234	1,304	-Avg	Excl	Bach	None	None	H
21-1022	Healthcare Social Workers	560	659	Avg	Good	Mast	None	Int	H
21-1023	Mental Health and Substance Abuse Social Workers	372	430	Avg	Good	Mast	None	Int	H
21-1029	Social Workers, All Other	130	132	+Avg	Fair	Bach	None	None	H
21-1091	Health Educators	327	363	+Avg	Good	Bach	None	None	H
21-1093	Social and Human Service Assistants	890	1,000	Low	Excl	HS	None	SOJT	L
21-1094	Community Health Workers	179	195	-Avg	Fair	HS	None	SOJT	L
21-1099	Community and Social Service Specialists, All Other	529	567	-Avg	Good	Bach	None	None	H
21-2011	Clergy	60	69	Avg	Poor	Bach	None	MOJT	H
23-0000 Legal Occupations									
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	77	80	+Avg	Poor	PhD/ prof	5+	SOJT	H
23-1023	Judges, Magistrate Judges, and Magistrates	118	125	High	Poor	PhD/ prof	5+	SOJT	H
23-2011	Paralegals and Legal Assistants	1,255	1,329	Avg	Excl	Assoc	None	None	M
23-2099	Legal Support Workers, All Other	721	672	Avg	Good	Assoc	None	None	M
25-0000 Education, Training, and Library Occupations									
25-1021	Computer Science Teachers, Postsecondary	173	176	High	Fair	PhD/ prof	None	None	H
25-1022	Mathematical Science Teachers, Postsecondary	181	182	High	Fair	PhD/ prof	None	None	H
25-1032	Engineering Teachers, Postsecondary	265	288	+Avg	Fair	PhD/ prof	None	None	H
25-1052	Chemistry Teachers, Postsecondary	97	101	High	Poor	PhD/ prof	None	None	H
25-1067	Sociology Teachers, Postsecondary	103	107	High	Poor	PhD/ prof	None	None	H
25-1081	Education Teachers, Postsecondary	235	247	High	Fair	PhD/ prof	<5	None	H
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	46	48	+Avg	Poor	PhD/ prof	None	None	H
25-1113	Social Work Teachers, Postsecondary	63	66	High	Poor	PhD/ prof	None	None	H
25-1123	English Language and Literature Teachers, Postsecondary	267	271	+Avg	Fair	PhD/ prof	None	None	H
25-1125	History Teachers, Postsecondary	55	57	High	Poor	PhD/ prof	None	None	H
25-1194	Vocational Education Teachers, Postsecondary	269	262	+Avg	Fair	Bach	<5	None	H
25-1199	Postsecondary Teachers, All Other	61	62	+Avg	Poor	PhD/ prof	None	None	H
25-2011	Preschool Teachers, Except Special Education	2,282	2,371	Low	Excl	Assoc	None	None	M

Occupation Projections by Occupational Group

SOC Code	Title of Occupation	2018 Est. Empl.	2028 Proj. Empl.	Wage Cat.	Job Avail.	Educ.	Work Exp.	Job Training	Skill
25-2012	Kindergarten Teachers, Except Special Education	443	449	+Avg	Good	Bach	None	None	H
25-2021	Elementary School Teachers, Except Special Education	4,355	4,395	+Avg	Excl	Bach	None	None	H
25-2022	Middle School Teachers, Except Special and Career/Technical Education	3,054	3,088	+Avg	Excl	Bach	None	None	H
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	3,043	3,079	+Avg	Excl	Bach	None	None	H
25-2052	Special Education Teachers, Kindergarten and Elementary School	1,252	1,254	+Avg	Good	Bach	None	None	H
25-2054	Special Education Teachers, Secondary School	302	304	+Avg	Fair	Bach	None	None	H
25-3021	Self-Enrichment Education Teachers	734	794	-Avg	Good	HS	<5	None	M
25-4012	Curators	63	66	+Avg	Poor	Mast	None	None	H
25-4021	Librarians	428	434	+Avg	Good	Mast	None	None	H
25-4031	Library Technicians	248	226	-Avg	Fair	VocEd	None	None	M
25-9011	Audio-Visual and Multimedia Collections Specialists	56	57	Avg	Poor	Bach	<5	None	H
25-9021	Farm and Home Management Advisors	108	108	Avg	Fair	Mast	None	None	H
25-9031	Instructional Coordinators	1,064	1,106	+Avg	Excl	Mast	5+	None	H
25-9041	Teacher Assistants	4,392	4,477	Low	Excl	HS	None	None	L
25-9099	Education, Training, and Library Workers, All Other	111	113	-Avg	Fair	Bach	None	None	H
27-0000 Arts, Design, Entertainment, Sports, and Media Occupations									
27-1011	Art Directors	98	99	High	Fair	Bach	5+	None	H
27-1021	Commercial and Industrial Designers	25	24	High	Poor	Bach	None	None	H
27-1023	Floral Designers	104	90	Low	Poor	HS	None	MOJT	M
27-1024	Graphic Designers	573	583	Avg	Good	Bach	None	None	H
27-1025	Interior Designers	176	178	+Avg	Fair	Bach	None	None	H
27-1026	Merchandise Displayers and Window Trimmers	754	748	Low	Good	HS	None	SOJT	L
27-2012	Producers and Directors	80	80	+Avg	Poor	Bach	<5	None	H
27-2022	Coaches and Scouts	1,094	1,225	-Avg	Excl	Bach	None	None	H
27-2023	Umpires, Referees, and Other Sports Officials	160	175	Low	Fair	HS	None	MOJT	M
27-3022	Reporters and Correspondents	104	84	Avg	Poor	Bach	None	None	H
27-3031	Public Relations Specialists	928	977	+Avg	Excl	Bach	None	None	H
27-3041	Editors	153	147	+Avg	Fair	Bach	<5	None	H
27-3042	Technical Writers	115	124	+Avg	Fair	Bach	<5	SOJT	H
27-3043	Writers and Authors	115	116	+Avg	Fair	Bach	None	LOJT	H
27-3091	Interpreters and Translators	58	71	Avg	Poor	Bach	None	None	H
27-4011	Audio and Video Equipment Technicians	65	77	Avg	Poor	VocEd	None	SOJT	M
27-4012	Broadcast Technicians	68	64	-Avg	Poor	Assoc	None	SOJT	M
27-4021	Photographers	250	211	-Avg	Fair	HS	None	MOJT	M

Occupation Projections by Occupational Group

SOC Code	Title of Occupation	2018 Est. Empl.	2028 Proj. Empl.	Wage Cat.	Job Avail.	Educ.	Work Exp.	Job Training	Skill
29-0000 Healthcare Practitioners and Technical Occupations									
29-1011	Chiropractors	116	121	High	Poor	PhD/ prof	None	None	H
29-1021	Dentists, General	326	343	High	Fair	PhD/ prof	None	None	H
29-1031	Dietitians and Nutritionists	212	245	+Avg	Fair	Bach	None	Int	H
29-1041	Optometrists	103	109	High	Poor	PhD/ prof	None	None	H
29-1051	Pharmacists	1,064	1,085	High	Good	PhD/ prof	None	None	H
29-1062	Family and General Practitioners	483	536	High	Fair	PhD/ prof	None	Int	H
29-1063	Internists, General	108	116	High	Poor	PhD/ prof	None	Int	H
29-1064	Obstetricians and Gynecologists	108	116	High	Poor	PhD/ prof	None	Int	H
29-1065	Pediatricians, General	248	273	High	Poor	PhD/ prof	None	Int	H
29-1067	Surgeons	172	181	High	Poor	PhD/ prof	None	Int	H
29-1069	Physicians and Surgeons, All Other	1,818	2,030	High	Good	PhD/ prof	None	Int	H
29-1071	Physician Assistants	507	676	High	Good	Mast	None	None	H
29-1081	Podiatrists	87	94	High	Poor	PhD/ prof	None	Int	H
29-1122	Occupational Therapists	467	544	High	Fair	Mast	None	None	H
29-1123	Physical Therapists	908	1,112	High	Good	PhD/ prof	None	None	H
29-1124	Radiation Therapists	51	61	High	Poor	Assoc	None	None	M
29-1125	Recreational Therapists	113	126	Avg	Poor	Bach	None	None	H
29-1126	Respiratory Therapists	412	562	+Avg	Good	Assoc	None	None	M
29-1127	Speech-Language Pathologists	637	790	High	Good	Mast	None	Int	H
29-1128	Exercise Physiologists	88	101	Avg	Poor	Bach	None	None	H
29-1131	Veterinarians	271	299	High	Fair	PhD/ prof	None	None	H
29-1141	Registered Nurses	12,043	14,449	+Avg	Excl	Bach	None	None	H
29-1151	Nurse Anesthetists	150	177	High	Fair	Mast	None	None	H
29-1171	Nurse Practitioners	780	1,019	High	Good	Mast	None	None	H
29-1199	Health Diagnosing and Treating Practitioners, All Other	65	69	High	Poor	Mast	None	None	H
29-2021	Dental Hygienists	659	705	High	Good	Assoc	None	None	M
29-2031	Cardiovascular Technologists and Technicians	301	352	Avg	Fair	Assoc	None	None	M
29-2032	Diagnostic Medical Sonographers	193	247	+Avg	Fair	Assoc	None	None	M
29-2033	Nuclear Medicine Technologists	55	65	High	Poor	Assoc	None	None	M

Occupation Projections by Occupational Group

SOC Code	Title of Occupation	2018 Est. Empl.	2028 Proj. Empl.	Wage Cat.	Job Avail.	Educ.	Work Exp.	Job Training	Skill
29-2034	Radiologic Technologists	736	856	+Avg	Good	Assoc	None	None	M
29-2035	Magnetic Resonance Imaging Technologists	172	202	+Avg	Fair	Assoc	<5	None	M
29-2041	Emergency Medical Technicians and Paramedics	1,322	1,462	-Avg	Excl	VocEd	None	None	M
29-2051	Dietetic Technicians	104	121	Low	Fair	Assoc	None	None	M
29-2052	Pharmacy Technicians	1,468	1,588	-Avg	Excl	HS	None	MOJT	M
29-2055	Surgical Technologists	322	380	Avg	Fair	VocEd	None	None	M
29-2056	Veterinary Technologists and Technicians	409	453	-Avg	Fair	Assoc	None	None	M
29-2061	Licensed Practical and Licensed Vocational Nurses	2,352	2,651	Avg	Excl	VocEd	None	None	M
29-2071	Medical Records and Health Information Technicians	564	643	Avg	Good	VocEd	None	None	M
29-2081	Opticians, Dispensing	436	479	-Avg	Good	HS	None	LOJT	M
29-2099	Health Technologists and Technicians, All Other	160	195	Avg	Fair	VocEd	None	None	M
29-9011	Occupational Health and Safety Specialists	487	518	+Avg	Fair	Bach	None	None	H
29-9012	Occupational Health and Safety Technicians	44	44	Avg	Poor	HS	None	MOJT	M
29-9091	Athletic Trainers	100	121	Avg	Poor	Bach	None	None	H
29-9099	Healthcare Practitioners and Technical Workers, All Other	100	117	+Avg	Poor	VocEd	None	None	M
31-0000 Healthcare Support Occupations									
31-1011	Home Health Aides	1,664	2,250	Low	Excl	HS	None	SOJT	L
31-1014	Nursing Assistants	4,957	5,614	Low	Excl	VocEd	None	None	M
31-2021	Physical Therapist Assistants	351	443	Low	Good	Assoc	None	None	M
31-2022	Physical Therapist Aides	241	303	Low	Good	HS	None	SOJT	L
31-9091	Dental Assistants	826	886	-Avg	Excl	VocEd	None	None	M
31-9092	Medical Assistants	2,594	3,184	Low	Excl	VocEd	None	None	M
31-9093	Medical Equipment Preparers	167	196	-Avg	Fair	HS	None	MOJT	M
31-9094	Medical Transcriptionists	113	107	Low	Fair	VocEd	None	None	M
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	311	344	Low	Good	HS	None	SOJT	L
31-9097	Phlebotomists	501	637	-Avg	Good	VocEd	None	None	M
31-9099	Healthcare Support Workers, All Other	39	38	Avg	Poor	HS	None	None	L
33-0000 Protective Service Occupations									
33-1012	First-Line Supervisors of Police and Detectives	401	431	High	Fair	HS	<5	MOJT	M
33-1099	First-Line Supervisors of Protective Service Workers, All Other	367	374	Avg	Fair	HS	<5	None	M
33-2011	Firefighters	395	432	Avg	Fair	VocEd	None	LOJT	M
33-2021	Fire Inspectors and Investigators	86	91	+Avg	Poor	VocEd	5+	MOJT	M
33-3011	Bailiffs	85	86	Low	Poor	HS	None	MOJT	M
33-3021	Detectives and Criminal Investigators	99	101	High	Poor	HS	<5	MOJT	M
33-3041	Parking Enforcement Workers	58	38	-Avg	Poor	HS	None	SOJT	L

