



**EMPLOYMENT PROJECTIONS BY
INDUSTRY AND OCCUPATION
2010-2020
Oregon Statewide**

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Statewide: Industry Employment Forecast, 2010-2020

	2010	2020	Change	% Change
Total payroll employment	1,646,100	1,944,100	298,000	18%
Total private	1,347,200	1,622,800	275,600	20%
Natural resources and mining	50,900	58,900	8,000	16%
Mining and logging	6,800	8,100	1,300	19%
Logging	5,200	6,000	800	15%
Construction	67,600	86,100	18,500	27%
Construction of buildings	16,000	19,400	3,400	21%
Residential building construction	9,200	10,400	1,200	13%
Nonresidential building construction	6,800	9,000	2,200	32%
Heavy and civil engineering construction	9,100	11,000	1,900	21%
Specialty trade contractors	42,500	55,700	13,200	31%
Building foundation and exterior contractors	7,900	10,500	2,600	33%
Building equipment contractors	19,100	24,800	5,700	30%
Building finishing contractors	9,700	12,900	3,200	33%
Other specialty trade contractors	5,800	7,500	1,700	29%
Manufacturing	164,200	189,100	24,900	15%
Durable goods	115,100	136,700	21,600	19%
Wood product manufacturing	20,100	22,900	2,800	14%
Sawmills and wood preservation	6,100	6,900	800	13%
Plywood and engineered wood product mfg.	7,100	8,100	1,000	14%
Other wood product manufacturing	6,900	7,900	1,000	14%
Primary metal manufacturing	7,600	9,400	1,800	24%
Fabricated metal product manufacturing	13,900	16,700	2,800	20%
Machinery manufacturing	9,800	12,100	2,300	23%
Computer and electronic product manufacturing	35,000	39,800	4,800	14%
Semiconductor and electronic component mfg.	25,900	29,100	3,200	12%
Electronic instrument manufacturing	5,000	5,900	900	18%
Transportation equipment manufacturing	10,200	12,600	2,400	24%
Nondurable goods	49,100	52,400	3,300	7%
Food manufacturing	23,900	26,200	2,300	10%
Fruit and vegetable preserving and specialty	9,500	10,300	800	8%
Paper manufacturing	5,000	4,100	-900	-18%
Trade, transportation, and utilities	309,300	359,400	50,100	16%
Wholesale trade	73,600	87,900	14,300	19%
Merchant wholesalers, durable goods	30,800	37,000	6,200	20%
Merchant wholesalers, nondurable goods	29,900	35,400	5,500	18%
Electronic markets and agents and brokers	12,900	15,500	2,600	20%
Retail trade	183,300	209,400	26,100	14%
Motor vehicle and parts dealers	21,500	26,000	4,500	21%
Building material and garden supply stores	13,400	15,700	2,300	17%
Food and beverage stores	37,700	43,800	6,100	16%
Clothing and clothing accessories stores	15,700	18,100	2,400	15%
Sporting goods, hobby, book and music stores	9,900	10,500	600	6%
General merchandise stores	37,700	43,500	5,800	15%
Miscellaneous store retailers	9,900	11,500	1,600	16%
Nonstore retailers	6,700	7,200	500	7%
Transportation, warehousing, and utilities	52,400	62,100	9,700	19%
Utilities	4,600	4,500	-100	-2%
Transportation and warehousing	47,800	57,600	9,800	21%
Truck transportation	16,500	20,200	3,700	22%
Couriers and messengers	6,200	6,900	700	11%
Warehousing and storage	6,700	8,700	2,000	30%
Information	32,200	36,800	4,600	14%
Publishing industries, except Internet	14,200	17,700	3,500	25%

Statewide: Industry Employment Forecast, 2010-2020

	2010	2020	Change	% Change
Newspaper, book, and directory publishers	5,100	4,200	-900	-18%
Software publishers	9,100	13,500	4,400	48%
Telecommunications	6,800	5,900	-900	-13%
Financial activities	92,600	104,700	12,100	13%
Finance and insurance	55,700	64,300	8,600	15%
Credit intermediation and related activities	26,800	32,200	5,400	20%
Insurance carriers and related activities	23,800	26,300	2,500	11%
Real estate and rental and leasing	36,900	40,400	3,500	9%
Real estate	31,100	34,000	2,900	9%
Professional and business services	182,300	231,400	49,100	27%
Professional and technical services	70,700	90,100	19,400	27%
Legal services	12,000	14,200	2,200	18%
Architectural and engineering services	12,600	15,900	3,300	26%
Computer systems design and related services	9,800	12,100	2,300	23%
Management of companies and enterprises	30,500	34,700	4,200	14%
Administrative and waste services	81,100	106,600	25,500	31%
Administrative and support services	75,900	100,600	24,700	33%
Employment services	30,900	42,300	11,400	37%
Business support services	13,100	17,400	4,300	33%
Services to buildings and dwellings	18,300	24,600	6,300	34%
Educational and health services	228,600	296,100	67,500	30%
Educational services	31,600	38,900	7,300	23%
Health care and social assistance	197,000	257,200	60,200	31%
Ambulatory health care services	69,800	93,800	24,000	34%
Hospitals	53,200	66,400	13,200	25%
Nursing and residential care facilities	43,000	58,000	15,000	35%
Social assistance	31,000	39,000	8,000	26%
Leisure and hospitality	162,300	193,900	31,600	19%
Arts, entertainment, and recreation	21,500	25,500	4,000	19%
Amusement, gambling, and recreation	15,900	19,200	3,300	21%
Accommodation and food services	140,800	168,400	27,600	20%
Accommodation	20,700	23,200	2,500	12%
Food services and drinking places	120,100	145,200	25,100	21%
Full-service restaurants	58,700	71,900	13,200	22%
Limited-service eating places	50,500	60,500	10,000	20%
Other services	57,200	66,400	9,200	16%
Repair and maintenance	15,200	18,000	2,800	18%
Personal and laundry services	12,400	14,800	2,400	19%
Membership associations and organizations	28,700	32,500	3,800	13%
Religious organizations	16,600	18,100	1,500	9%
Government	298,900	321,300	22,400	7%
Federal government	31,000	28,600	-2,400	-8%
State government	81,100	89,000	7,900	10%
State education	30,700	34,800	4,100	13%
Local government	186,800	203,700	16,900	9%
Indian tribal	8,600	9,700	1,100	13%
Local education	101,600	111,100	9,500	9%

Note: Industry and occupational employment totals are not equal due to rounding.

Note: Farm employment is included in natural resources and mining.