Occupation Projections by Occupational Group

SOC Code	Title of Occupation	2018 Est. Empl.	2028 Proj. Empl.	Wage Cat.	Job Avail.	Educ.	Work Exp.	Job Training	Skill
33-3051	Police and Sheriff's Patrol Officers	1,852	2,002	+Avg	Excl	HS	None	MOJT	M
33-9032	Security Guards	3,484	3,549	Low	Excl	HS	None	SOJT	L
33-9091	Crossing Guards	441	458	Low	Good	NFE	None	SOJT	L
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	385	439	Low	Excl	NFE	None	SOJT	L
33-9099	Protective Service Workers, All Other	378	397	Low	Good	HS	None	SOJT	L
35-0000 Food Preparation and Serving-Related Occupations									
35-1011	Chefs and Head Cooks	552	613	+Avg	Good	HS	5+	None	M
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	3,433	3,699	-Avg	Excl	HS	<5	None	M
35-2011	Cooks, Fast Food	733	650	Low	Good	NFE	None	SOJT	L
35-2012	Cooks, Institution and Cafeteria	2,936	2,939	Low	Excl	NFE	None	SOJT	L
35-2014	Cooks, Restaurant	4,763	5,659	Low	Excl	NFE	<5	MOJT	L
35-2015	Cooks, Short Order	138	142	Low	Fair	NFE	None	SOJT	L
35-2021	Food Preparation Workers	2,596	2,858	Low	Excl	NFE	None	SOJT	L
35-3011	Bartenders	2,916	3,070	Low	Excl	NFE	None	SOJT	L
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	11,763	13,452	Low	Excl	NFE	None	SOJT	L
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	1,645	1,672	Low	Excl	NFE	None	SOJT	L
35-3031	Waiters and Waitresses	8,361	8,698	Low	Excl	NFE	None	SOJT	L
35-3041	Food Servers, Nonrestaurant	1,059	1,207	Low	Excl	NFE	None	SOJT	L
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	1,434	1,550	Low	Excl	NFE	None	SOJT	L
35-9021	Dishwashers	1,703	1,726	Low	Excl	NFE	None	SOJT	L
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	1,683	1,816	Low	Excl	NFE	None	SOJT	L
35-9099	Food Preparation and Serving Related Workers, All Other	137	146	Low	Fair	NFE	None	SOJT	L
37-0000 Building and Grounds Cleaning and Maintenance Occupations									
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	1,077	1,140	Avg	Excl	HS	<5	None	M
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	501	543	Avg	Good	HS	<5	None	M
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	9,365	9,850	Low	Excl	NFE	None	SOJT	L
37-2012	Maids and Housekeeping Cleaners	2,491	2,614	Low	Excl	NFE	None	SOJT	L
37-3011	Landscaping and Groundskeeping Workers	4,204	4,527	Low	Excl	NFE	None	SOJT	L
37-3012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	81	83	Low	Fair	HS	None	MOJT	M

Occupation Projections by Occupational Group

SOC Code	Title of Occupation	2018 Est. Empl.	2028 Proj. Empl.	Wage Cat.	Job Avail.	Educ.	Work Exp.	Job Training	Skill
39-0000 Personal Care and Service Occupations									
39-1021	First-Line Supervisors of Personal Service Workers	939	1,064	Avg	Excl	HS	<5	None	M
39-2011	Animal Trainers	102	113	-Avg	Fair	HS	None	MOJT	M
39-2021	Nonfarm Animal Caretakers	1,089	1,268	Low	Excl	HS	None	SOJT	L
39-3012	Gaming and Sports Book Writers and Runners	66	66	Low	Fair	HS	None	SOJT	L
39-3091	Amusement and Recreation Attendants	1,592	1,817	Low	Excl	NFE	None	SOJT	L
39-4021	Funeral Attendants	193	211	-Avg	Fair	HS	None	SOJT	L
39-5012	Hairdressers, Hairstylists, and Cosmetologists	2,948	3,338	-Avg	Excl	VocEd	None	None	M
39-5092	Manicurists and Pedicurists	523	611	Low	Good	VocEd	None	None	M
39-5093	Shampooers	351	409	Low	Good	NFE	None	SOJT	L
39-6011	Baggage Porters and Bellhops	35	39	Low	Poor	HS	None	SOJT	L
39-6012	Concierges	44	47	Low	Poor	HS	None	MOJT	M
39-9011	Childcare Workers	1,502	1,646	Low	Excl	HS	None	SOJT	L
39-9021	Personal Care Aides	5,308	7,128	Low	Excl	HS	None	SOJT	L
39-9031	Fitness Trainers and Aerobics Instructors	1,478	1,711	-Avg	Excl	HS	None	SOJT	L
39-9032	Recreation Workers	1,060	1,177	Low	Excl	HS	None	SOJT	L
41-0000 Sales and Related Occupations									
41-1011	First-Line Supervisors of Retail Sales Workers	5,200	5,259	Avg	Excl	HS	<5	None	M
41-1012	First-Line Supervisors of Non-Retail Sales Workers	920	938	High	Good	HS	<5	None	M
41-2011	Cashiers	13,813	13,345	Low	Excl	NFE	None	SOJT	L
41-2021	Counter and Rental Clerks	1,312	1,396	Low	Excl	NFE	None	SOJT	L
41-2031	Retail Salespersons	14,745	14,903	Low	Excl	NFE	None	SOJT	L
41-3011	Advertising Sales Agents	315	294	+Avg	Good	HS	None	MOJT	M
41-3021	Insurance Sales Agents	1,373	1,384	+Avg	Excl	HS	None	MOJT	M
41-3031	Securities, Commodities, and Financial Services Sales Agents	2,314	2,425	High	Excl	Bach	None	MOJT	H
41-3041	Travel Agents	143	127	-Avg	Fair	HS	None	MOJT	M
41-3099	Sales Representatives, Services, All Other	3,145	3,402	+Avg	Excl	HS	None	MOJT	M
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	936	927	High	Good	Bach	None	MOJT	H
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	2,865	2,941	+Avg	Excl	HS	None	MOJT	M
41-9011	Demonstrators and Product Promoters	307	302	Low	Good	NFE	None	SOJT	L
41-9022	Real Estate Sales Agents	1,020	1,099	Avg	Excl	HS	None	MOJT	M
41-9099	Sales and Related Workers, All Other	196	196	Avg	Fair	HS	None	None	L

Occupation Projections by Occupational Group

SOC Code	Title of Occupation	2018 Est. Empl.	2028 Proj. Empl.	Wage Cat.	Job Avail.	Educ.	Work Exp.	Job Training	Skill
43-0000 Office and Administrative Support Occupations									
43-1011	First-Line Supervisors of Office and Administrative Support Workers	5,276	5,273	+Avg	Excl	HS	<5	None	M
43-2011	Switchboard Operators, Including Answering Service	218	171	Low	Fair	HS	None	SOJT	L
43-3011	Bill and Account Collectors	1,027	934	-Avg	Excl	HS	None	MOJT	M
43-3021	Billing and Posting Clerks	2,259	2,454	-Avg	Excl	HS	None	MOJT	M
43-3031	Bookkeeping, Accounting, and Auditing Clerks	7,865	7,509	Avg	Excl	HS	None	MOJT	M
43-3051	Payroll and Timekeeping Clerks	520	497	Avg	Good	HS	None	MOJT	M
43-3071	Tellers	1,607	1,421	Low	Excl	HS	None	SOJT	L
43-3099	Financial Clerks, All Other	218	233	Avg	Fair	HS	None	SOJT	L
43-4031	Court, Municipal, and License Clerks	758	805	-Avg	Good	HS	None	LOJT	M
43-4051	Customer Service Representatives	9,064	8,686	-Avg	Excl	HS	None	SOJT	L
43-4061	Eligibility Interviewers, Government Programs	173	182	-Avg	Fair	HS	None	MOJT	M
43-4071	File Clerks	606	499	Low	Good	HS	None	SOJT	L
43-4081	Hotel, Motel, and Resort Desk Clerks	746	742	Low	Excl	HS	None	SOJT	L
43-4111	Interviewers, Except Eligibility and Loan	733	787	-Avg	Good	HS	None	SOJT	L
43-4121	Library Assistants, Clerical	517	480	Low	Good	HS	None	SOJT	L
43-4131	Loan Interviewers and Clerks	792	877	-Avg	Good	HS	None	SOJT	L
43-4141	New Accounts Clerks	280	263	Avg	Fair	HS	None	MOJT	M
43-4151	Order Clerks	302	287	-Avg	Fair	HS	None	SOJT	L
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	399	385	-Avg	Good	Assoc	None	None	M
43-4171	Receptionists and Information Clerks	2,595	2,654	Low	Excl	HS	None	SOJT	L
43-4199	Information and Record Clerks, All Other	353	355	-Avg	Good	HS	None	SOJT	L
43-5011	Cargo and Freight Agents	107	124	-Avg	Fair	HS	None	SOJT	L
43-5021	Couriers and Messengers	341	335	Low	Fair	HS	None	SOJT	L
43-5031	Police, Fire, and Ambulance Dispatchers	276	301	Avg	Fair	HS	None	MOJT	M
43-5032	Dispatchers, Except Police, Fire, and Ambulance	725	745	Avg	Good	HS	None	MOJT	M
43-5041	Meter Readers, Utilities	59	52	Avg	Poor	HS	None	SOJT	L
43-5051	Postal Service Clerks	232	231	Avg	Fair	HS	None	SOJT	L
43-5052	Postal Service Mail Carriers	1,059	1,049	Avg	Good	HS	None	SOJT	L
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	382	360	Avg	Fair	HS	None	SOJT	L
43-5061	Production, Planning, and Expediting Clerks	698	720	Avg	Good	HS	None	MOJT	M
43-5071	Shipping, Receiving, and Traffic Clerks	2,327	2,288	Low	Excl	HS	None	SOJT	L
43-5081	Stock Clerks and Order Fillers	4,767	5,005	Low	Excl	HS	None	SOJT	L
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	255	270	Low	Fair	HS	None	SOJT	L
43-6011	Executive Secretaries and Executive Administrative Assistants	1,441	1,155	+Avg	Excl	HS	<5	None	M

Occupation Projections by Occupational Group

SOC Code	Title of Occupation	2018 Est. Empl.	2028 Proj. Empl.	Wage Cat.	Job Avail.	Educ.	Work Exp.	Job Training	Skill
43-6012	Legal Secretaries	1,035	763	Avg	Good	HS	None	MOJT	M
43-6013	Medical Secretaries	4,522	5,303	-Avg	Excl	HS	None	MOJT	M
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	7,352	6,611	-Avg	Excl	HS	None	SOJT	L
43-9011	Computer Operators	127	93	Avg	Fair	HS	None	MOJT	M
43-9021	Data Entry Keyers	632	453	Low	Good	HS	None	SOJT	L
43-9022	Word Processors and Typists	118	78	-Avg	Poor	HS	None	SOJT	L
43-9041	Insurance Claims and Policy Processing Clerks	977	948	-Avg	Good	HS	None	MOJT	M
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	402	364	Low	Fair	HS	None	SOJT	L
43-9061	Office Clerks, General	6,915	6,527	Low	Excl	HS	None	SOJT	L
43-9199	Office and Administrative Support Workers, All Other	560	590	-Avg	Good	HS	None	SOJT	L
45-0000 Farming, Fishing, and Forestry Occupations									
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	226	223	Avg	Fair	HS	<5	None	M
45-2011	Agricultural Inspectors	169	162	Avg	Fair	Bach	None	MOJT	H
45-2041	Graders and Sorters, Agricultural Products	210	197	Low	Fair	NFE	None	SOJT	L
45-2091	Agricultural Equipment Operators	205	213	-Avg	Fair	NFE	None	MOJT	L
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	1,704	1,626	Low	Excl	NFE	None	SOJT	L
45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	1,203	1,146	Low	Excl	NFE	None	SOJT	L
47-0000 Construction and Extraction Occupations									
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	2,353	2,544	+Avg	Excl	HS	5+	None	M
47-2021	Brickmasons and Blockmasons	232	253	Avg	Fair	HS	None	App	M
47-2031	Carpenters	2,472	2,726	Avg	Excl	HS	None	App	M
47-2041	Carpet Installers	181	176	Avg	Fair	NFE	None	SOJT	L
47-2043	Floor Sanders and Finishers	79	87	-Avg	Poor	NFE	None	MOJT	L
47-2051	Cement Masons and Concrete Finishers	448	476	Avg	Good	NFE	None	MOJT	L
47-2061	Construction Laborers	2,380	2,437	-Avg	Excl	NFE	None	SOJT	L
47-2071	Paving, Surfacing, and Tamping Equipment Operators	248	237	Avg	Fair	HS	None	MOJT	M
47-2073	Operating Engineers and Other Construction Equipment Operators	1,339	1,336	-Avg	Excl	HS	None	MOJT	M
47-2081	Drywall and Ceiling Tile Installers	237	238	-Avg	Fair	NFE	None	MOJT	L
47-2111	Electricians	2,253	2,478	+Avg	Excl	HS	None	App	M
47-2121	Glaziers	25	27	-Avg	Poor	HS	None	App	M
47-2132	Insulation Workers, Mechanical	288	314	Avg	Fair	HS	None	App	M
47-2141	Painters, Construction and Maintenance	765	805	-Avg	Good	NFE	None	MOJT	L
47-2151	Pipelayers	112	117	-Avg	Fair	NFE	None	SOJT	L

Occupation Projections by Occupational Group

SOC Code	Title of Occupation	2018 Est. Empl.	2028 Proj. Empl.	Wage Cat.	Job Avail.	Educ.	Work Exp.	Job Training	Skill
47-2152	Plumbers, Pipefitters, and Steamfitters	1,345	1,533	+Avg	Excl	HS	None	App	M
47-2181	Roofers	217	244	-Avg	Fair	NFE	None	MOJT	L
47-2211	Sheet Metal Workers	552	588	Avg	Good	HS	None	App	M
47-2221	Structural Iron and Steel Workers	191	217	Avg	Fair	HS	None	App	M
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	157	172	-Avg	Fair	NFE	None	SOJT	L
47-3012	Helpers--Carpenters	337	390	Low	Good	NFE	None	SOJT	L
47-3013	Helpers--Electricians	275	289	Low	Fair	HS	None	SOJT	L
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	268	308	Low	Good	HS	None	SOJT	L
47-3016	Helpers--Roofers	60	67	Low	Poor	NFE	None	SOJT	L
47-4011	Construction and Building Inspectors	539	556	+Avg	Good	HS	5+	MOJT	M
47-4041	Hazardous Materials Removal Workers	77	82	-Avg	Fair	HS	None	MOJT	M
47-4051	Highway Maintenance Workers	58	62	-Avg	Poor	HS	None	MOJT	M
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	130	140	-Avg	Fair	HS	None	MOJT	M
47-5021	Earth Drillers, Except Oil and Gas	39	33	Avg	Poor	HS	None	MOJT	M
49-0000 Installation, Maintenance, and Repair Occupations									
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	1,795	1,892	+Avg	Excl	HS	<5	None	M
49-2011	Computer, Automated Teller, and Office Machine Repairers	269	279	Avg	Fair	HS	None	SOJT	L
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	172	181	+Avg	Fair	VocEd	None	MOJT	M
49-2091	Avionics Technicians	82	91	+Avg	Poor	Assoc	None	None	M
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	264	266	+Avg	Fair	VocEd	None	LOJT	M
49-2098	Security and Fire Alarm Systems Installers	172	189	Avg	Fair	HS	None	MOJT	M
49-3011	Aircraft Mechanics and Service Technicians	422	468	+Avg	Good	VocEd	None	None	M
49-3021	Automotive Body and Related Repairers	416	435	-Avg	Good	HS	None	LOJT	M
49-3023	Automotive Service Technicians and Mechanics	2,090	2,073	Avg	Excl	VocEd	None	SOJT	M
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	703	747	Avg	Good	HS	None	LOJT	M
49-3041	Farm Equipment Mechanics and Service Technicians	143	157	-Avg	Fair	HS	None	LOJT	M
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	479	502	Avg	Good	HS	None	LOJT	M
49-3051	Motorboat Mechanics and Service Technicians	147	162	-Avg	Fair	HS	None	LOJT	M
49-3052	Motorcycle Mechanics	23	25	Low	Poor	VocEd	None	SOJT	M
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	219	234	-Avg	Fair	HS	None	MOJT	M
49-3093	Tire Repairers and Changers	227	211	Low	Fair	HS	None	SOJT	L

Occupation Projections by Occupational Group

SOC Code	Title of Occupation	2018 Est. Empl.	2028 Proj. Empl.	Wage Cat.	Job Avail.	Educ.	Work Exp.	Job Training	Skill
49-9011	Mechanical Door Repairers	79	87	-Avg	Poor	HS	None	MOJT	M
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	83	83	+Avg	Poor	HS	None	MOJT	M
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	1,761	1,952	Avg	Excl	VocEd	None	LOJT	M
49-9031	Home Appliance Repairers	88	95	-Avg	Fair	HS	None	MOJT	M
49-9041	Industrial Machinery Mechanics	1,098	1,167	Avg	Excl	HS	None	LOJT	M
49-9044	Millwrights	87	99	Avg	Poor	HS	None	App	M
49-9051	Electrical Power-Line Installers and Repairers	341	341	+Avg	Fair	HS	None	LOJT	M
49-9062	Medical Equipment Repairers	132	141	+Avg	Fair	Assoc	None	MOJT	M
49-9069	Precision Instrument and Equipment Repairers, All Other	48	50	Avg	Poor	HS	None	LOJT	M
49-9071	Maintenance and Repair Workers, General	3,622	3,884	-Avg	Excl	HS	None	MOJT	M
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	74	74	-Avg	Poor	HS	None	SOJT	L
49-9098	Helpers—Installation, Maintenance, and Repair Workers	807	875	Low	Excl	HS	None	SOJT	L
49-9099	Installation, Maintenance, and Repair Workers, All Other	376	403	-Avg	Good	HS	None	MOJT	M
51-0000 Production Occupations									
51-1011	First-Line Supervisors of Production and Operating Workers	1,381	1,396	+Avg	Excl	HS	<5	None	M
51-2041	Structural Metal Fabricators and Fitters	148	132	Avg	Fair	HS	None	MOJT	M
51-3011	Bakers	371	387	Low	Good	NFE	None	LOJT	M
51-3021	Butchers and Meat Cutters	162	175	-Avg	Fair	NFE	None	LOJT	M
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	5,611	5,550	Low	Excl	NFE	None	SOJT	L
51-3023	Slaughterers and Meat Packers	392	390	Low	Good	NFE	None	SOJT	L
51-3099	Food Processing Workers, All Other	365	362	Low	Fair	NFE	None	MOJT	L
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	89	84	-Avg	Poor	HS	None	MOJT	M
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	232	210	-Avg	Fair	HS	None	MOJT	M
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	211	194	Low	Fair	HS	None	MOJT	M
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	42	39	Low	Poor	HS	None	MOJT	M
51-4041	Machinists	346	355	Avg	Fair	HS	None	LOJT	M
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	123	115	-Avg	Fair	HS	None	MOJT	M
51-4121	Welders, Cutters, Solderers, and Brazers	756	781	Avg	Good	HS	None	MOJT	M
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	40	40	-Avg	Poor	HS	None	MOJT	M

Occupation Projections by Occupational Group

SOC Code	Title of Occupation	2018 Est. Empl.	2028 Proj. Empl.	Wage Cat.	Job Avail.	Educ.	Work Exp.	Job Training	Skill
51-5111	Prepress Technicians and Workers	43	35	Avg	Poor	VocEd	None	None	M
51-5112	Printing Press Operators	234	217	-Avg	Fair	HS	None	MOJT	M
51-5113	Print Binding and Finishing Workers	55	48	-Avg	Poor	HS	None	MOJT	M
51-6011	Laundry and Dry-Cleaning Workers	644	682	Low	Good	NFE	None	SOJT	L
51-6031	Sewing Machine Operators	186	154	Low	Fair	NFE	None	SOJT	L
51-6052	Tailors, Dressmakers, and Custom Sewers	85	85	Low	Fair	NFE	None	MOJT	L
51-6093	Upholsterers	22	23	Avg	Poor	HS	None	MOJT	M
51-7011	Cabinetmakers and Bench Carpenters	178	189	Avg	Fair	HS	None	MOJT	M
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	28	30	-Avg	Poor	HS	None	MOJT	M
51-8021	Stationary Engineers and Boiler Operators	55	59	+Avg	Poor	HS	None	LOJT	M
51-8031	Water and Wastewater Treatment Plant and System Operators	389	379	Avg	Fair	HS	None	LOJT	M
51-9011	Chemical Equipment Operators and Tenders	831	843	+Avg	Good	HS	None	MOJT	M
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	72	79	-Avg	Fair	HS	None	MOJT	M
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	285	291	Avg	Fair	HS	None	MOJT	M
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	88	90	-Avg	Fair	HS	None	MOJT	M
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	799	665	-Avg	Good	HS	None	MOJT	M
51-9082	Medical Appliance Technicians	33	36	-Avg	Poor	HS	None	MOJT	M
51-9111	Packaging and Filling Machine Operators and Tenders	851	848	Low	Good	HS	None	MOJT	M
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	56	60	Avg	Poor	HS	None	MOJT	M
51-9122	Painters, Transportation Equipment	126	133	-Avg	Fair	HS	None	MOJT	M
51-9151	Photographic Process Workers and Processing Machine Operators	39	21	Low	Poor	HS	None	SOJT	L
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	94	106	-Avg	Fair	HS	None	LOJT	M
51-9198	Helpers--Production Workers	421	440	Low	Good	HS	None	SOJT	L
53-0000 Transportation and Material Moving Occupations									
53-2012	Commercial Pilots	308	319	High	Fair	HS	None	MOJT	M
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	59	66	Low	Fair	HS	None	MOJT	M
53-3021	Bus Drivers, Transit and Intercity	477	505	-Avg	Good	HS	None	MOJT	M
53-3022	Bus Drivers, School or Special Client	1,998	2,143	-Avg	Excl	HS	None	SOJT	L
53-3032	Heavy and Tractor-Trailer Truck Drivers	4,631	4,851	Avg	Excl	VocEd	None	SOJT	M
53-3033	Light Truck or Delivery Services Drivers	2,759	2,884	-Avg	Excl	HS	None	SOJT	L
53-3041	Taxi Drivers and Chauffeurs	731	853	Low	Good	NFE	None	SOJT	L
53-4011	Locomotive Engineers	78	69	+Avg	Poor	HS	<5	MOJT	M

Occupation Projections by Occupational Group

SOC Code	Title of Occupation	2018 Est. Empl.	2028 Proj. Empl.	Wage Cat.	Job Avail.	Educ.	Work Exp.	Job Training	Skill
53-5021	Captains, Mates, and Pilots of Water Vessels	66	69	+Avg	Poor	VocEd	<5	None	M
53-6021	Parking Lot Attendants	338	361	Low	Good	NFE	None	SOJT	L
53-6031	Automotive and Watercraft Service Attendants	208	215	Low	Fair	NFE	None	SOJT	L
53-7021	Crane and Tower Operators	105	112	Avg	Fair	HS	<5	MOJT	M
53-7032	Excavating and Loading Machine and Dragline Operators	160	160	Avg	Fair	HS	<5	MOJT	M
53-7051	Industrial Truck and Tractor Operators	1,985	2,187	-Avg	Excl	NFE	None	SOJT	L
53-7061	Cleaners of Vehicles and Equipment	1,019	1,071	Low	Excl	NFE	None	SOJT	L
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	5,034	5,175	Low	Excl	NFE	None	SOJT	L
53-7063	Machine Feeders and Offbearers	193	210	Low	Fair	NFE	None	SOJT	L
53-7081	Refuse and Recyclable Material Collectors	470	493	-Avg	Good	NFE	None	SOJT	L

Occupation Projections by Career Cluster

This section contains occupations grouped by career clusters. The US Department of Education developed these 16 groupings as a way to link school and work, helping students to choose a curriculum which is best suited to their career plans. The occupations listed here are the same ones displayed in the previous section; they are simply organized differently and present some different information.