Occupational Employment Projections, 2010-2020

Oregon Statewide

Standard Occupational Classification Code and Title	Employment**				2010-2020 Openings			Minimum Education	Competitive Education
	2010	2020	Change	Percent Change	Due to Growth†	Due to Replacement	Total		
Total All Occupations	1,644,158	1,941,856	297,698	18.1%	299,670	428,728	728,398		
Management, Business, and Financial	144,607	170,037	25,430	17.6%	25,492	33,325	58,817		
11-0000 Management Occupations	76,385	90,142	13,757	18.0%	13,819	18,261	32,080		
11-1000 Top Executives	21,070	25,121	4,051	19.2%	4,051	4,430	8,481		
11-1011 Chief Executives	1,609	1,870	261	16.2%	261	452	713	Bachelor's	Master's
11-1021 General and Operations Managers	19,297	23,083	3,786	19.6%	3,786	3,940	7,726	Bachelor's	Bachelor's + Work Exp.
11-1031 Legislators	164	168	4	2.4%	4	38	42	Bachelor's	Bachelor's + Work Exp.
11-2000 Advertising, Marketing, Promotions, Public Relations, and Sales Managers	8,060	9,623	1,563	19.4%	1,563	2,562	4,125		
11-2011 Advertising and Promotions Managers	545	647	102	18.7%	102	170	272	Bachelor's	Bachelor's + Work Exp.
11-2021 Marketing Managers	2,850	3,456	606	21.3%	606	917	1,523	Bachelor's	Bachelor's + Work Exp.
11-2022 Sales Managers	3,481	4,111	630	18.1%	630	1,104	1,734	Bachelor's	Bachelor's + Work Exp.
11-2031 Public Relations Managers	1,184	1,409	225	19.0%	225	371	596	Bachelor's	Bachelor's + Work Exp.
11-3000 Operations Specialties Managers	16,059	18,875	2,816	17.5%	2,816	3,669	6,485		
11-3011 Administrative Services Managers	2,136	2,506	370	17.3%	370	574	944	Bachelor's	Bachelor's + Work Exp.
11-3021 Computer and Information Systems Managers	3,356	4,047	691	20.6%	691	565	1,256	Bachelor's	Bachelor's + Work Exp.
11-3031 Financial Managers	4,504	5,275	771	17.1%	771	895	1,666	Bachelor's	Bachelor's + Work Exp.
11-3041 Compensation and Benefits Managers	195	219	24	12.3%	24	51	75	Bachelor's	Bachelor's + Work Exp.
11-3042 Training and Development Managers	289	349	60	20.8%	60	78	138	Bachelor's	Bachelor's + Work Exp.
11-3049 Human Resources Managers, All Other	1,163	1,384	221	19.0%	221	312	533	Bachelor's	Bachelor's + Work Exp.
11-3051 Industrial Production Managers	2,106	2,431	325	15.4%	325	533	858	Bachelor's	Bachelor's + Work Exp.
11-3061 Purchasing Managers	912	1,037	125	13.7%	125	296	421	Bachelor's	Bachelor's + Work Exp.
11-3071 Transportation, Storage, and Distribution Managers	1,398	1,627	229	16.4%	229	365	594	Bachelor's	Bachelor's + Work Exp.
11-9000 Other Management Occupations	31,196	36,523	5,327	17.1%	5,389	7,600	12,989		
11-9011 Farm, Ranch, and Other Agricultural Managers*	1,294	1,490	196	15.1%	196	271	467	Work Exp.	Bachelor's + Work Exp.
11-9021 Construction Managers*	2,480	3,049	569	22.9%	569	179	748	Work Exp.	Bachelor's + Work Exp.
11-9031 Preschool and Child Care Administrators	685	836	151	22.0%	151	214	365	Assoc.	Bachelor's
11-9032 Elementary and Secondary School Administrators	2,138	2,362	224	10.5%	224	634	858	Bachelor's	Master's
11-9033 Postsecondary School Administrators	1,647	1,906	259	15.7%	259	501	760	Master's	PhD
11-9039 Education Administrators, All Other	314	381	67	21.3%	67	98	165	Master's	PhD
11-9041 Engineering Managers	2,603	2,990	387	14.9%	387	545	932	Bachelor's	Bachelor's + Work Exp.
11-9051 Food Service Managers*	2,411	2,894	483	20.0%	483	489	972	Work Exp.	Assoc.
11-9061 Funeral Directors	336	395	59	17.6%	59	68	127	Assoc.	Assoc. + Work Exp.
11-9071 Gaming Managers	65	72	7	10.8%	7	13	20	Assoc.	Assoc. + Work Exp.
11-9081 Lodging Managers*	754	870	116	15.4%	116	221	337	Work Exp.	Assoc.
11-9111 Medical and Health Services Managers	3,184	4,010	826	25.9%	826	878	1,704	Bachelor's	Master's
11-9121 Natural Sciences Managers	957	1,013	56	5.9%	56	594	650	Bachelor's	Master's
11-9131 Postmasters and Mail Superintendents	307	245	-62	-20.2%	0	54	54	Work Exp.	Bachelor's
11-9141 Property, Real Estate, and Community Association Managers*	2,786	3,100	314	11.3%	314	620	934	Work Exp.	Post-sec.
11-9151 Social and Community Service Managers	2,801	3,372	571	20.4%	571	669	1,240	Bachelor's	Bachelor's + Work Exp.
11-9199 Managers, All Other*	6,434	7,538	1,104	17.2%	1,104	1,552	2,656	Bachelor's	Bachelor's + Work Exp.
13-0000 Business and Financial Operations Occupations	68,222	79,895	11,673	17.1%	11,673	15,064	26,737		
13-1000 Business Operations Specialists	43,198	50,026	6,828	15.8%	6,828	8,975	15,803		
13-1011 Agents and Business Managers of Artists, Performers, and Athletes*	87	105	18	20.7%	18	18	36	Bachelor's	Bachelor's + Work Exp.

Occupational Employment Projections, 2010-2020

Oregon Statewide

Standard Occupational Classification Code and Title	Employment**				2010-2020 Openings			Minimum Education	Competitive Education	
	2010	2020	Change	Percent Change	Due to Growth†	Due to Replacement	Total			
13-1021	Purchasing Agents and Buyers, Farm Products	425	488	63	14.8%	63	88	151	Bachelor's	Bachelor's + Work Exp.
13-1022	Wholesale and Retail Buyers, Except Farm Products	2,220	2,586	366	16.5%	366	604	970	Bachelor's	Bachelor's + Work Exp.
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	2,910	3,370	460	15.8%	460	841	1,301	Bachelor's	Bachelor's + Work Exp.
13-1031	Claims Investigators, Examiners, and Adjusters	2,877	3,142	265	9.2%	265	769	1,034	Long OJT	Bachelor's
13-1032	Insurance Appraisers, Vehicle Damage	46	51	5	10.9%	5	12	17	Long OJT	Bachelor's
13-1041	Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation	2,325	2,560	235	10.1%	235	295	530	Long OJT	Work Exp.
13-1051	Cost Estimators	2,908	3,594	686	23.6%	686	623	1,309	Moderate OJT	Bachelor's
13-1061	Emergency Management Specialists	152	171	19	12.5%	19	31	50	Work Exp.	Bachelor's
13-1071	Employment, Recruitment, and Placement Specialists	2,532	3,061	529	20.9%	529	472	1,001	Bachelor's	Bachelor's + Work Exp.
13-1072	Compensation, Benefits, and Job Analysis Specialists	975	1,114	139	14.3%	139	176	315	Bachelor's	Bachelor's + Work Exp.
13-1073	Training and Development Specialists	2,630	3,088	458	17.4%	458	483	941	Bachelor's	Bachelor's + Work Exp.
13-1079	Human Resources, Training, and Labor Relations Specialists, All Other	3,785	4,484	699	18.5%	699	698	1,397	Bachelor's	Bachelor's + Work Exp.
13-1081	Logisticians	713	804	91	12.8%	91	145	236	Bachelor's	Bachelor's + Work Exp.
13-1111	Management Analysts*	3,721	4,304	583	15.7%	583	653	1,236	Bachelor's	Master's
13-1121	Meeting and Convention Planners	634	765	131	20.7%	131	134	265	Work Exp.	Bachelor's
13-1199	Business Operations Specialists, All Other	14,258	16,339	2,081	14.6%	2,081	2,933	5,014	Bachelor's	Bachelor's + Work Exp.
13-2000	Financial Specialists	25,024	29,869	4,845	19.4%	4,845	6,089	10,934		
13-2011	Accountants and Auditors*	11,227	13,665	2,438	21.7%	2,438	2,674	5,112	Bachelor's	Bachelor's + Work Exp.
13-2021	Appraisers and Assessors of Real Estate*	1,101	1,214	113	10.3%	113	245	358	Post-sec.	Bachelor's
13-2031	Budget Analysts	787	859	72	9.1%	72	174	246	Bachelor's	Bachelor's + Work Exp.
13-2041	Credit Analysts	558	668	110	19.7%	110	130	240	Bachelor's	Bachelor's + Work Exp.
13-2051	Financial Analysts	1,705	2,033	328	19.2%	328	396	724	Bachelor's	Master's
13-2052	Personal Financial Advisors*	920	1,091	171	18.6%	171	116	287	Bachelor's	Bachelor's + Work Exp.
13-2053	Insurance Underwriters	867	961	94	10.8%	94	298	392	Bachelor's	Bachelor's + Work Exp.
13-2061	Financial Examiners	210	234	24	11.4%	24	47	71	Bachelor's	Bachelor's + Work Exp.
13-2071	Loan Counselors	479	569	90	18.8%	90	134	224	Bachelor's	Bachelor's + Work Exp.
13-2072	Loan Officers	3,557	4,238	681	19.1%	681	999	1,680	Bachelor's	Bachelor's + Work Exp.
13-2081	Tax Examiners, Collectors, and Revenue Agents	586	607	21	3.6%	21	140	161	Bachelor's	Bachelor's + Work Exp.
13-2082	Tax Preparers*	1,342	1,768	426	31.7%	426	350	776	Post-sec.	Post-sec. + Work Exp.
13-2099	Financial Specialists, All Other	1,685	1,962	277	16.4%	277	386	663	Bachelor's	Bachelor's + Work Exp.
	Professional and Related	269,963	311,684	41,721	15.5%	41,922	65,219	107,141		
15-0000	Computer and Mathematical Science Occupations	37,421	45,221	7,800	20.8%	7,800	7,753	15,553		
15-1000	Computer Specialists	36,371	44,005	7,634	21.0%	7,634	7,167	14,801		
15-1011	Computer and Information Scientists, Research	75	95	20	26.7%	20	16	36	Master's	Master's + Work Exp.
15-1021	Computer Programmers*	3,090	3,858	768	24.9%	768	807	1,575	Bachelor's	Bachelor's + Work Exp.
15-1031	Computer Software Engineers, Applications	7,887	9,838	1,951	24.7%	1,951	922	2,873	Bachelor's	Bachelor's + Work Exp.
15-1032	Computer Software Engineers, Systems Software	1,939	2,352	413	21.3%	413	223	636	Bachelor's	Bachelor's + Work Exp.
15-1041	Computer Support Specialists	7,299	8,930	1,631	22.3%	1,631	2,131	3,762	Post-sec.	Bachelor's
15-1051	Computer Systems Analysts	4,190	4,972	782	18.7%	782	859	1,641	Bachelor's	Bachelor's + Work Exp.
15-1061	Database Administrators	1,223	1,465	242	19.8%	242	227	469	Bachelor's	Master's
15-1071	Network and Computer Systems Administrators	3,512	4,138	626	17.8%	626	646	1,272	Bachelor's	Bachelor's + Work Exp.
15-1081	Network Systems and Data Communications Analysts*	2,712	3,221	509	18.8%	509	438	947	Bachelor's	Bachelor's + Work Exp.
15-1099	Computer Specialists, All Other	4,444	5,136	692	15.6%	692	898	1,590	Post-sec.	Bachelor's

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Oregon Statewide

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		2010	2020	Change	Percent Change	Due to Growth†	Due to Replacement	Total		
15-2000	Mathematical Science Occupations	1,050	1,216	166	15.8%	166	586	752		
15-2011	Actuaries	145	179	34	23.4%	34	98	132	Bachelor's	Master's
15-2031	Operations Research Analysts	322	373	51	15.8%	51	111	162	Bachelor's	Master's
15-2041	Statisticians	516	591	75	14.5%	75	334	409	Bachelor's	Master's
15-2091	Mathematical Technicians	61	67	6	9.8%	6	39	45	Assoc.	Bachelor's
15-2099	Mathematical Scientists, All Other	6	6	0	0.0%	0	4	4	Bachelor's	Master's
17-0000	Architecture and Engineering Occupations	32,161	37,670	5,509	17.1%	5,509	7,736	13,245		
17-1000	Architects, Surveyors, and Cartographers	2,736	3,357	621	22.7%	621	635	1,256		
17-1011	Architects, Except Landscape and Naval*	1,412	1,775	363	25.7%	363	323	686	Bachelor's	Master's
17-1012	Landscape Architects*	268	333	65	24.3%	65	61	126	Bachelor's	Master's
17-1021	Cartographers and Photogrammetrists	402	467	65	16.2%	65	95	160	Bachelor's	Bachelor's + Work Exp.
17-1022	Surveyors	654	782	128	19.6%	128	156	284	Bachelor's	Bachelor's + Work Exp.
17-2000	Engineers	18,717	21,763	3,046	16.3%	3,046	4,869	7,915		
17-2011	Aerospace Engineers	90	115	25	27.8%	25	23	48	Bachelor's	Master's
17-2021	Agricultural Engineers	28	36	8	28.6%	8	7	15	Bachelor's	Master's
17-2031	Biomedical Engineers	61	75	14	23.0%	14	15	29	Bachelor's	Master's
17-2041	Chemical Engineers	230	272	42	18.3%	42	80	122	Bachelor's	Master's
17-2051	Civil Engineers	3,180	3,743	563	17.7%	563	703	1,266	Bachelor's	Master's
17-2061	Computer Hardware Engineers	2,800	3,191	391	14.0%	391	708	1,099	Bachelor's	Master's
17-2071	Electrical Engineers	1,559	1,815	256	16.4%	256	407	663	Bachelor's	Master's
17-2072	Electronics Engineers, Except Computer	2,947	3,365	418	14.2%	418	761	1,179	Bachelor's	Master's
17-2081	Environmental Engineers	448	526	78	17.4%	78	107	185	Bachelor's	Master's
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	185	212	27	14.6%	27	43	70	Bachelor's	Master's
17-2112	Industrial Engineers	2,130	2,460	330	15.5%	330	500	830	Bachelor's	Master's
17-2121	Marine Engineers and Naval Architects	7	18	11	157.1%	11	3	14	Bachelor's	Master's
17-2131	Materials Engineers	350	412	62	17.7%	62	105	167	Bachelor's	Master's
17-2141	Mechanical Engineers	2,535	3,018	483	19.1%	483	893	1,376	Bachelor's	Master's
17-2199	Engineers, All Other	2,167	2,505	338	15.6%	338	514	852	Bachelor's	Master's
17-3000	Drafters, Engineering, and Mapping Technicians	10,708	12,550	1,842	17.2%	1,842	2,232	4,074		
17-3011	Architectural and Civil Drafters	1,299	1,606	307	23.6%	307	281	588	Post-sec.	Post-sec. + Work Exp.
17-3012	Electrical and Electronics Drafters	284	343	59	20.8%	59	61	120	Post-sec.	Post-sec. + Work Exp.
17-3013	Mechanical Drafters	635	779	144	22.7%	144	137	281	Post-sec.	Post-sec. + Work Exp.
17-3019	Drafters, All Other	425	517	92	21.6%	92	91	183	Post-sec.	Post-sec. + Work Exp.
17-3022	Civil Engineering Technicians	996	1,114	118	11.8%	118	202	320	Assoc.	Assoc. + Work Exp.
17-3023	Electrical and Electronic Engineering Technicians	2,932	3,366	434	14.8%	434	602	1,036	Assoc.	Assoc. + Work Exp.
17-3024	Electro-Mechanical Technicians	131	159	28	21.4%	28	28	56	Assoc.	Assoc. + Work Exp.
17-3025	Environmental Engineering Technicians	185	216	31	16.8%	31	38	69	Assoc.	Assoc. + Work Exp.
17-3026	Industrial Engineering Technicians	669	791	122	18.2%	122	140	262	Assoc.	Assoc. + Work Exp.
17-3027	Mechanical Engineering Technicians	425	516	91	21.4%	91	90	181	Assoc.	Assoc. + Work Exp.
17-3029	Engineering Technicians, All Other	1,549	1,734	185	11.9%	185	314	499	Assoc.	Assoc. + Work Exp.
17-3031	Surveying and Mapping Technicians	1,178	1,409	231	19.6%	231	248	479	Moderate OJT	Post-sec.
19-0000	Life, Physical, and Social Science Occupations	23,027	26,263	3,236	14.1%	3,313	7,445	10,758		
19-1000	Life Scientists	5,714	6,466	752	13.2%	752	1,145	1,897		
19-1011	Animal Scientists	37	45	8	21.6%	8	17	25	Bachelor's	Master's
19-1012	Food Scientists and Technologists	164	185	21	12.8%	21	71	92	Bachelor's	Master's

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19-1013	Soil and Plant Scientists	542	615	73	13.5%	73	237	310	Bachelor's	Master's
19-1021	Biochemists and Biophysicists	110	129	19	17.3%	19	27	46	Master's	PhD
19-1022	Microbiologists	126	144	18	14.3%	18	30	48	Bachelor's	Master's
19-1023	Zoologists and Wildlife Biologists	1,290	1,470	180	14.0%	180	311	491	Bachelor's	Master's
19-1029	Biological Scientists, All Other	901	941	40	4.4%	40	207	247	Bachelor's	Master's
19-1031	Conservation Scientists	461	476	15	3.3%	15	57	72	Bachelor's	Master's
19-1032	Foresters	778	845	67	8.6%	67	98	165	Bachelor's	Master's
19-1041	Epidemiologists	43	47	4	9.3%	4	3	7	PhD	PhD + Work Exp.
19-1042	Medical Scientists, Except Epidemiologists	1,065	1,340	275	25.8%	275	74	349	PhD	PhD + Work Exp.
19-1099	Life Scientists, All Other	197	229	32	16.2%	32	13	45	Bachelor's	Master's
19-2000	Physical Scientists	2,882	3,342	460	16.0%	460	955	1,415		
19-2011	Astronomers	1	1	0	0.0%	0	0	0	Master's	PhD
19-2012	Physicists	91	111	20	22.0%	20	30	50	Master's	PhD
19-2021	Atmospheric and Space Scientists	94	95	1	1.1%	1	11	12	Bachelor's	Master's
19-2031	Chemists	585	699	114	19.5%	114	209	323	Bachelor's	Master's
19-2032	Materials Scientists	42	49	7	16.7%	7	15	22	Bachelor's	Master's
19-2041	Environmental Scientists and Specialists, Including Health	1,045	1,185	140	13.4%	140	330	470	Bachelor's	Master's
19-2042	Geoscientists, Except Hydrologists and Geographers	298	378	80	26.8%	80	100	180	Bachelor's	Master's
19-2043	Hydrologists	241	275	34	14.1%	34	76	110	Bachelor's	Master's
19-2099	Physical Scientists, All Other	485	549	64	13.2%	64	184	248	Bachelor's	Master's
19-3000	Social Scientists and Related Workers	5,448	6,519	1,071	19.7%	1,071	1,796	2,867		
19-3011	Economists	370	454	84	22.7%	84	130	214	Bachelor's	Master's
19-3021	Market Research Analysts*	1,538	1,872	334	21.7%	334	453	787	Bachelor's	Master's
19-3022	Survey Researchers*	212	271	59	27.8%	59	64	123	Bachelor's	Master's
19-3031	Clinical, Counseling, and School Psychologists*	1,105	1,345	240	21.7%	240	386	626	Master's	PhD
19-3032	Industrial-Organizational Psychologists*	14	17	3	21.4%	3	5	8	Master's	PhD
19-3039	Psychologists, All Other*	222	264	42	18.9%	42	77	119	Master's	PhD
19-3041	Sociologists	33	41	8	24.2%	8	9	17	Master's	PhD
19-3051	Urban and Regional Planners	1,190	1,331	141	11.8%	141	321	462	Bachelor's	Master's
19-3091	Anthropologists and Archeologists	206	249	43	20.9%	43	95	138	Bachelor's	Master's
19-3092	Geographers	56	66	10	17.9%	10	25	35	Bachelor's	Master's
19-3099	Social Scientists and Related Workers, All Other	502	609	107	21.3%	107	231	338	Bachelor's	Master's
19-4000	Life, Physical, and Social Science Technicians	8,983	9,936	953	10.6%	1,030	3,549	4,579		
19-4011	Agricultural and Food Science Technicians	602	704	102	16.9%	102	220	322	Assoc.	Assoc. + Work Exp.
19-4021	Biological Technicians	2,867	3,284	417	14.5%	417	1,035	1,452	Assoc.	Bachelor's
19-4031	Chemical Technicians	396	479	83	21.0%	83	63	146	Assoc.	Bachelor's
19-4041	Geological and Petroleum Technicians	28	36	8	28.6%	8	11	19	Assoc.	Assoc. + Work Exp.
19-4051	Nuclear Technicians	23	26	3	13.0%	3	8	11	Assoc.	Assoc. + Work Exp.
19-4061	Social Science Research Assistants	606	742	136	22.4%	136	285	421	Post-sec.	Bachelor's
19-4091	Environmental Science and Protection Technicians, Including Health	331	390	59	17.8%	59	152	211	Assoc.	Bachelor's
19-4092	Forensic Science Technicians	216	232	16	7.4%	16	95	111	Bachelor's	Master's
19-4093	Forest and Conservation Technicians	2,738	2,661	-77	-2.8%	0	1,140	1,140	Long OJT	Bachelor's
19-4099	Life, Physical, and Social Science Technicians, All Other	1,176	1,382	206	17.5%	206	540	746	Assoc.	Bachelor's
21-0000	Community and Social Service Occupations	33,384	39,108	5,724	17.1%	5,724	7,769	13,493		