Occupations are arranged alphabetically within each of the 16 career clusters. For each occupation, we provide its SOC code, forecasted average annual growth rate from 2018 to 2028, average annual openings due to growth for that period, average annual exits (workers leaving an occupation and the labor force), average annual transfers (workers leaving an occupation and transferring to a different occupation), annual total openings, and the estimated 2018 average annual wage. The SOC code can be used to refer back to the previous section to find the usual education, experience, and training requirements for the occupations.

The **Hospitality & Tourism** cluster is expected to generate the most job openings, with 114,452 projected. The **Health Science** cluster has the most new jobs projected, with 8,209. The clusters with the fewest job openings projected are **Arts, Audio/Video Technology & Communications**, with 2,255; **Government & Public Administration**, with 4,171; and **Science, Technology, Engineering & Mathematics (STEM)**, with 4,629. This last one may be surprising, but it is due to **Information Technology** which is usually considered part of STEM, having its own cluster.

While job openings may be relatively scarce, **Science, Technology, Engineering & Mathematics (STEM)** is again the highest-paying cluster; its occupations paid an average wage of \$101,636 in 2018. **Information Technology** was the next highest, at \$91,905. **Hospitality and Tourism** again had the lowest average wage. This cluster's occupations paid an average wage of \$26,744 in 2018. The cluster with the second lowest average pay is **Agriculture, Food & Natural Resources**, at \$35,243.

Wages, Projected Openings, and Growth by Career Cluster, 2018–2028

Career Cluster	Average Wage 2018	Rank	Total Openings	Rank	Percent Total Openings	New Jobs	Ann. Pct. Growth
Agriculture, Food & Natural Resources	\$35,243	15th	9,785	13th	1.8%	264	0.2%
Architecture & Construction	\$51,974	9th	35,395	5th	6.5%	2,123	0.7%
Arts, Audio/Video Technology & Communications	\$52,724	8th	2,255	16th	0.4%	42	-0.3%
Business Management & Administration	\$57,564	7th	80,217	2nd	14.8%	1,725	-0.1%
Education & Training	\$57,664	6th	25,819	9th	4.8%	728	0.2%
Finance	\$79,684	3rd	23,674	10th	4.4%	1,261	0.4%
Government & Public Administration	\$64,996	5th	4,171	15th	0.8%	249	0.5%
Health Science	\$71,766	4th	47,139	4th	8.7%	8,209	1.6%
Hospitality & Tourism	\$26,744	16th	114,452	1st	21.1%	5,267	0.8%
Human Services	\$36,572	14th	31,571	7th	5.8%	3,606	1.6%
Information Technology	\$91,905	2nd	12,619	12th	2.3%	1,378	0.8%
Law, Public Safety, Corrections & Security	\$47,564	10th	14,314	11th	2.6%	640	0.2%
Manufacturing	\$44,169	12th	27,144	8th	5.0%	735	0.2%
Marketing, Sales & Service	\$44,701	11th	73,565	3rd	13.6%	1,308	0.2%
Science, Technology, Engineering & Mathematics	\$101,636	1st	4,629	14th	0.9%	145	0.2%
Transportation, Distribution & Logistics	\$40,060	13th	34,918	6th	6.4%	1,497	0.5%

Table 2: Occupation Projections by Career Cluster

SOC Code	Title of Occupation	Annual Growth Rate	Annual Growth	Annual Exits	Annual Transfers	Annual Total Openings	2018 Average Wage
<i>Agriculture, Food, and Natural Resources</i>							
19-4011	Agricultural and Food Science Technicians	0.3%	0	1	3	4	\$44,057
45-2091	Agricultural Equipment Operators	0.4%	1	8	26	35	\$41,568
19-4021	Biological Technicians	0.4%	1	3	17	21	\$50,546
17-3025	Environmental Engineering Technicians	0.5%	0	2	4	6	\$57,781
17-2081	Environmental Engineers	0.3%	0	4	7	11	\$84,478
19-4091	Environmental Science and Protection Technicians, Including Health	0.6%	1	6	21	28	\$37,606
49-3041	Farm Equipment Mechanics and Service Technicians	0.9%	1	5	10	16	\$37,799
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	-0.5%	-8	66	206	264	\$28,392
45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	-0.5%	-6	47	145	186	\$32,885
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	-0.1%	0	8	25	33	\$54,779
45-2041	Graders and Sorters, Agricultural Products	-0.6%	-1	8	22	29	\$26,685
47-4041	Hazardous Materials Removal Workers	0.6%	0	3	7	10	\$41,414
39-2021	Nonfarm Animal Caretakers	1.5%	18	82	109	209	\$24,807
37-3012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	0.2%	0	3	7	10	\$33,638
53-7081	Refuse and Recyclable Material Collectors	0.5%	2	26	40	68	\$40,842
<i>Architecture and Construction</i>							
17-1011	Architects, Except Landscape and Naval	0.2%	0	4	8	12	\$83,410
17-3011	Architectural and Civil Drafters	-0.4%	-2	13	28	39	\$52,826
47-2021	Brickmasons and Blockmasons	0.9%	2	7	17	26	\$54,608
47-2031	Carpenters	1.0%	25	81	188	294	\$49,963
47-2041	Carpet Installers	-0.3%	0	5	12	17	\$54,736
47-2051	Cement Masons and Concrete Finishers	0.6%	3	14	35	52	\$46,805
17-3022	Civil Engineering Technicians	0.3%	1	12	23	36	\$45,874
17-2051	Civil Engineers	0.1%	1	18	51	70	\$91,406
47-2061	Construction Laborers	0.2%	6	80	187	273	\$35,640
11-9021	Construction Managers	0.9%	8	19	45	72	\$123,995
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	0.0%	0	2	5	7	\$69,757
13-1051	Cost Estimators	0.9%	9	26	75	110	\$68,694
53-7021	Crane and Tower Operators	0.6%	1	3	9	13	\$44,822
47-2081	Drywall and Ceiling Tile Installers	0.0%	0	7	17	24	\$42,885
47-5021	Earth Drillers, Except Oil and Gas	-1.7%	-1	1	4	4	\$52,955
49-9051	Electrical Power-Line Installers and Repairers	0.0%	0	8	20	28	\$78,159

Occupation Projections by Career Cluster

SOC Code	Title of Occupation	Annual Growth Rate	Annual Growth	Annual Exits	Annual Transfers	Annual Total Openings	2018 Average Wage
47-2111	Electricians	1.0%	22	73	201	296	\$58,890
53-7032	Excavating and Loading Machine and Dragline Operators	0.0%	0	6	13	19	\$50,001
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	0.8%	19	73	182	274	\$73,635
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	0.8%	4	18	39	61	\$55,480
47-2043	Floor Sanders and Finishers	1.0%	1	2	6	9	\$39,767
47-2121	Glaziers	0.8%	0	1	2	3	\$35,129
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	1.0%	19	51	131	201	\$51,362
47-3011	Helpers—Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	0.9%	2	5	17	24	\$39,228
47-3012	Helpers—Carpenters	1.5%	5	12	37	54	\$29,288
47-3013	Helpers—Electricians	0.5%	1	9	29	39	\$33,019
49-9098	Helpers—Installation, Maintenance, and Repair Workers	0.8%	7	45	62	114	\$28,017
47-3015	Helpers—Pipelayers, Plumbers, Pipefitters, and Steamfitters	1.4%	4	10	29	43	\$28,774
47-3016	Helpers—Roofers	1.1%	1	2	6	9	\$32,285
47-4051	Highway Maintenance Workers	0.7%	0	2	4	6	\$39,387
47-2132	Insulation Workers, Mechanical	0.9%	3	7	27	37	\$49,314
27-1025	Interior Designers	0.1%	0	6	12	18	\$59,239
37-3011	Landscaping and Groundskeeping Workers	0.7%	32	179	386	597	\$30,689
49-9011	Mechanical Door Repairers	1.0%	1	2	5	8	\$40,903
49-9044	Millwrights	1.3%	1	3	5	9	\$55,116
47-2073	Operating Engineers and Other Construction Equipment Operators	0.0%	0	45	109	154	\$42,824
47-2141	Painters, Construction and Maintenance	0.5%	4	27	52	83	\$41,294
47-2071	Paving, Surfacing, and Tamping Equipment Operators	-0.5%	-1	11	19	29	\$44,856
47-2151	Pipelayers	0.4%	0	3	9	12	\$43,057
47-2152	Plumbers, Pipefitters, and Steamfitters	1.3%	19	42	118	179	\$61,644
47-2181	Roofers	1.2%	3	6	18	27	\$42,913
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	0.7%	1	4	11	16	\$39,649
47-2211	Sheet Metal Workers	0.6%	4	17	45	66	\$54,615
51-8021	Stationary Engineers and Boiler Operators	0.7%	0	2	4	6	\$63,430
47-2221	Structural Iron and Steel Workers	1.3%	3	6	18	27	\$50,451
51-2041	Structural Metal Fabricators and Fitters	-1.1%	-2	3	11	12	\$45,584
17-3031	Surveying and Mapping Technicians	0.0%	0	4	12	16	\$42,006
17-1022	Surveyors	-0.2%	0	3	6	9	\$73,108

Occupation Projections by Career Cluster

SOC Code	Title of Occupation	Annual Growth Rate	Annual Growth	Annual Exits	Annual Transfers	Annual Total Openings	2018 Average Wage
Arts, Audio/Visual, and Communications							
27-1011	Art Directors	0.1%	0	5	6	11	\$99,758
27-4011	Audio and Video Equipment Technicians	1.7%	1	2	5	8	\$46,571
27-4012	Broadcast Technicians	-0.6%	0	2	5	7	\$38,420
27-1021	Commercial and Industrial Designers	-0.4%	0	1	2	3	\$81,595
27-3041	Editors	-0.4%	-1	5	12	16	\$68,792
27-1023	Floral Designers	-1.4%	-1	3	6	8	\$29,176
27-1024	Graphic Designers	0.2%	1	19	39	59	\$50,924
27-4021	Photographers	-1.7%	-4	9	14	19	\$34,128
51-5111	Prepress Technicians and Workers	-2.0%	-1	1	3	3	\$51,021
51-5113	Print Binding and Finishing Workers	-1.4%	-1	3	4	6	\$38,546
51-5112	Printing Press Operators	-0.8%	-2	9	16	23	\$42,284
27-2012	Producers and Directors	0.0%	0	2	6	8	\$59,676
27-3022	Reporters and Correspondents	-2.1%	-2	3	8	9	\$50,581
27-3042	Technical Writers	0.8%	1	4	8	13	\$77,006
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	0.5%	1	5	14	20	\$58,351
27-3043	Writers and Authors	0.1%	0	5	7	12	\$60,687
Business, Management, and Administration							
11-3011	Administrative Services Managers	0.6%	6	26	53	85	\$121,209
43-3031	Bookkeeping, Accounting, and Auditing Clerks	-0.5%	-36	468	428	860	\$44,762
13-1199	Business Operations Specialists, All Other	0.4%	6	42	106	154	\$81,877
13-1141	Compensation, Benefits, and Job Analysis Specialists	0.4%	1	8	14	23	\$76,318
11-3021	Computer and Information Systems Managers	0.6%	8	22	80	110	\$169,717
43-9011	Computer Operators	-3.1%	-3	5	8	10	\$45,450
43-4051	Customer Service Representatives	-0.4%	-38	426	757	1145	\$38,059
43-9021	Data Entry Keyers	-3.3%	-18	24	38	44	\$32,970
43-6011	Executive Secretaries and Executive Administrative Assistants	-2.2%	-29	66	79	116	\$62,999
43-4071	File Clerks	-1.9%	-11	32	36	57	\$29,514
43-1011	First-Line Supervisors of Office and Administrative Support Workers	0.0%	0	198	355	553	\$62,704
13-1131	Fundraisers	0.8%	4	19	41	64	\$59,238
11-1021	General and Operations Managers	0.6%	24	90	284	398	\$150,936
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	-0.4%	-1	14	30	43	\$38,116
11-3121	Human Resources Managers	0.6%	3	10	26	39	\$144,063
13-1071	Human Resources Specialists	0.4%	9	62	171	242	\$67,525
11-3051	Industrial Production Managers	0.1%	0	8	18	26	\$133,758
43-4199	Information and Record Clerks, All Other	0.1%	0	17	24	41	\$42,673