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21-1000 Counselors, Social Workers, and Other Community and Social Service Specialists	27,534	32,653	5,119	18.6%	5,119	6,689	11,808		
21-1011 Substance Abuse and Behavioral Disorder Counselors	1,828	2,378	550	30.1%	550	450	1,000	Bachelor's	Master's
21-1012 Educational, Vocational, and School Counselors	2,629	2,949	320	12.2%	320	597	917	Master's	Master's + Work Exp.
21-1013 Marriage and Family Therapists	356	474	118	33.1%	118	89	207	Master's	Master's + Work Exp.
21-1014 Mental Health Counselors	1,859	2,320	461	24.8%	461	447	908	Master's	Master's + Work Exp.
21-1015 Rehabilitation Counselors	1,454	1,678	224	15.4%	224	335	559	Master's	Master's + Work Exp.
21-1019 Counselors, All Other	205	246	41	20.0%	41	48	89	Master's	Master's + Work Exp.
21-1021 Child, Family, and School Social Workers	3,679	4,364	685	18.6%	685	954	1,639	Bachelor's	Master's
21-1022 Medical and Public Health Social Workers	1,299	1,626	327	25.2%	327	347	674	Bachelor's	Master's
21-1023 Mental Health and Substance Abuse Social Workers	1,959	2,466	507	25.9%	507	525	1,032	Master's	Master's + Work Exp.
21-1029 Social Workers, All Other	1,828	2,087	259	14.2%	259	464	723	Bachelor's	Master's
21-1091 Health Educators	897	1,065	168	18.7%	168	212	380	Bachelor's	Master's
21-1092 Probation Officers and Correctional Treatment Specialists	2,001	2,134	133	6.6%	133	447	580	Bachelor's	Bachelor's + Work Exp.
21-1093 Social and Human Service Assistants	6,505	7,678	1,173	18.0%	1,173	1,534	2,707	Moderate OJT	Assoc.
21-1099 Community and Social Service Specialists, All Other	1,035	1,188	153	14.8%	153	240	393	Moderate OJT	Assoc.
21-2000 Religious Workers	5,850	6,455	605	10.3%	605	1,080	1,685		
21-2011 Clergy	3,824	4,233	409	10.7%	409	688	1,097	Bachelor's	1st Prof.
21-2021 Directors, Religious Activities and Education	1,623	1,777	154	9.5%	154	315	469	Bachelor's	Bachelor's + Work Exp.
21-2099 Religious Workers, All Other	403	445	42	10.4%	42	77	119	Bachelor's	Bachelor's + Work Exp.
23-0000 Legal Occupations	9,774	11,141	1,367	14.0%	1,367	1,807	3,174		
23-1000 Lawyers, Judges, and Related Workers	5,931	6,749	818	13.8%	818	1,204	2,022		
23-1011 Lawyers*	5,049	5,800	751	14.9%	751	1,031	1,782	1st Prof.	1st Prof. + Work Exp.
23-1021 Administrative Law Judges, Adjudicators, and Hearing Officers	415	440	25	6.0%	25	81	106	1st Prof.	1st Prof. + Work Exp.
23-1022 Arbitrators, Mediators, and Conciliators	115	131	16	13.9%	16	23	39	Bachelor's	1st Prof.
23-1023 Judges and Magistrates	352	378	26	7.4%	26	69	95	1st Prof.	1st Prof. + Work Exp.
23-2000 Legal Support Workers	3,843	4,392	549	14.3%	549	603	1,152		
23-2011 Paralegals and Legal Assistants	2,081	2,404	323	15.5%	323	319	642	Assoc.	Bachelor's
23-2091 Court Reporters	110	110	0	0.0%	0	17	17	Post-sec.	Post-sec. + Work Exp.
23-2092 Law Clerks	147	169	22	15.0%	22	24	46	Bachelor's	1st Prof.
23-2093 Title Examiners, Abstractors, and Searchers	1,147	1,314	167	14.6%	167	186	353	Moderate OJT	Post-sec.
23-2099 Legal Support Workers, All Other	358	395	37	10.3%	37	57	94	Post-sec.	Assoc.
25-0000 Education, Training, and Library Occupations	111,052	125,074	14,022	12.6%	14,022	25,867	39,889		
25-1000 Postsecondary Teachers	21,144	24,434	3,290	15.6%	3,290	3,640	6,930		
25-1191 Graduate Teaching Assistants	2,732	3,105	373	13.7%	373	466	839	Bachelor's	Master's
25-1199 Postsecondary Teachers, Except Graduate Teaching Assistants	18,412	21,329	2,917	15.8%	2,917	3,174	6,091	Master's	PhD
25-2000 Primary, Secondary, and Special Education Teachers	43,914	48,890	4,976	11.3%	4,976	11,482	16,458		
25-2011 Preschool Teachers, Except Special Education	5,386	6,632	1,246	23.1%	1,246	1,563	2,809	Assoc.	Bachelor's
25-2012 Kindergarten Teachers, Except Special Education	1,560	1,749	189	12.1%	189	430	619	Bachelor's	Master's
25-2021 Elementary School Teachers, Except Special Education	14,187	15,585	1,398	9.9%	1,398	3,271	4,669	Bachelor's	Master's
25-2022 Middle School Teachers, Except Special and Vocational Education	6,903	7,558	655	9.5%	655	1,589	2,244	Bachelor's	Master's
25-2023 Vocational Education Teachers, Middle School	135	150	15	11.1%	15	31	46	Bachelor's	Master's

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25-2031 Secondary School Teachers, Except Special and Vocational Education	11,336	12,433	1,097	9.7%	1,097	3,249	4,346	Bachelor's	Master's
25-2032 Vocational Education Teachers, Secondary School	363	396	33	9.1%	33	104	137	Bachelor's	Master's
25-2041 Special Education Teachers, Preschool, Kindergarten, and Elementary School	1,771	1,927	156	8.8%	156	546	702	Bachelor's	Master's
25-2042 Special Education Teachers, Middle School	771	839	68	8.8%	68	238	306	Bachelor's	Master's
25-2043 Special Education Teachers, Secondary School	1,502	1,621	119	7.9%	119	461	580	Bachelor's	Master's
25-3000 Other Teachers and Instructors	7,628	8,889	1,261	16.5%	1,261	1,263	2,524		
25-3011 Adult Literacy, Remedial Education, and GED Teachers and Instructors*	914	1,061	147	16.1%	147	151	298	Bachelor's	Master's
25-3021 Self-Enrichment Education Teachers*	1,481	1,827	346	23.4%	346	253	599	Work Exp.	Post-sec.
25-3099 Teachers and Instructors, All Other*	5,233	6,001	768	14.7%	768	859	1,627	Bachelor's	Master's
25-4000 Librarians, Curators, and Archivists	3,512	3,862	350	10.0%	350	1,238	1,588		
25-4011 Archivists	51	56	5	9.8%	5	15	20	Master's	Master's + Work Exp.
25-4012 Curators	107	116	9	8.4%	9	31	40	Master's	Master's + Work Exp.
25-4013 Museum Technicians and Conservators	69	73	4	5.8%	4	20	24	Bachelor's	Master's
25-4021 Librarians	1,725	1,906	181	10.5%	181	473	654	Master's	Master's + Work Exp.
25-4031 Library Technicians	1,560	1,711	151	9.7%	151	699	850	Moderate OJT	Assoc.
25-9000 Other Education, Training, and Library Occupations	34,854	38,999	4,145	11.9%	4,145	8,244	12,389		
25-9011 Audio-Visual Specialists, Education-related	65	73	8	12.3%	8	15	23	Moderate OJT	Assoc.
25-9021 Farm and Home Management Advisors	260	291	31	11.9%	31	61	92	Bachelor's	Bachelor's + Work Exp.
25-9031 Instructional Coordinators	1,526	1,765	239	15.7%	239	363	602	Bachelor's	Master's
25-9041 Teacher Assistants	18,139	20,174	2,035	11.2%	2,035	4,321	6,356	Work Exp.	Assoc.
25-9099 Education, Training, and Library, All Other	14,864	16,696	1,832	12.3%	1,832	3,484	5,316	Bachelor's	Bachelor's + Work Exp.
27-0000 Arts, Design, Entertainment, Sports, and Media Occupations	23,144	27,207	4,063	17.6%	4,187	6,842	11,029		
27-1000 Art and Design Workers	7,298	8,975	1,677	23.0%	1,677	2,419	4,096		
27-1011 Art Directors*	423	519	96	22.7%	96	112	208	Bachelor's	Bachelor's + Work Exp.
27-1012 Craft Artists*	36	42	6	16.7%	6	9	15	Moderate OJT	Post-sec.
27-1013 Fine Artists, Including Painters, Sculptors, and Illustrators*	140	163	23	16.4%	23	36	59	Long OJT	Bachelor's
27-1014 Multi-Media Artists and Animators*	498	642	144	28.9%	144	136	280	Bachelor's	Bachelor's + Work Exp.
27-1019 Artists and Related Workers, All Other*	189	210	21	11.1%	21	48	69	Long OJT	Bachelor's
27-1021 Commercial and Industrial Designers*	243	314	71	29.2%	71	86	157	Bachelor's	Bachelor's + Work Exp.
27-1022 Fashion Designers*	401	504	103	25.7%	103	140	243	Bachelor's	Bachelor's + Work Exp.
27-1023 Floral Designers*	528	609	81	15.3%	81	176	257	Moderate OJT	Post-sec.
27-1024 Graphic Designers*	2,446	2,913	467	19.1%	467	831	1,298	Assoc.	Bachelor's
27-1025 Interior Designers*	519	684	165	31.8%	165	186	351	Assoc.	Bachelor's
27-1026 Merchandise Displayers and Window Trimmers*	1,548	1,961	413	26.7%	413	544	957	Moderate OJT	Assoc.
27-1027 Set and Exhibit Designers*	68	78	10	14.7%	10	23	33	Bachelor's	Bachelor's + Work Exp.
27-1029 Designers, All Other*	259	336	77	29.7%	77	92	169	Bachelor's	Bachelor's + Work Exp.
27-2000 Entertainers and Performers, Sports, and Related Workers	6,559	7,809	1,250	19.1%	1,250	1,887	3,137		
27-2011 Actors*	248	280	32	12.9%	32	70	102	Long OJT	Post-sec.
27-2012 Producers and Directors*	779	889	110	14.1%	110	247	357	Bachelor's	Bachelor's + Work Exp.
27-2021 Athletes and Sports Competitors	129	155	26	20.2%	26	36	62	Long OJT	Post-sec.
27-2022 Coaches and Scouts	2,812	3,503	691	24.6%	691	801	1,492	Long OJT	Bachelor's
27-2023 Umpires, Referees, and Other Sports Officials	238	273	35	14.7%	35	65	100	Long OJT	Bachelor's
27-2032 Choreographers and Dance Instructors*	266	374	108	40.6%	108	124	232	Work Exp.	Assoc.

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27-2041	Music Directors and Composers*	657	721	64	9.7%	64	167	231	Bachelor's	Master's
27-2042	Musicians and Singers*	1,117	1,238	121	10.8%	121	286	407	Long OJT	Work Exp.
27-2099	Entertainers and Performers, Sports and Related Workers, All Other*		376	63	20.1%	63	91	154	Long OJT	Assoc.
27-3000	Media and Communication Workers	6,953	7,927	974	14.0%	1,049	2,019	3,068		
27-3011	Radio and Television Announcers*	333	347	14	4.2%	14	93	107	Moderate OJT	Work Exp.
27-3012	Public Address System and Other Announcers*	80	91	11	13.8%	11	23	34	Long OJT	Bachelor's
27-3021	Broadcast News Analysts*	134	138	4	3.0%	4	48	52	Bachelor's	Bachelor's + Work Exp.
27-3022	Reporters and Correspondents*	674	606	-68	-10.1%	0	227	227	Bachelor's	Bachelor's + Work Exp.
27-3031	Public Relations Specialists	2,165	2,497	332	15.3%	332	623	955	Bachelor's	Bachelor's + Work Exp.
27-3041	Editors*	958	951	-7	-0.7%	0	272	272	Bachelor's	Bachelor's + Work Exp.
27-3042	Technical Writers	668	839	171	25.6%	171	149	320	Bachelor's	Bachelor's + Work Exp.
27-3043	Writers and Authors	510	601	91	17.8%	91	145	236	Bachelor's	Bachelor's + Work Exp.
27-3091	Interpreters and Translators	894	1,212	318	35.6%	318	281	599	Long OJT	Bachelor's
27-3099	Media and Communication Workers, All Other	537	645	108	20.1%	108	158	266	Bachelor's	Bachelor's + Work Exp.
27-4000	Media and Communication Equipment Workers	2,334	2,496	162	6.9%	211	517	728		
27-4011	Audio and Video Equipment Technicians	640	736	96	15.0%	96	196	292	Post-sec.	Post-sec. + Work Exp.
27-4012	Broadcast Technicians	380	393	13	3.4%	13	110	123	Post-sec.	Assoc.
27-4014	Sound Engineering Technicians	98	110	12	12.2%	12	30	42	Post-sec.	Post-sec. + Work Exp.
27-4021	Photographers*	537	488	-49	-9.1%	0	50	50	Long OJT	Bachelor's
27-4031	Camera Operators, Television, Video, and Motion Picture*	250	280	30	12.0%	30	48	78	Moderate OJT	Assoc.
27-4032	Film and Video Editors*	224	267	43	19.2%	43	44	87	Assoc.	Bachelor's
27-4099	Media and Communication Equipment Workers, All Other	205	222	17	8.3%	17	39	56	Moderate OJT	Work Exp.
Health Care		125,013	159,875	34,862	27.9%	34,862	25,432	60,294		
29-0000	Healthcare Practitioner and Technical Occupations	81,271	102,175	20,904	25.7%	20,904	17,989	38,893		
29-1000	Health Diagnosing and Treating Practitioners	52,669	66,346	13,677	26.0%	13,677	11,450	25,127		
29-1011	Chiropractors*	400	586	186	46.5%	186	98	284	1st Prof.	1st Prof. + Work Exp.
29-1021	Dentists, General*	1,100	1,321	221	20.1%	221	359	580	1st Prof.	1st Prof. + Work Exp.
29-1029	Dentists, All Other*	317	374	57	18.0%	57	103	160	1st Prof.	1st Prof. + Work Exp.
29-1031	Dietitians and Nutritionists	541	662	121	22.4%	121	212	333	Bachelor's	Bachelor's + Work Exp.
29-1041	Optometrists*	374	467	93	24.9%	93	148	241	1st Prof.	1st Prof. + Work Exp.
29-1051	Pharmacists	3,343	3,952	609	18.2%	609	928	1,537	1st Prof.	1st Prof. + Work Exp.
29-1060	Physicians and Surgeons*	7,294	9,357	2,063	28.3%	2,063	1,648	3,711	1st Prof.	1st Prof. + Work Exp.
29-1071	Physician Assistants	708	916	208	29.4%	208	155	363	Bachelor's	Master's
29-1081	Podiatrists	66	85	19	28.8%	19	15	34	1st Prof.	1st Prof. + Work Exp.
29-1111	Registered Nurses	31,299	39,400	8,101	25.9%	8,101	6,398	14,499	Assoc.	Bachelor's
29-1121	Audiologists	178	236	58	32.6%	58	13	71	Master's	PhD
29-1122	Occupational Therapists	961	1,228	267	27.8%	267	208	475	Master's	Master's + Work Exp.
29-1123	Physical Therapists*	2,266	3,034	768	33.9%	768	309	1,077	Master's	PhD
29-1124	Radiation Therapists	184	233	49	26.6%	49	40	89	Assoc.	Bachelor's
29-1125	Recreational Therapists	154	196	42	27.3%	42	63	105	Bachelor's	Bachelor's + Work Exp.
29-1126	Respiratory Therapists	1,104	1,370	266	24.1%	266	236	502	Assoc.	Bachelor's
29-1127	Speech and Language Pathologists	874	1,030	156	17.8%	156	181	337	Master's	PhD
29-1129	Therapists, All Other*	121	155	34	28.1%	34	30	64	Bachelor's	Master's
29-1131	Veterinarians*	981	1,186	205	20.9%	205	214	419	1st Prof.	1st Prof. + Work Exp.
29-1199	Health Diagnosing and Treating Practitioners, All Other*	404	558	154	38.1%	154	92	246	1st Prof.	1st Prof. + Work Exp.