Occupation Projections by Career Cluster

SOC Code	Title of Occupation	Annual Growth Rate	Annual Growth	Annual Exits	Annual Transfers	Annual Total Openings	2018 Average Wage
43-4111	Interviewers, Except Eligibility and Loan	0.7%	5	39	55	99	\$39,724
43-4121	Library Assistants, Clerical	-0.7%	-4	40	36	72	\$24,246
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	-1.0%	-4	18	24	38	\$31,968
13-1111	Management Analysts	1.0%	30	97	198	325	\$85,126
11-9199	Managers, All Other	0.7%	12	44	89	145	\$134,408
13-1121	Meeting, Convention, and Event Planners	0.6%	2	11	29	42	\$49,282
43-5041	Meter Readers, Utilities	-1.3%	-1	2	3	4	\$57,778
43-4141	New Accounts Clerks	-0.6%	-2	11	20	29	\$43,747
43-9199	Office and Administrative Support Workers, All Other	0.5%	3	24	43	70	\$41,340
43-9061	Office Clerks, General	-0.6%	-39	376	429	766	\$30,368
15-2031	Operations Research Analysts	2.0%	22	25	45	92	\$86,693
43-4151	Order Clerks	-0.5%	-2	12	22	32	\$35,224
43-3051	Payroll and Timekeeping Clerks	-0.5%	-2	24	32	54	\$44,944
43-5051	Postal Service Clerks	0.0%	0	10	8	18	\$52,225
43-5052	Postal Service Mail Carriers	-0.1%	-1	38	40	77	\$51,886
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	-0.6%	-2	17	14	29	\$53,890
43-4171	Receptionists and Information Clerks	0.2%	6	153	200	359	\$27,161
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	-1.1%	-74	358	424	708	\$39,929
43-5071	Shipping, Receiving, and Traffic Clerks	-0.2%	-4	77	152	225	\$31,327
43-5081	Stock Clerks and Order Fillers	0.5%	24	247	403	674	\$27,111
43-2011	Switchboard Operators, Including Answering Service	-2.4%	-5	11	13	19	\$29,091
11-3131	Training and Development Managers	0.4%	0	2	5	7	\$137,435
13-1151	Training and Development Specialists	0.8%	8	31	81	120	\$69,437
43-9022	Word Processors and Typists	-4.1%	-4	6	6	8	\$42,964
Education and Training							
25-9011	Audio-Visual and Multimedia Collections Specialists	0.2%	0	2	3	5	\$45,660
25-1052	Chemistry Teachers, Postsecondary	0.4%	0	4	4	8	\$90,430
27-2022	Coaches and Scouts	1.1%	13	66	104	183	\$40,193
25-1021	Computer Science Teachers, Postsecondary	0.2%	0	6	8	14	\$92,533
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	0.4%	0	2	2	4	\$77,406
25-4012	Curators	0.5%	0	3	4	7	\$58,737
11-9039	Education Administrators, All Other	1.1%	1	2	3	6	\$121,167
11-9032	Education Administrators, Elementary and Secondary School	0.2%	2	26	53	81	\$114,378
11-9033	Education Administrators, Postsecondary	0.5%	2	9	18	29	\$147,155
11-9031	Education Administrators, Preschool and Childcare Center/Program	0.5%	1	7	14	22	\$59,480

Occupation Projections by Career Cluster

SOC Code	Title of Occupation	Annual Growth Rate	Annual Growth	Annual Exits	Annual Transfers	Annual Total Openings	2018 Average Wage
25-1081	Education Teachers, Postsecondary	0.5%	1	9	11	21	\$79,693
25-9099	Education, Training, and Library Workers, All Other	0.2%	0	5	6	11	\$41,123
21-1012	Educational, Guidance, School, and Vocational Counselors	0.5%	6	40	86	132	\$63,987
25-2021	Elementary School Teachers, Except Special Education	0.1%	4	136	187	327	\$63,036
25-1032	Engineering Teachers, Postsecondary	0.8%	2	10	13	25	\$78,468
25-1123	English Language and Literature Teachers, Postsecondary	0.1%	0	10	12	22	\$71,477
25-9021	Farm and Home Management Advisors	0.0%	0	4	6	10	\$56,616
25-1125	History Teachers, Postsecondary	0.4%	0	2	3	5	\$80,857
25-9031	Instructional Coordinators	0.4%	4	45	56	105	\$67,642
27-3091	Interpreters and Translators	2.0%	1	3	4	8	\$53,862
25-2012	Kindergarten Teachers, Except Special Education	0.1%	1	18	27	46	\$60,143
25-4021	Librarians	0.1%	1	23	20	44	\$70,816
25-4031	Library Technicians	-0.9%	-2	21	15	34	\$42,332
25-1022	Mathematical Science Teachers, Postsecondary	0.1%	0	7	8	15	\$79,078
25-2022	Middle School Teachers, Except Special and Career/Technical Education	0.1%	3	96	131	230	\$63,384
25-1199	Postsecondary Teachers, All Other	0.2%	0	2	3	5	\$65,717
25-2011	Preschool Teachers, Except Special Education	0.4%	9	92	141	242	\$28,906
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	0.1%	4	85	129	218	\$65,035
25-3021	Self-Enrichment Education Teachers	0.8%	6	44	43	93	\$37,365
25-1113	Social Work Teachers, Postsecondary	0.5%	0	2	3	5	\$79,316
25-1067	Sociology Teachers, Postsecondary	0.4%	0	4	5	9	\$81,745
25-2052	Special Education Teachers, Kindergarten and Elementary School	0.0%	0	41	53	94	\$61,012
25-2054	Special Education Teachers, Secondary School	0.1%	0	10	13	23	\$64,681
25-9041	Teacher Assistants	0.2%	8	235	232	475	\$31,396
25-1194	Vocational Education Teachers, Postsecondary	-0.3%	-1	10	12	21	\$62,707
Finance							
13-2011	Accountants and Auditors	0.5%	30	173	399	602	\$78,117
43-3011	Bill and Account Collectors	-0.9%	-9	38	79	108	\$39,186
13-2031	Budget Analysts	0.4%	1	4	8	13	\$72,490
13-1031	Claims Adjusters, Examiners, and Investigators	-1.3%	-6	10	26	30	\$63,444
13-2041	Credit Analysts	0.6%	7	29	88	124	\$68,008
13-2051	Financial Analysts	0.6%	20	70	240	330	\$93,739
43-3099	Financial Clerks, All Other	0.7%	2	8	17	27	\$53,210
11-3031	Financial Managers	1.4%	30	47	119	196	\$167,113
13-2099	Financial Specialists, All Other	0.6%	5	21	45	71	\$80,948
43-9041	Insurance Claims and Policy Processing Clerks	-0.3%	-3	36	60	93	\$40,541

Occupation Projections by Career Cluster

SOC Code	Title of Occupation	Annual Growth Rate	Annual Growth	Annual Exits	Annual Transfers	Annual Total Openings	2018 Average Wage
41-3021	Insurance Sales Agents	0.1%	1	51	83	135	\$60,451
13-2053	Insurance Underwriters	-1.6%	-2	3	8	9	\$67,333
43-4131	Loan Interviewers and Clerks	1.0%	8	31	53	92	\$38,833
13-2072	Loan Officers	0.8%	6	20	50	76	\$70,098
13-2052	Personal Financial Advisors	0.7%	4	12	28	44	\$126,880
41-3031	Securities, Commodities, and Financial Services Sales Agents	0.5%	11	61	163	235	\$87,390
13-2082	Tax Preparers	-0.2%	0	7	10	17	\$62,231
43-3071	Tellers	-1.2%	-19	74	108	163	\$30,674
Government and Public Administration							
45-2011	Agricultural Inspectors	-0.4%	-1	7	17	23	\$45,127
13-1041	Compliance Officers	0.5%	6	34	72	112	\$77,670
47-4011	Construction and Building Inspectors	0.3%	2	30	38	70	\$60,455
43-4031	Court, Municipal, and License Clerks	0.6%	5	35	37	77	\$34,883
43-4061	Eligibility Interviewers, Government Programs	0.5%	1	7	10	18	\$35,779
13-2061	Financial Examiners	0.9%	6	14	37	57	\$85,611
29-9011	Occupational Health and Safety Specialists	0.6%	3	12	17	32	\$75,584
29-9012	Occupational Health and Safety Technicians	0.0%	0	1	2	3	\$55,747
11-9131	Postmasters and Mail Superintendents	-1.1%	0	1	2	3	\$81,078
19-3051	Urban and Regional Planners	1.2%	3	4	17	24	\$64,117
Health Sciences							
29-9091	Athletic Trainers	1.9%	2	2	4	8	\$47,926
29-2031	Cardiovascular Technologists and Technicians	1.6%	5	8	10	23	\$57,738
29-1011	Chiropractors	0.4%	0	2	1	3	\$97,065
31-9091	Dental Assistants	0.7%	6	40	56	102	\$41,061
29-2021	Dental Hygienists	0.7%	5	28	17	50	\$78,546
29-1021	Dentists, General	0.5%	2	7	3	12	\$264,441
29-2032	Diagnostic Medical Sonographers	2.5%	5	5	7	17	\$72,230
29-2051	Dietetic Technicians	1.5%	2	3	6	11	\$32,027
29-1031	Dietitians and Nutritionists	1.5%	3	7	7	17	\$64,587
29-1128	Exercise Physiologists	1.4%	1	2	3	6	\$43,803
29-1062	Family and General Practitioners	1.0%	5	8	6	19	\$214,174
29-1199	Health Diagnosing and Treating Practitioners, All Other	0.6%	0	2	1	3	\$87,295
29-2099	Health Technologists and Technicians, All Other	2.0%	4	5	7	16	\$48,904
29-9099	Healthcare Practitioners and Technical Workers, All Other	1.6%	2	2	4	8	\$59,747
31-9099	Healthcare Support Workers, All Other	-0.3%	0	2	2	4	\$50,824
31-1011	Home Health Aides	3.1%	59	105	114	278	\$29,557
29-1063	Internists, General	0.7%	1	2	1	4	\$182,954
29-2061	Licensed Practical and Licensed Vocational Nurses	1.2%	30	85	106	221	\$52,860
29-2035	Magnetic Resonance Imaging Technologists	1.6%	3	5	6	14	\$75,083

Occupation Projections by Career Cluster

SOC Code	Title of Occupation	Annual Growth Rate	Annual Growth	Annual Exits	Annual Transfers	Annual Total Openings	2018 Average Wage
11-9111	Medical and Health Services Managers	1.7%	20	29	65	114	\$131,259
31-9092	Medical Assistants	2.1%	59	113	205	377	\$33,347
31-9093	Medical Equipment Preparers	1.6%	3	9	12	24	\$39,701
29-2071	Medical Records and Health Information Technicians	1.3%	8	18	21	47	\$45,392
19-1042	Medical Scientists, Except Epidemiologists	0.9%	4	6	31	41	\$115,066
43-6013	Medical Secretaries	1.6%	78	252	298	628	\$37,110
31-9094	Medical Transcriptionists	-0.5%	-1	7	9	15	\$33,221
29-2033	Nuclear Medicine Technologists	1.7%	1	2	2	5	\$82,402
29-1151	Nurse Anesthetists	1.7%	3	3	6	12	\$187,862
29-1171	Nurse Practitioners	2.7%	24	18	30	72	\$108,337
31-1014	Nursing Assistants	1.3%	66	284	308	658	\$30,778
29-1064	Obstetricians and Gynecologists	0.7%	1	2	1	4	\$268,528
29-1122	Occupational Therapists	1.5%	8	11	17	36	\$86,019
29-2081	Opticians, Dispensing	0.9%	4	18	18	40	\$36,770
29-1041	Optometrists	0.6%	1	2	1	4	\$116,215
29-1065	Pediatricians, General	1.0%	2	4	3	9	\$211,372
29-1051	Pharmacists	0.2%	2	25	23	50	\$125,402
29-2052	Pharmacy Technicians	0.8%	12	44	79	135	\$34,467
31-9097	Phlebotomists	2.4%	14	21	39	74	\$39,123
31-2022	Physical Therapist Aides	2.3%	6	12	22	40	\$26,047
31-2021	Physical Therapist Assistants	2.4%	9	17	32	58	\$32,815
29-1123	Physical Therapists	2.0%	20	18	24	62	\$93,883
29-1071	Physician Assistants	2.9%	17	9	24	50	\$105,303
29-1069	Physicians and Surgeons, All Other	1.1%	21	32	25	78	\$216,605
29-1081	Podiatrists	0.8%	1	2	3	6	\$171,804
29-1124	Radiation Therapists	1.8%	1	1	2	4	\$96,609
29-2034	Radiologic Technologists	1.5%	12	20	24	56	\$60,553
29-1125	Recreational Therapists	1.1%	1	2	3	6	\$46,321
29-1141	Registered Nurses	1.8%	241	368	340	949	\$74,797
29-1126	Respiratory Therapists	3.2%	15	13	12	40	\$67,951
29-1127	Speech-Language Pathologists	2.2%	15	14	24	53	\$81,440
29-1067	Surgeons	0.5%	1	3	2	6	\$277,284
29-2055	Surgical Technologists	1.7%	6	10	18	34	\$47,251
29-1131	Veterinarians	1.0%	3	5	6	14	\$115,643
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	1.0%	3	18	35	56	\$27,749
29-2056	Veterinary Technologists and Technicians	1.0%	4	12	22	38	\$34,673
Hospitality and Tourism							
39-3091	Amusement and Recreation Attendants	1.3%	22	181	211	414	\$21,135
39-2011	Animal Trainers	1.0%	1	6	10	17	\$35,880
39-6011	Baggage Porters and Bellhops	1.1%	0	2	3	5	\$26,800

Occupation Projections by Career Cluster

SOC Code	Title of Occupation	Annual Growth Rate	Annual Growth	Annual Exits	Annual Transfers	Annual Total Openings	2018 Average Wage
51-3011	Bakers	0.4%	2	22	30	54	\$26,094
35-3011	Bartenders	0.5%	15	140	386	541	\$25,306
35-1011	Chefs and Head Cooks	1.1%	6	18	59	83	\$59,330
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	1.4%	169	1005	1240	2414	\$20,832
39-6012	Concierges	0.7%	0	2	4	6	\$28,020
35-2011	Cooks, Fast Food	-1.2%	-8	37	61	90	\$21,451
35-2012	Cooks, Institution and Cafeteria	0.0%	0	156	260	416	\$32,621
35-2014	Cooks, Restaurant	1.7%	90	277	460	827	\$27,432
35-2015	Cooks, Short Order	0.3%	0	7	12	19	\$22,233
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	0.2%	3	187	173	363	\$21,690
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	0.8%	12	123	132	267	\$19,393
35-9021	Dishwashers	0.1%	2	128	144	274	\$21,350
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	0.7%	27	155	389	571	\$41,830
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	0.6%	6	47	79	132	\$45,829
35-9099	Food Preparation and Serving Related Workers, All Other	0.6%	1	12	12	25	\$25,055
35-2021	Food Preparation Workers	1.0%	26	200	272	498	\$22,360
35-3041	Food Servers, Nonrestaurant	1.3%	15	83	94	192	\$24,702
11-9051	Food Service Managers	0.9%	7	24	66	97	\$76,042
39-3012	Gaming and Sports Book Writers and Runners	0.0%	0	4	6	10	\$30,721
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	0.8%	13	195	205	413	\$19,850
43-4081	Hotel, Motel, and Resort Desk Clerks	-0.1%	0	41	85	126	\$25,657
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	0.5%	48	588	678	1314	\$28,525
11-9081	Lodging Managers	0.8%	1	2	6	9	\$76,247
37-2012	Maids and Housekeeping Cleaners	0.5%	12	181	163	356	\$23,936
39-9032	Recreation Workers	1.1%	12	67	119	198	\$28,427
41-3041	Travel Agents	-1.2%	-2	8	10	16	\$41,797
27-2023	Umpires, Referees, and Other Sports Officials	0.9%	2	10	15	27	\$30,960
35-3031	Waiters and Waitresses	0.4%	34	592	1045	1671	\$23,688
Human Services							
21-1021	Child, Family, and School Social Workers	0.6%	7	38	86	131	\$40,380
39-9011	Childcare Workers	0.9%	14	116	118	248	\$22,296
21-2011	Clergy	1.4%	1	3	4	8	\$56,151
19-3031	Clinical, Counseling, and School Psychologists	1.1%	8	16	34	58	\$78,850
21-1099	Community and Social Service Specialists, All Other	0.7%	4	20	42	66	\$41,683

Occupation Projections by Career Cluster

SOC Code	Title of Occupation	Annual Growth Rate	Annual Growth	Annual Exits	Annual Transfers	Annual Total Openings	2018 Average Wage
21-1094	Community Health Workers	0.9%	2	7	14	23	\$40,937
13-2071	Credit Counselors	0.3%	0	2	6	8	\$52,361
39-1021	First-Line Supervisors of Personal Service Workers	1.3%	12	40	57	109	\$45,465
39-9031	Fitness Trainers and Aerobics Instructors	1.5%	23	95	170	288	\$38,443
39-4021	Funeral Attendants	0.9%	2	19	14	35	\$35,325
11-9061	Funeral Service Managers	1.0%	1	2	3	6	\$93,529
39-5012	Hairdressers, Hairstylists, and Cosmetologists	1.3%	39	191	201	431	\$35,812
21-1091	Health Educators	1.0%	4	13	26	43	\$67,308
21-1022	Healthcare Social Workers	1.6%	10	18	42	70	\$55,873
51-6011	Laundry and Dry-Cleaning Workers	0.6%	4	41	47	92	\$23,869
39-5092	Manicurists and Pedicurists	1.6%	9	32	33	74	\$24,898
21-1013	Marriage and Family Therapists	0.8%	2	8	17	27	\$51,534
21-1023	Mental Health and Substance Abuse Social Workers	1.5%	6	12	27	45	\$50,703
39-9021	Personal Care Aides	3.0%	182	459	407	1048	\$23,844
21-1015	Rehabilitation Counselors	1.1%	6	17	38	61	\$34,815
39-5093	Shampooers	1.5%	6	21	22	49	\$19,559
11-9151	Social and Community Service Managers	1.0%	9	28	55	92	\$69,233
21-1093	Social and Human Service Assistants	1.2%	11	38	74	123	\$33,592
21-1029	Social Workers, All Other	0.2%	0	4	9	13	\$60,781
51-6052	Tailors, Dressmakers, and Custom Sewers	0.0%	0	7	4	11	\$29,683
Information Technology							
15-1143	Computer Network Architects	0.1%	0	8	36	44	\$126,987
15-1152	Computer Network Support Specialists	0.5%	2	9	30	41	\$60,839
15-1131	Computer Programmers	-1.2%	-13	18	60	65	\$80,262
15-1121	Computer Systems Analysts	0.2%	5	50	139	194	\$96,462
15-1151	Computer User Support Specialists	0.5%	9	36	126	171	\$58,780
15-1141	Database Administrators	0.7%	6	18	47	71	\$92,460
15-1122	Information Security Analysts	2.3%	15	10	38	63	\$106,781
15-1142	Network and Computer Systems Administrators	0.1%	2	24	75	101	\$80,987
15-1132	Software Developers, Applications	1.8%	94	75	304	473	\$106,730
15-1134	Web Developers	0.8%	4	8	28	40	\$72,065
Law, Public Safety, Corrections, and Security							
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	0.4%	0	2	2	4	\$65,931
33-3011	Bailiffs	0.1%	0	3	4	7	\$32,158
33-9091	Crossing Guards	0.4%	2	53	21	76	\$33,278
33-3021	Detectives and Criminal Investigators	0.2%	0	2	4	6	\$89,929
29-2041	Emergency Medical Technicians and Paramedics	1.0%	14	25	68	107	\$40,725
33-2021	Fire Inspectors and Investigators	0.6%	0	4	4	8	\$58,824

SOC Code	Title of Occupation	Annual Growth Rate	Annual Growth	Annual Exits	Annual Transfers	Annual Total Openings	2018 Average Wage
33-2011	Firefighters	0.9%	4	8	21	33	\$48,802
33-1012	First-Line Supervisors of Police and Detectives	0.7%	3	10	16	29	\$98,866
33-1099	First-Line Supervisors of Protective Service Workers, All Other	0.2%	1	13	22	36	\$43,826
19-4092	Forensic Science Technicians	1.3%	0	1	3	4	\$50,646
23-1023	Judges, Magistrate Judges, and Magistrates	0.6%	1	3	3	7	\$140,677
43-6012	Legal Secretaries	-3.0%	-27	46	55	74	\$52,268
23-2099	Legal Support Workers, All Other	-0.7%	-5	23	38	56	\$56,135
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	1.3%	5	54	45	104	\$22,819
23-2011	Paralegals and Legal Assistants	0.6%	7	43	94	144	\$57,294
33-3041	Parking Enforcement Workers	-4.1%	-2	1	2	1	\$37,912
33-3051	Police and Sheriff's Patrol Officers	0.8%	15	46	89	150	\$69,998
43-5031	Police, Fire, and Ambulance Dispatchers	0.9%	2	10	17	29	\$44,976
33-9099	Protective Service Workers, All Other	0.5%	2	51	43	96	\$26,805
33-9032	Security Guards	0.2%	6	179	273	458	\$28,374
Manufacturing							
51-3021	Butchers and Meat Cutters	0.8%	1	7	14	22	\$39,140
51-7011	Cabinetmakers and Bench Carpenters	0.6%	1	8	11	20	\$45,299
51-9011	Chemical Equipment Operators and Tenders	0.1%	1	21	75	97	\$60,988
19-4031	Chemical Technicians	0.2%	2	12	53	67	\$62,764
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	0.7%	0	2	5	7	\$43,382
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	0.0%	0	3	6	9	\$42,145
49-2011	Computer, Automated Teller, and Office Machine Repairers	0.4%	1	8	22	31	\$46,519
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	-0.6%	0	2	6	8	\$35,700
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	0.2%	0	4	7	11	\$38,895
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	-0.8%	-2	8	15	21	\$33,991
17-3012	Electrical and Electronics Drafters	0.1%	0	3	6	9	\$65,475
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	0.1%	0	5	18	23	\$64,966
17-3029	Engineering Technicians, Except Drafters, All Other	-0.1%	0	2	5	7	\$51,383
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	-1.0%	-2	6	21	25	\$38,545
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	0.5%	10	58	111	179	\$72,117
51-1011	First-Line Supervisors of Production and Operating Workers	0.1%	2	44	98	144	\$70,954