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29-2000	Health Technologists and Technicians	26,828	33,711	6,883	25.7%	6,883	5,853	12,736		
29-2011	Medical and Clinical Laboratory Technologists	2,021	2,653	632	31.3%	632	455	1,087	Bachelor's	Bachelor's + Work Exp.
29-2012	Medical and Clinical Laboratory Technicians	1,059	1,432	373	35.2%	373	243	616	Post-sec.	Assoc.
29-2021	Dental Hygienists	3,178	3,820	642	20.2%	642	701	1,343	Assoc.	Bachelor's
29-2031	Cardiovascular Technologists and Technicians	571	720	149	26.1%	149	100	249	Assoc.	Assoc. + Work Exp.
29-2032	Diagnostic Medical Sonographers and Ultrasound Technologists	461	592	131	28.4%	131	82	213	Assoc.	Bachelor's
29-2033	Nuclear Medicine Technologists	191	260	69	36.1%	69	35	104	Assoc.	Bachelor's
29-2034	Radiologic, CAT, and MRI Technologists and Technicians	2,345	3,027	682	29.1%	682	416	1,098	Assoc.	Bachelor's
29-2041	Emergency Medical Technicians and Paramedics	1,952	2,521	569	29.1%	569	448	1,017	Post-sec.	Post-sec. + Work Exp.
29-2051	Dietetic Technicians	166	222	56	33.7%	56	34	90	Moderate OJT	Post-sec.
29-2052	Pharmacy Technicians	4,299	5,047	748	17.4%	748	812	1,560	Post-sec.	Post-sec. + Work Exp.
29-2053	Psychiatric Technicians	402	564	162	40.3%	162	84	246	Post-sec.	Assoc.
29-2055	Surgical Technologists	902	1,139	237	26.3%	237	177	414	Post-sec.	Assoc.
29-2056	Veterinary Technologists and Technicians	1,403	1,699	296	21.1%	296	269	565	Assoc.	Assoc. + Work Exp.
29-2061	Licensed Practical and Licensed Vocational Nurses	2,708	3,446	738	27.3%	738	821	1,559	Post-sec.	Post-sec. + Work Exp.
29-2071	Medical Records and Health Information Technicians	2,647	3,402	755	28.5%	755	606	1,361	Post-sec.	Assoc.
29-2081	Opticians, Dispensing	934	1,137	203	21.7%	203	208	411	Long OJT	Post-sec.
29-2091	Orthotists and Prosthetists	89	114	25	28.1%	25	20	45	Bachelor's	Bachelor's + Work Exp.
29-2099	Health Technologists and Technicians, All Other	1,500	1,916	416	27.7%	416	342	758	Post-sec.	Post-sec. + Work Exp.
29-9000	Other Healthcare Practitioner and Technical Occupations	1,774	2,118	344	19.4%	344	686	1,030		
29-9011	Occupational Health and Safety Specialists	904	1,041	137	15.2%	137	343	480	Bachelor's	Bachelor's + Work Exp.
29-9012	Occupational Health and Safety Technicians	48	59	11	22.9%	11	19	30	Bachelor's	Bachelor's + Work Exp.
29-9091	Athletic Trainers	156	198	42	26.9%	42	62	104	Bachelor's	Master's
29-9099	Healthcare Practitioner and Technical Workers, All Other	666	820	154	23.1%	154	262	416	Assoc.	Assoc. + Work Exp.
31-0000	Healthcare Support Occupations	43,742	57,700	13,958	31.9%	13,958	7,443	21,401		
31-1000	Nursing, Psychiatric, and Home Health Aides	22,024	29,722	7,698	35.0%	7,698	3,338	11,036		
31-1011	Home Health Aides	8,176	11,717	3,541	43.3%	3,541	1,283	4,824	Short OJT	Post-sec.
31-1012	Nursing Aides, Orderlies, and Attendants	13,101	17,065	3,964	30.3%	3,964	1,946	5,910	Short OJT	Post-sec.
31-1013	Psychiatric Aides	747	940	193	25.8%	193	109	302	Short OJT	Work Exp.
31-2000	Occupational and Physical Therapy Assistants and Aides	1,403	1,932	529	37.7%	529	258	787		
31-2011	Occupational Therapist Assistants	138	183	45	32.6%	45	25	70	Assoc.	Assoc. + Work Exp.
31-2012	Occupational Therapist Aides	17	21	4	23.5%	4	3	7	Short OJT	Post-sec.
31-2021	Physical Therapist Assistants	598	824	226	37.8%	226	110	336	Assoc.	Assoc. + Work Exp.
31-2022	Physical Therapist Aides	650	904	254	39.1%	254	120	374	Short OJT	Assoc.
31-9000	Other Healthcare Support Occupations	20,315	26,046	5,731	28.2%	5,731	3,847	9,578		
31-9011	Massage Therapists*	1,304	1,876	572	43.9%	572	259	831	Post-sec.	Post-sec. + Work Exp.
31-9091	Dental Assistants	4,452	5,345	893	20.1%	893	1,028	1,921	Moderate OJT	Post-sec.
31-9092	Medical Assistants	7,361	9,673	2,312	31.4%	2,312	1,306	3,618	Moderate OJT	Post-sec.
31-9093	Medical Equipment Preparers	1,087	1,361	274	25.2%	274	188	462	Post-sec.	Post-sec. + Work Exp.
31-9094	Medical Transcriptionists	1,573	2,049	476	30.3%	476	278	754	Post-sec.	Assoc.
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	1,224	1,490	266	21.7%	266	208	474	Short OJT	Post-sec.
31-9099	Healthcare Support Workers, All Other	3,314	4,252	938	28.3%	938	580	1,518	Short OJT	Post-sec.
	Service	267,391	320,284	52,893	19.8%	52,893	88,927	141,820		
33-0000	Protective Service Occupations	28,993	32,007	3,014	10.4%	3,014	8,365	11,379		
33-1000	Supervisors, Protective Service Workers	3,107	3,336	229	7.4%	229	1,231	1,460		

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33-1011	Supervisors and Managers of Correctional Officers	408	435	27	6.6%	27	144	171	Work Exp.	Bachelor's
33-1012	Supervisors and Managers of Police and Detectives	1,148	1,214	66	5.7%	66	406	472	Work Exp.	Bachelor's + Work Exp.
33-1021	Supervisors and Managers of Fire Fighting and Prevention Workers	961	1,026	65	6.8%	65	467	532	Work Exp.	Bachelor's + Work Exp.
33-1099	Supervisors and Managers, Protective Service Workers, All Other	590	661	71	12.0%	71	214	285	Work Exp.	Bachelor's
33-2000	Firefighting and Prevention Workers	3,662	3,993	331	9.0%	331	1,053	1,384		
33-2011	Fire Fighters	3,458	3,775	317	9.2%	317	999	1,316	Post-sec.	Assoc.
33-2021	Fire Inspectors and Investigators	141	149	8	5.7%	8	37	45	Post-sec.	Post-sec. + Work Exp.
33-2022	Forest Fire Inspectors and Prevention Specialists	63	69	6	9.5%	6	17	23	Work Exp.	Assoc.
33-3000	Law Enforcement Workers	9,923	10,541	618	6.2%	618	2,438	3,056		
33-3011	Bailiffs	56	60	4	7.1%	4	10	14	Moderate OJT	Work Exp.
33-3012	Correctional Officers	4,120	4,397	277	6.7%	277	748	1,025	Moderate OJT	Post-sec.
33-3021	Detectives and Criminal Investigators	632	654	22	3.5%	22	144	166	Assoc.	Bachelor's
33-3031	Fish and Game Wardens	13	13	0	0.0%	0	3	3	Assoc.	Bachelor's
33-3041	Parking Enforcement Workers	108	115	7	6.5%	7	27	34	Short OJT	Work Exp.
33-3051	Police and Sheriff's Patrol Officers	4,912	5,213	301	6.1%	301	1,485	1,786	Long OJT	Assoc.
33-3052	Transit and Railroad Police	82	89	7	8.5%	7	21	28	Long OJT	Post-sec.
33-9000	Other Protective Service Workers	12,301	14,137	1,836	14.9%	1,836	3,643	5,479		
33-9011	Animal Control Workers	96	102	6	6.3%	6	24	30	Moderate OJT	Work Exp.
33-9021	Private Detectives and Investigators*	223	259	36	16.1%	36	54	90	Work Exp.	Assoc.
33-9031	Gaming Surveillance Officers and Gaming Investigators	236	260	24	10.2%	24	39	63	Moderate OJT	Work Exp.
33-9032	Security Guards	7,641	8,577	936	12.2%	936	1,288	2,224	Short OJT	Work Exp.
33-9091	Crossing Guards and Flaggers	1,377	1,884	507	36.8%	507	387	894	Short OJT	Work Exp.
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	1,519	1,742	223	14.7%	223	1,044	1,267	Short OJT	Work Exp.
33-9099	Protective Service Workers, All Other	1,209	1,313	104	8.6%	104	807	911	Short OJT	Work Exp.
35-0000	Food Preparation and Serving Related Occupations	146,893	177,099	30,206	20.6%	30,206	59,097	89,303		
35-1000	Supervisors, Food Preparation and Food Serving Workers	10,161	12,224	2,063	20.3%	2,063	2,334	4,397		
35-1011	Chefs and Head Cooks*	1,077	1,294	217	20.1%	217	212	429	Post-sec.	Post-sec. + Work Exp.
35-1012	Supervisors and Managers of Food Preparation and Serving Workers	9,084	10,930	1,846	20.3%	1,846	2,122	3,968	Work Exp.	Post-sec.
35-2000	Cooks and Food Preparation Workers	37,675	45,416	7,741	20.5%	7,741	10,479	18,220		
35-2011	Cooks, Fast Food	6,548	7,807	1,259	19.2%	1,259	1,529	2,788	Short OJT	Work Exp.
35-2012	Cooks, Institution and Cafeteria	5,431	6,693	1,262	23.2%	1,262	1,292	2,554	Moderate OJT	Work Exp.
35-2014	Cooks, Restaurant	13,501	16,365	2,864	21.2%	2,864	3,182	6,046	Moderate OJT	Work Exp.
35-2015	Cooks, Short Order	1,940	2,285	345	17.8%	345	450	795	Short OJT	Work Exp.
35-2019	Cooks, All Other	171	203	32	18.7%	32	40	72	Moderate OJT	Work Exp.
35-2021	Food Preparation Workers	10,084	12,063	1,979	19.6%	1,979	3,986	5,965	Short OJT	Work Exp.
35-3000	Food and Beverage Serving Workers	82,009	98,770	16,761	20.4%	16,761	37,017	53,778		
35-3011	Bartenders	7,772	9,271	1,499	19.3%	1,499	2,965	4,464	Short OJT	Post-sec.
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	35,123	41,956	6,833	19.5%	6,833	10,756	17,589	Short OJT	Work Exp.
35-3022	Counter Attendants in Cafeterias, Food Concessions, and Coffee Shops	9,583	11,406	1,823	19.0%	1,823	7,609	9,432	Short OJT	Work Exp.
35-3031	Waiters and Waitresses	26,755	32,407	5,652	21.1%	5,652	14,768	20,420	Short OJT	Work Exp.

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35-3041	Food Servers, Nonrestaurant	2,776	3,730	954	34.4%	954	919	1,873	Short OJT	Work Exp.
35-9000	Other Food Preparation and Serving Related Workers	17,048	20,689	3,641	21.4%	3,641	9,267	12,908		
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	4,215	5,121	906	21.5%	906	1,737	2,643	Short OJT	Work Exp.
35-9021	Dishwashers	7,113	8,673	1,560	21.9%	1,560	3,603	5,163	Short OJT	Work Exp.
35-9031	Hosts and Hostesses in Restaurants, Lounges, and Coffee Shops	3,515	4,264	749	21.3%	749	2,732	3,481	Short OJT	Work Exp.
35-9099	Food Preparation and Serving Workers, All Other	2,205	2,631	426	19.3%	426	1,195	1,621	Short OJT	Work Exp.
37-0000	Building and Grounds Cleaning and Maintenance Workers	51,424	62,396	10,972	21.3%	10,972	10,419	21,391		
37-1000	Supervisors, Building and Grounds Cleaning and Maintenance Workers	2,933	3,615	682	23.3%	682	461	1,143		
37-1011	Supervisors and Managers of Housekeeping and Janitorial Workers*	1,786	2,176	390	21.8%	390	274	664	Work Exp.	Post-sec.
37-1012	Supervisors and Managers of Landscaping and Groundskeeping Workers*	1,147	1,439	292	25.5%	292	187	479	Work Exp.	Post-sec.
37-2000	Building Cleaning and Pest Control Workers	35,822	43,196	7,374	20.6%	7,374	7,460	14,834		
37-2011	Janitors and Cleaners	23,505	28,288	4,783	20.3%	4,783	4,882	9,665	Short OJT	Work Exp.
37-2012	Maids and Housekeeping Cleaners*	11,177	13,418	2,241	20.1%	2,241	2,071	4,312	Short OJT	Work Exp.
37-2019	Building Cleaning Workers, All Other	285	344	59	20.7%	59	59	118	Short OJT	Work Exp.
37-2021	Pest Control Workers*	855	1,146	291	34.0%	291	448	739	Moderate OJT	Work Exp.
37-3000	Grounds Maintenance Workers	12,669	15,585	2,916	23.0%	2,916	2,498	5,414		
37-3011	Landscaping and Groundskeeping Workers	9,834	12,201	2,367	24.1%	2,367	1,948	4,315	Short OJT	Work Exp.
37-3012	Pesticide Handlers, Sprayers, and Applicators; Vegetation	1,227	1,452	225	18.3%	225	237	462	Moderate OJT	Work Exp.
37-3013	Tree Trimmers and Pruners	1,264	1,530	266	21.0%	266	247	513	Short OJT	Work Exp.
37-3019	Grounds Maintenance Workers, All Other	344	402	58	16.9%	58	66	124	Short OJT	Work Exp.
39-0000	Personal Care and Service Occupations	40,081	48,782	8,701	21.7%	8,701	11,046	19,747		
39-1000	Supervisors, Personal Care and Service Workers	2,319	2,784	465	20.1%	465	601	1,066		
39-1011	Gaming Supervisors	185	201	16	8.6%	16	36	52	Long OJT	Work Exp.
39-1012	Slot Key Persons	92	93	1	1.1%	1	17	18	Short OJT	Work Exp.
39-1021	Supervisors and Managers of Personal Service Workers*	2,042	2,490	448	21.9%	448	548	996	Work Exp.	Post-sec.
39-2000	Animal Care and Service Workers	2,073	2,670	597	28.8%	597	507	1,104		
39-2011	Animal Trainers*	135	177	42	31.1%	42	15	57	Moderate OJT	Work Exp.
39-2021	Nonfarm Animal Caretakers*	1,938	2,493	555	28.6%	555	492	1,047	Short OJT	Post-sec.
39-3000	Entertainment Attendants and Related Workers	6,656	7,762	1,106	16.6%	1,106	4,012	5,118		
39-3011	Gaming Dealers	494	512	18	3.6%	18	216	234	Short OJT	Work Exp.
39-3012	Gaming and Sports Book Writers and Runners	239	283	44	18.4%	44	112	156	Short OJT	Work Exp.
39-3019	Gaming Service Workers, All Other	35	44	9	25.7%	9	17	26	Short OJT	Work Exp.
39-3021	Motion Picture Projectionists	160	188	28	17.5%	28	75	103	Short OJT	Work Exp.
39-3031	Ushers, Lobby Attendants, and Ticket Takers	1,431	1,747	316	22.1%	316	927	1,243	Short OJT	Work Exp.
39-3091	Amusement and Recreation Attendants	2,821	3,262	441	15.6%	441	1,746	2,187	Short OJT	Work Exp.
39-3092	Costume Attendants	23	25	2	8.7%	2	14	16	Short OJT	Work Exp.
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	405	487	82	20.2%	82	256	338	Short OJT	Work Exp.
39-3099	Entertainment Attendants and Related Workers, All Other	1,048	1,214	166	15.8%	166	649	815	Short OJT	Work Exp.
39-4000	Funeral Service Workers	182	216	34	18.7%	34	94	128		
39-4011	Embalmers	43	51	8	18.6%	8	22	30	Assoc.	Assoc. + Work Exp.
39-4021	Funeral Attendants	139	165	26	18.7%	26	72	98	Short OJT	Work Exp.