Occupation Projections by Career Cluster

SOC Code	Title of Occupation	Annual Growth Rate	Annual Growth	Annual Exits	Annual Transfers	Annual Total Openings	2018 Average Wage
51-3099	Food Processing Workers, All Other	-0.1%	0	14	25	39	\$28,955
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	-0.7%	0	2	3	5	\$28,229
51-9198	Helpers--Production Workers	0.4%	2	23	41	66	\$29,377
49-9031	Home Appliance Repairers	0.8%	1	4	6	11	\$41,569
17-3026	Industrial Engineering Technicians	-0.3%	0	1	2	3	\$53,862
49-9041	Industrial Machinery Mechanics	0.6%	7	36	68	111	\$57,045
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	-1.8%	-13	29	61	77	\$41,026
49-9099	Installation, Maintenance, and Repair Workers, All Other	0.7%	3	15	27	45	\$40,335
53-7063	Machine Feeders and Offbearers	0.8%	2	10	16	28	\$29,085
51-4041	Machinists	0.3%	1	12	24	37	\$55,211
49-9071	Maintenance and Repair Workers, General	0.7%	26	132	232	390	\$41,433
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	-0.1%	-6	229	461	684	\$26,426
17-3013	Mechanical Drafters	-0.3%	-1	6	12	17	\$58,361
51-9082	Medical Appliance Technicians	0.9%	0	2	3	5	\$40,690
49-9062	Medical Equipment Repairers	0.7%	1	6	8	15	\$66,362
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	0.2%	1	9	25	35	\$46,748
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	1.2%	1	4	7	12	\$34,769
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	-0.7%	-1	4	9	12	\$40,299
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	0.7%	2	9	14	25	\$41,874
51-9111	Packaging and Filling Machine Operators and Tenders	0.0%	0	38	61	99	\$33,005
51-9122	Painters, Transportation Equipment	0.5%	1	4	10	15	\$39,965
51-9151	Photographic Process Workers and Processing Machine Operators	-6.0%	-2	1	3	2	\$33,410
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	0.0%	0	1	3	4	\$34,433
49-9069	Precision Instrument and Equipment Repairers, All Other	0.4%	0	2	3	5	\$56,488
43-5061	Production, Planning, and Expediting Clerks	0.3%	2	24	50	76	\$52,981
49-2098	Security and Fire Alarm Systems Installers	0.9%	2	5	16	23	\$54,082
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	0.9%	1	2	7	10	\$40,561
51-6031	Sewing Machine Operators	-1.9%	-3	10	9	16	\$28,526
51-3023	Slaughterers and Meat Packers	-0.1%	0	16	32	48	\$28,284
51-6093	Upholsterers	0.4%	0	1	1	2	\$46,089
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	0.6%	2	12	18	32	\$29,056
51-4121	Welders, Cutters, Solderers, and Brazers	0.3%	2	20	64	86	\$52,180
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	0.7%	0	2	2	4	\$38,871

Occupation Projections by Career Cluster

SOC Code	Title of Occupation	Annual Growth Rate	Annual Growth	Annual Exits	Annual Transfers	Annual Total Openings	2018 Average Wage
Marketing, Sales, and Service							
41-3011	Advertising Sales Agents	-0.7%	-2	10	32	40	\$57,809
41-2011	Cashiers	-0.3%	-47	1212	1350	2515	\$22,219
41-2021	Counter and Rental Clerks	0.6%	8	69	105	182	\$33,451
41-9011	Demonstrators and Product Promoters	-0.2%	0	31	21	52	\$28,895
41-1012	First-Line Supervisors of Non-Retail Sales Workers	0.2%	2	30	59	91	\$83,937
41-1011	First-Line Supervisors of Retail Sales Workers	0.1%	6	181	394	581	\$47,556
13-1161	Market Research Analysts and Marketing Specialists	1.6%	36	54	181	271	\$82,891
11-2021	Marketing Managers	0.6%	6	22	74	102	\$163,084
27-1026	Merchandise Displayers and Window Trimmers	-0.1%	-1	24	50	73	\$27,742
11-9141	Property, Real Estate, and Community Association Managers	0.6%	7	40	43	90	\$64,975
27-3031	Public Relations Specialists	0.5%	5	28	71	104	\$60,389
41-9022	Real Estate Sales Agents	0.7%	8	48	53	109	\$50,099
41-2031	Retail Salespersons	0.1%	16	852	1313	2181	\$26,325
41-9099	Sales and Related Workers, All Other	0.0%	0	8	17	25	\$50,612
11-2022	Sales Managers	0.4%	4	20	68	92	\$174,935
41-3099	Sales Representatives, Services, All Other	0.8%	26	97	318	441	\$67,288
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	0.3%	8	88	216	312	\$65,170
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	-0.1%	-1	28	69	96	\$103,280
Science, Technology, Engineering, and Mathematics							
11-9041	Architectural and Engineering Managers	0.2%	1	6	20	27	\$157,489
19-1021	Biochemists and Biophysicists	0.0%	0	4	19	23	\$93,528
17-2041	Chemical Engineers	0.5%	3	12	24	39	\$120,281
19-2031	Chemists	-0.2%	-3	23	103	123	\$105,565
19-1031	Conservation Scientists	0.3%	0	2	8	10	\$55,300
19-3011	Economists	0.7%	0	1	2	3	\$86,847
17-2071	Electrical Engineers	0.4%	2	13	29	44	\$108,896
19-2041	Environmental Scientists and Specialists, Including Health	0.6%	2	7	35	44	\$59,890
19-2042	Geoscientists, Except Hydrologists and Geographers	0.3%	0	2	10	12	\$80,572
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	0.3%	0	2	5	7	\$107,040
17-2112	Industrial Engineers	0.5%	2	10	23	35	\$94,590
19-4099	Life, Physical, and Social Science Technicians, All Other	0.6%	0	1	3	4	\$51,363
19-2032	Materials Scientists	0.2%	0	1	6	7	\$88,628
17-2141	Mechanical Engineers	0.2%	2	12	33	47	\$106,219
19-1022	Microbiologists	0.1%	0	3	15	18	\$62,473

Occupation Projections by Career Cluster

SOC Code	Title of Occupation	Annual Growth Rate	Annual Growth	Annual Exits	Annual Transfers	Annual Total Openings	2018 Average Wage
19-3099	Social Scientists and Related Workers, All Other	0.0%	0	2	6	8	\$67,992
19-3022	Survey Researchers	-0.8%	-1	3	7	9	\$61,892
Transportation, Distribution, and Logistics							
49-3011	Aircraft Mechanics and Service Technicians	1.0%	5	12	24	41	\$62,254
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	1.1%	1	4	6	11	\$29,240
53-6031	Automotive and Watercraft Service Attendants	0.3%	1	9	22	32	\$24,550
49-3021	Automotive Body and Related Repairers	0.4%	2	14	27	43	\$41,233
49-3023	Automotive Service Technicians and Mechanics	-0.1%	-2	56	146	200	\$44,263
49-2091	Avionics Technicians	1.0%	1	2	4	7	\$59,678
43-3021	Billing and Posting Clerks	0.8%	20	97	159	276	\$42,784
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	0.6%	4	20	47	71	\$49,449
53-3022	Bus Drivers, School or Special Client	0.7%	14	161	101	276	\$35,727
53-3021	Bus Drivers, Transit and Intercity	0.6%	3	38	24	65	\$41,030
53-5021	Captains, Mates, and Pilots of Water Vessels	0.4%	0	2	5	7	\$74,793
43-5011	Cargo and Freight Agents	1.5%	2	4	7	13	\$42,788
53-7061	Cleaners of Vehicles and Equipment	0.5%	5	52	100	157	\$24,473
53-2012	Commercial Pilots	0.4%	1	9	23	33	\$97,417
43-5021	Couriers and Messengers	-0.2%	-1	13	19	31	\$30,420
43-5032	Dispatchers, Except Police, Fire, and Ambulance	0.3%	2	26	44	72	\$45,762
53-3032	Heavy and Tractor-Trailer Truck Drivers	0.5%	22	195	344	561	\$44,164
53-7051	Industrial Truck and Tractor Operators	1.0%	20	62	172	254	\$39,627
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	0.3%	14	230	478	722	\$28,556
53-3033	Light Truck or Delivery Services Drivers	0.4%	12	116	205	333	\$35,711
53-4011	Locomotive Engineers	-1.2%	-1	2	5	6	\$75,032
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	0.5%	2	15	34	51	\$50,473
49-3051	Motorboat Mechanics and Service Technicians	1.0%	2	6	9	17	\$39,504
49-3052	Motorcycle Mechanics	0.8%	0	1	1	2	\$31,039
53-6021	Parking Lot Attendants	0.7%	2	18	35	55	\$23,561
53-3041	Taxi Drivers and Chauffeurs	1.6%	12	42	43	97	\$27,327
49-3093	Tire Repairers and Changers	-0.7%	-2	7	18	23	\$32,057
11-3071	Transportation, Storage, and Distribution Managers	0.5%	2	8	22	32	\$132,318

Industry Projections

Delaware is projected to add 24,990 new jobs over the 2018-2028 projection period. The average annual job growth for Delaware during the ten-year projection period is expected to be 0.5 percent per year. This is less than the rate that the US Bureau of Labor Statistics (BLS) is projecting for the nation at 0.6 percent per year. Delaware Goods Producing industries are projected to add 1,470 jobs, while the majority of new jobs are expected in the Service Providing sector with 22,390. Self Employed and Unpaid Family Workers are expected to add 1,130 new jobs.

Agriculture, Forestry, Fishing and Hunting is expected to lose 150 jobs over the next ten years, while **Mining** is projected to lose 30 jobs. **Mining** is projected to be the fastest shrinking sector in percent terms, however, this a very small industry sector. Together, these two industry sectors make up the Natural Resources and Mining supersector.

The **Construction** supersector is expected to add 1,680 jobs over the decade with an average annual growth rate of 0.7 percent. This supersector is projected to have the third most in terms of net new jobs. The projected job growth is being driven by job increases in the *Specialty Trade Contractors* and *Construction of Buildings* subsectors.



The **Manufacturing** supersector is estimated to have little change over the projection period decreasing by only 30 jobs. *Computer and Electronic Product Manufacturing* and *Beverage and Tobacco Product Manufacturing* are estimated to see the largest gains in Manufacturing, while the biggest losses are estimated to come from *Food Manufacturing* and *Plastics and Rubber Products Manufacturing*.

The Trade, Transportation, and Utilities supersector is comprised of **Wholesale Trade, Retail Trade, Transportation and Warehousing** and **Utilities**. **Wholesale Trade** is estimated to lose 60 jobs over the 2018-2028 projection period. **Retail Trade** is estimated to gain 60 jobs over the projection period. **Retail Trade** jobs are projected to increase in such areas as *Food and Beverage Stores*, and *Electronics and Appliance Stores* and projected to be largely offset by losses in such areas as *General Merchandise Stores* and *Sporting Goods, Hobby, Book, and Music Stores*. **Transportation and Warehousing** is expected to gain 960 net jobs over the projection period, an annual average increase of 0.6 percent. These gains are driven by *Warehousing and Storage* and *Support Activities for Transportation*. **Utilities** is estimated to decline by 60 jobs over the projection period.

Information is estimated to lose 360 jobs over the decade and with an annual average decline of 0.9 percent it is projected to be the second fastest shrinking industry sector. It is predicted that Information will continue its long-run decline that started in 2001.

The Financial Activities supersector is comprised of the **Finance and Insurance** and the **Real Estate and Rental and Leasing** sector. **Finance and Insurance** is projected to add 1,250 jobs over the ten-year projection period. Most jobs in this sector will be created in *Credit Intermediation and Related Activities*. In the **Real Estate and Rental and Leasing** sector, there are estimated to be 290 new jobs created.

In the Professional & Business Services supersector, **Professional, Scientific, and Technical Services** is expected to gain 420 jobs. **Management of Companies and Enterprises** is expected to increase by 320 jobs, and **Administrative and Support and Waste Management and Remediation Services** is expected to add 340 jobs over the projection period.

The Education and Health Services supersector is comprised of **Educational Services** and **Health Care and Social Assistance**. **Educational Services** is expected to gain 370 jobs during the projected period. **Health Care and Social Assistance**, Delaware's largest industry in term of employment, is projected to add the most jobs over the ten-year period. The 12,640 net new jobs will represent one-half of all projected jobs to be created. Growing at an annual average rate of 1.6 percent per year, it is also projected to be the fastest growing sector in Delaware.

In the Leisure and Hospitality supersector, **Arts, Entertainment, and Recreation** is projected to add 1,160 jobs over the decade and to be the second fastest growing sector with an annual average growth rate of 1.1 percent. **Accommodation and Food Services** is second in terms of projected job gains with 3,440 new jobs over the decade; and with a projected annual average growth rate of 0.8 percent, the third fastest growing industry sector in terms of percent growth.

Other Services, Except Public Administration is expected to add 920 jobs over the projection period with an average annual growth rate of 0.5 percent. Projected job gains in **Other Services, Except Public Administration** is being driven mainly by *Personal and Laundry Services*.

Government is estimated to add 700 jobs over the 10-year projection period. *State Government, Excluding Education and Hospitals* is expected to add 400 new jobs, while *Local government, Excluding Education and Hospitals* is to add 520 new jobs. *Federal Government, Excluding Postal Service* is projected to lose 220 jobs.

Projected Net Job Growth by Industry Sector, 2028

Industry Sector	Net Job Growth
Health Care and Social Assistance	12,640
Accommodation and Food Services	3,440
Construction	1,680
Finance and Insurance	1,250
Arts, Entertainment, and Recreation	1,160
Self-Employed	1,130
Transportation and Warehousing	960
Other Services, Except Public Administration	920
Government	700
Professional and Technical Services	420
Educational Services	370
Administrative and Waste Services	340
Management of Companies and Enterprises	320
Real Estate and Rental and Leasing	290
Retail Trade	60
Manufacturing	-30
Mining	-30
Utilities	-60
Wholesale Trade	-60
Agriculture, Forestry, and Fishing	-150
Information	-360

Projected Annual Rate of Growth by Industry Sector, 2018–2028



Table 3: Industry Projections

NAICS	Industry	2018	2028	2018-2028 Change	2018-2028 Annual Growth
	Total Employment, All Jobs	488,580	513,570	24,990	0.5%
	Total Self-Employed and Unpaid Family Workers, Primary Job	19,870	21,000	1,130	0.6%
11	Agriculture, Forestry, Fishing	5,350	5,200	-150	-0.3%
111	Crop production	2,890	2,810	-80	-0.3%
112	Animal production	2,200	2,140	-60	-0.3%
115	Support activities for agriculture and forestry	260	250	-10	-0.4%
21	Mining	70	40	-30	-5.4%
22	Utilities	2,120	2,060	-60	-0.3%
23	Construction	22,250	23,930	1,680	0.7%
236	Construction of buildings	4,900	5,750	850	1.6%
237	Heavy and civil engineering construction	2,780	2,280	-500	-2.0%
238	Specialty trade contractors	14,570	15,900	1,330	0.9%
31-33	Manufacturing	26,990	26,960	-30	0.0%
311	Food manufacturing	9,840	9,650	-190	-0.2%
312	Beverage and tobacco product manufacturing	470	580	110	2.1%
314	Textile product mills	100	80	-20	-2.2%
315	Apparel manufacturing	80	30	-50	-9.3%
321	Wood product manufacturing	310	320	10	0.3%
322	Paper manufacturing	800	750	-50	-0.6%
323	Printing and related support activities	440	370	-70	-1.7%
324	Petroleum and coal products manufacturing	720	780	60	0.8%
325	Chemical manufacturing	2,730	2,800	70	0.3%
326	Plastics and rubber products manufacturing	1,730	1,620	-110	-0.7%
327	Nonmetallic mineral product manufacturing	650	710	60	0.9%
331	Primary metal manufacturing	200	190	-10	-0.5%
332	Fabricated metal product manufacturing	1,660	1,720	60	0.4%
333	Machinery manufacturing	710	750	40	0.5%
334	Computer and electronic product manufacturing	2,970	3,100	130	0.4%
335	Electrical equipment and appliance manufacturing	790	850	60	0.7%
336	Transportation equipment manufacturing	770	700	-70	-0.9%
337	Furniture and related product manufacturing	640	590	-50	-0.8%
339	Miscellaneous manufacturing	810	780	-30	-0.4%

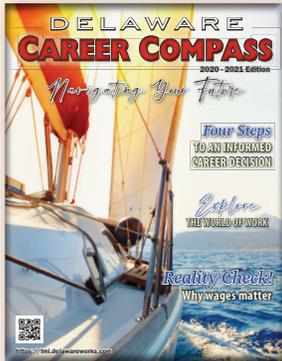
Industry Projections

NAICS	Industry	2018	2028	2018-2028 Change	2018-2028 Annual Growth
42	Wholesale Trade	10,800	10,740	-60	-0.1%
423	Merchant wholesalers, durable goods	5,800	6,390	590	1.0%
424	Merchant wholesalers, nondurable goods	3,690	3,200	-490	-1.4%
425	Electronic markets and agents and brokers	1,310	1,150	-160	-1.3%
44-45	Retail Trade	53,150	53,210	60	0.0%
441	Motor vehicle and parts dealers	7,210	7,300	90	0.1%
442	Furniture and home furnishings stores	2,190	2,300	110	0.5%
443	Electronics and appliance stores	1,660	1,870	210	1.2%
444	Building material and garden supply stores	5,090	5,180	90	0.2%
445	Food and beverage stores	9,960	10,450	490	0.5%
446	Health and personal care stores	3,750	3,820	70	0.2%
447	Gasoline stations	2,860	2,800	-60	-0.2%
448	Clothing and clothing accessories stores	5,440	5,300	-140	-0.3%
451	Sporting goods, hobby, book and music stores	1,870	1,630	-240	-1.4%
452	General merchandise stores	8,950	8,500	-450	-0.5%
453	Miscellaneous store retailers	2,800	2,750	-50	-0.2%
454	Nonstore retailers	1,370	1,310	-60	-0.4%
48-49	Transportation and Warehousing	16,170	17,130	960	0.6%
481	Air transportation	180	200	20	1.1%
482	Rail transportation	1,320	1,150	-170	-1.4%
484	Truck transportation	2,430	2,600	170	0.7%
485	Transit and ground passenger transportation	1,950	2,050	100	0.5%
488	Support activities for transportation	1,980	2,300	320	1.5%
491	Postal service	1,990	1,950	-40	-0.2%
492	Couriers and messengers	1,560	1,680	120	0.7%
493	Warehousing and storage	4,760	5,200	440	0.9%
51	Information	4,140	3,780	-360	-0.9%
511	Publishing industries, except Internet	820	800	-20	-0.2%
512	Motion picture and sound recording industries	440	430	-10	-0.2%
515	Broadcasting, except Internet	290	260	-30	-1.1%
517	Telecommunications	1,820	2,010	190	1.0%
518	Data processing, hosting and related services	480	60	-420	-18.8%
519	Other information services	290	220	-70	-2.7%
52	Finance and Insurance	42,250	43,500	1,250	0.3%
522	Credit intermediation and related activities	27,970	29,080	1,110	0.4%
523	Securities, commodity contracts, investments	8,620	9,000	380	0.4%
524	Insurance carriers and related activities	5,640	5,390	-250	-0.5%
525	Funds, trusts, and other financial vehicles	20	30	10	4.1%

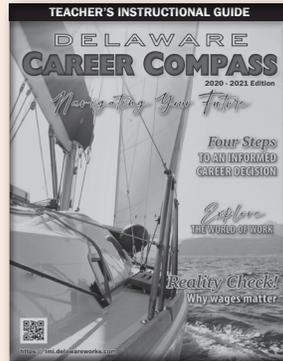
NAICS	Industry	2018	2028	2018-2028 Change	2018-2028 Annual Growth
53	Real Estate and Rental and Leasing	5,430	5,720	290	0.5%
531	Real estate	4,160	4,340	180	0.4%
532	Rental and leasing services	1,270	1,380	110	0.8%
54	Professional and Technical Services	27,120	27,540	420	0.2%
55	Management of Companies and Enterprises	7,580	7,900	320	0.4%
56	Administrative and Waste Services	29,260	29,600	340	0.1%
561	Administrative and support services	27,690	28,000	310	0.1%
562	Waste management and remediation services	1,570	1,600	30	0.2%
61	Educational Services	42,630	43,000	370	0.1%
62	Health Care and Social Assistance	71,610	84,250	12,640	1.6%
621	Ambulatory health care services	21,290	25,530	4,240	1.8%
622	Hospitals	25,020	30,170	5,150	1.9%
623	Nursing and residential care facilities	12,380	13,950	1,570	1.2%
624	Social assistance	12,920	14,600	1,680	1.2%
71	Arts, Entertainment, and Recreation	9,730	10,890	1,160	1.1%
711	Performing arts and spectator sports	1,090	1,100	10	0.1%
712	Museums, historical sites, zoos, and parks	900	890	-10	-0.1%
713	Amusements, gambling, and recreation	7,740	8,900	1,160	1.4%
72	Accommodation and Food Services	43,960	47,400	3,440	0.8%
721	Accommodation	5,440	5,840	400	0.7%
722	Food services and drinking places	38,520	41,560	3,040	0.8%
81	Other Services, Except Public Administration	19,140	20,060	920	0.5%
811	Repair and maintenance	3,500	3,520	20	0.1%
812	Personal and laundry services	4,890	5,610	720	1.4%
813	Membership associations and organizations	10,380	10,480	100	0.1%
814	Private households	370	450	80	2.0%
	Government	28,960	29,660	700	0.2%
	Federal government, excluding postal service	3,680	3,460	-220	-0.6%
	State government, excluding education and hospitals	17,800	18,200	400	0.2%
	Local government, excluding education and hospitals	7,480	8,000	520	0.7%

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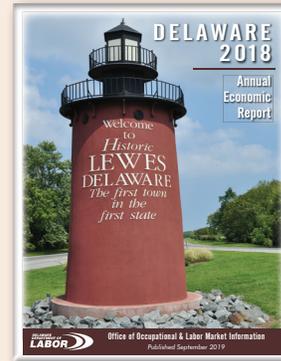
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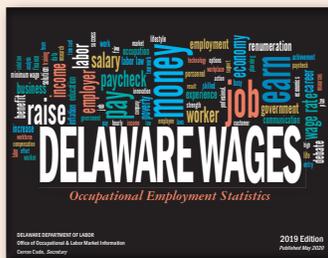
The Delaware Career Compass is a step-by-step guide to career planning for students. Learn about yourself, the world of work, and how you can reach your goals.



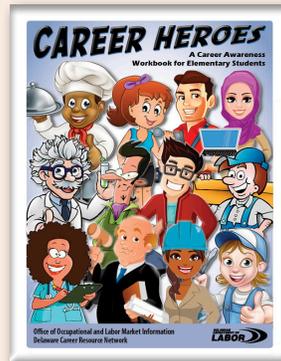
The Teacher's Guide is a companion to the Delaware Career Compass and is designed to supplement and enhance the use of the Compass in the classroom.



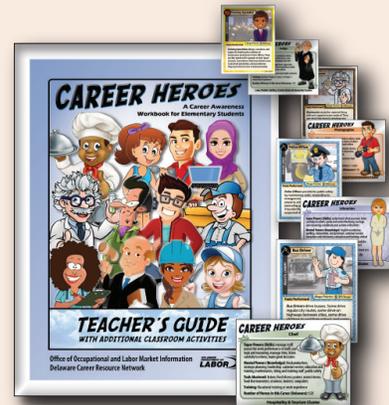
The Delaware Annual Economic Report is a comprehensive look at the state's economy and workforce.



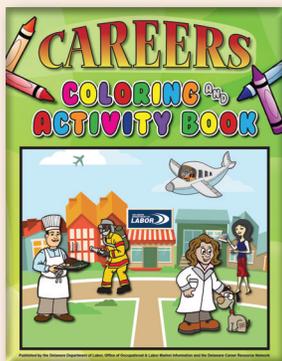
The estimates in this publication were derived from the Occupational Employment Statistics (OES) survey. This valuable tool is made possible by the hundreds of Delaware employers who responded to the survey. Data are published only if there are enough responses to ensure both quality and confidentiality.



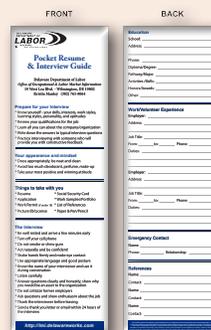
The Career Heroes Workbook is a career awareness workbook for elementary students. It is designed to be used on its own and can be paired with the Career Heroes Trading Cards and the Teacher's Guide.



The Career Heroes Teacher's Guide provides instructions and resources for conducting the trading card activities. It also provides answer keys for the exercises in the Career Heroes Workbook that have specific answers.



The coloring pages and activities in this book are intended to be fun for children in the Pre-K to 3rd grade age groups. They have been designed around the 16 Career Clusters that were developed by the U.S. Department of Education.



Students and jobseekers who complete and carry with them this handy Pocket Resume & Interview Guide will always be prepared for success.



This bookmark lists websites for personal assessment, labor market information, job preparation, and job search.

DELAWARE

2028

OCCUPATION & INDUSTRY PROJECTIONS



Delaware Department of Labor

Office of Occupational & Labor Market Information

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