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39-5000	Personal Appearance Workers	4,142	4,921	779	18.8%	779	858	1,637	
39-5011	Barbers*	146	173	27	18.5%	27	29	56	Post-sec.
39-5012	Hairdressers, Hairstylists, and Cosmetologists*	3,541	4,201	660	18.6%	660	738	1,398	Post-sec.
39-5092	Manicurists and Pedicurists*	208	246	38	18.3%	38	41	79	Post-sec.
39-5094	Skin Care Specialists*	247	301	54	21.9%	54	50	104	Post-sec.
39-6000	Transportation, Tourism, and Lodging Attendants	2,040	2,369	329	16.1%	329	598	927	
39-6011	Baggage Porters and Bellhops	318	375	57	17.9%	57	86	143	Short OJT
39-6012	Concierges	184	207	23	12.5%	23	48	71	Short OJT
39-6021	Tour Guides and Escorts*	628	722	94	15.0%	94	258	352	Moderate OJT
39-6022	Travel Guides*	82	94	12	14.6%	12	34	46	Moderate OJT
39-6031	Flight Attendants	692	804	112	16.2%	112	143	255	Long OJT
39-6032	Transportation Attendants, Except Flight Attendants and Baggage Porters	136	167	31	22.8%	31	29	60	Short OJT
39-9000	Other Personal Care and Service Workers	22,669	28,060	5,391	23.8%	5,391	4,376	9,767	
39-9011	Child Care Workers*	5,030	5,995	965	19.2%	965	1,736	2,701	Short OJT
39-9021	Personal and Home Care Aides*	8,359	10,755	2,396	28.7%	2,396	757	3,153	Short OJT
39-9031	Fitness Trainers and Aerobics Instructors	3,091	3,956	865	28.0%	865	564	1,429	Work Exp.
39-9032	Recreation Workers	4,302	5,138	836	19.4%	836	755	1,591	Short OJT
39-9041	Residential Advisors	677	803	126	18.6%	126	281	407	Moderate OJT
39-9099	Personal Care and Service Workers, All Other	1,210	1,413	203	16.8%	203	283	486	Short OJT
	Sales and Related	171,558	197,757	26,199	15.3%	26,382	55,719	82,101	
41-0000	Sales and Related Occupations	171,558	197,757	26,199	15.3%	26,382	55,719	82,101	
41-1000	Supervisors, Sales and Related	18,936	21,784	2,848	15.0%	2,848	4,825	7,673	
41-1011	Supervisors and Managers of Retail Sales Workers*	15,079	17,325	2,246	14.9%	2,246	3,779	6,025	Work Exp.
41-1012	Supervisors and Managers of Non-Retail Sales Workers*	3,857	4,459	602	15.6%	602	1,046	1,648	Work Exp.
41-2000	Retail Sales Workers	96,425	110,725	14,300	14.8%	14,300	36,128	50,428	
41-2011	Cashiers	33,427	37,999	4,572	13.7%	4,572	16,204	20,776	Short OJT
41-2012	Gaming Change Persons and Booth Cashiers	256	262	6	2.3%	6	118	124	Short OJT
41-2021	Counter and Rental Clerks	4,660	5,356	696	14.9%	696	1,141	1,837	Short OJT
41-2022	Parts Salespersons	3,495	4,195	700	20.0%	700	1,406	2,106	Moderate OJT
41-2031	Retail Salespersons	54,587	62,913	8,326	15.3%	8,326	17,259	25,585	Short OJT
41-3000	Sales Representatives, Service	14,091	15,797	1,706	12.1%	1,889	3,984	5,873	
41-3011	Advertising Sales Agents	1,491	1,460	-31	-2.1%	0	451	451	Moderate OJT
41-3021	Insurance Sales Agents*	3,211	3,554	343	10.7%	343	775	1,118	Post-sec.
41-3031	Securities, Commodities, and Financial Services Sales Agents	2,669	3,138	469	17.6%	469	802	1,271	Bachelor's
41-3041	Travel Agents*	905	753	-152	-16.8%	0	90	90	Moderate OJT
41-3099	Sales Representatives, Services, All Other	5,815	6,892	1,077	18.5%	1,077	1,866	2,943	Moderate OJT
41-4000	Sales Representatives, Wholesale and Manufacturing	20,485	24,608	4,123	20.1%	4,123	5,306	9,429	
41-4011	Wholesale and Manufacturing Sales Representatives, Technical and Scientific Products	4,904	5,982	1,078	22.0%	1,078	1,281	2,359	Work Exp.
41-4012	Wholesale and Manufacturing Sales Representatives, Except Technical and Scientific Products	15,581	18,626	3,045	19.5%	3,045	4,025	7,070	Work Exp.
41-9000	Other Sales and Related Workers	21,621	24,843	3,222	14.9%	3,222	5,476	8,698	
41-9011	Demonstrators and Product Promoters	1,448	1,760	312	21.5%	312	468	780	Short OJT
41-9012	Models	36	43	7	19.4%	7	12	19	Moderate OJT

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41-9021	Real Estate Brokers*	5,637	6,219	582	10.3%	582	1,333	1,915	Post-sec.	Post-sec. + Work Exp.
41-9022	Real Estate Sales Agents*	8,316	9,170	854	10.3%	854	1,966	2,820	Post-sec.	Post-sec. + Work Exp.
41-9031	Sales Engineers	691	838	147	21.3%	147	260	407	Bachelor's	Bachelor's + Work Exp.
41-9041	Telemarketers	2,451	3,196	745	30.4%	745	603	1,348	Short OJT	Work Exp.
41-9091	Door-To-Door Sales Workers, News and Street Vendors, and Related Workers*									
		238	271	33	13.9%	33	57	90	Short OJT	Work Exp.
41-9099	Sales and Related Workers, All Other	2,804	3,346	542	19.3%	542	777	1,319	Short OJT	Work Exp.
	Office and Administrative Support	262,348	309,947	47,599	18.1%	48,736	61,562	110,298		
43-0000	Office and Administrative Support Occupations	262,348	309,947	47,599	18.1%	48,736	61,562	110,298		
43-1000	Supervisors, Office and Administrative Support Workers	14,859	17,584	2,725	18.3%	2,725	4,339	7,064		
43-1011	Supervisors and Managers of Office and Administrative Support Workers									
		14,859	17,584	2,725	18.3%	2,725	4,339	7,064	Work Exp.	Assoc.
43-2000	Communication Equipment Workers	1,683	2,011	328	19.5%	328	358	686		
43-2011	Switchboard Operators, Including Answering Service	1,683	2,011	328	19.5%	328	358	686	Short OJT	Work Exp.
43-3000	Financial Clerks	45,309	54,204	8,895	19.6%	8,895	8,952	17,847		
43-3011	Bill and Account Collectors	3,897	4,720	823	21.1%	823	839	1,662	Short OJT	Work Exp.
43-3021	Billing and Posting Clerks	5,823	7,182	1,359	23.3%	1,359	1,134	2,493	Short OJT	Work Exp.
43-3031	Bookkeeping, Accounting, and Auditing Clerks	25,606	30,443	4,837	18.9%	4,837	3,082	7,919	Post-sec.	Assoc.
43-3041	Gaming Cage Workers	231	249	18	7.8%	18	47	65	Short OJT	Work Exp.
43-3051	Payroll and Timekeeping Clerks	2,375	2,846	471	19.8%	471	536	1,007	Moderate OJT	Post-sec.
43-3061	Purchasing and Procurement Clerks	687	760	73	10.6%	73	293	366	Work Exp.	Bachelor's
43-3071	Tellers	6,690	8,004	1,314	19.6%	1,314	3,021	4,335	Short OJT	Work Exp.
43-4000	Information and Record Clerks	64,357	76,779	12,422	19.3%	12,422	20,207	32,629		
43-4011	Brokerage Clerks	548	637	89	16.2%	89	166	255	Moderate OJT	Work Exp.
43-4021	Correspondence Clerks	617	755	138	22.4%	138	192	330	Short OJT	Work Exp.
43-4031	Court, Municipal, and License Clerks	2,022	2,176	154	7.6%	154	588	742	Short OJT	Post-sec.
43-4041	Credit Authorizers, Checkers, and Clerks	353	420	67	19.0%	67	108	175	Work Exp.	Post-sec.
43-4051	Customer Service Representatives	21,432	26,193	4,761	22.2%	4,761	6,763	11,524	Moderate OJT	Work Exp.
43-4061	Eligibility Interviewers, Government Programs	1,570	1,668	98	6.2%	98	432	530	Moderate OJT	Post-sec.
43-4071	File Clerks	2,375	2,901	526	22.1%	526	695	1,221	Short OJT	Work Exp.
43-4081	Hotel, Motel, and Resort Desk Clerks	3,503	3,938	435	12.4%	435	1,484	1,919	Short OJT	Work Exp.
43-4111	Interviewers, Except Eligibility and Loan	3,227	4,150	923	28.6%	923	736	1,659	Short OJT	Work Exp.
43-4121	Library Assistants, Clerical	1,720	1,865	145	8.4%	145	806	951	Short OJT	Post-sec.
43-4131	Loan Interviewers and Clerks	2,331	2,769	438	18.8%	438	473	911	Short OJT	Work Exp.
43-4141	New Accounts Clerks	1,253	1,500	247	19.7%	247	386	633	Work Exp.	Bachelor's
43-4151	Order Clerks	3,077	3,599	522	17.0%	522	935	1,457	Short OJT	Work Exp.
43-4161	Human Resources Assistants, Except Payroll and Timekeeping									
		1,487	1,744	257	17.3%	257	453	710	Short OJT	Post-sec.
43-4171	Receptionists and Information Clerks	12,312	15,262	2,950	24.0%	2,950	4,169	7,119	Short OJT	Work Exp.
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks*									
		1,083	1,202	119	11.0%	119	217	336	Short OJT	Work Exp.
43-4199	Information and Record Clerks, All Other	5,447	6,000	553	10.2%	553	1,604	2,157	Short OJT	Work Exp.
43-5000	Material Recording, Scheduling, Dispatching, and Distributing Workers	38,273	42,792	4,519	11.8%	5,656	10,088	15,744		
43-5011	Cargo and Freight Agents	884	1,086	202	22.9%	202	241	443	Moderate OJT	Work Exp.
43-5021	Couriers and Messengers*	1,318	1,628	310	23.5%	310	360	670	Short OJT	Work Exp.

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43-5031	Police, Fire, and Ambulance Dispatchers	972	1,059	87	9.0%	87	192	279	Moderate OJT	Work Exp.
43-5032	Dispatchers, Except Police, Fire, and Ambulance	2,511	2,923	412	16.4%	412	514	926	Moderate OJT	Work Exp.
43-5041	Meter Readers, Utilities	503	553	50	9.9%	50	159	209	Short OJT	Work Exp.
43-5051	Postal Service Clerks	820	656	-164	-20.0%	0	174	174	Short OJT	Work Exp.
43-5052	Postal Service Mail Carriers	3,341	2,673	-668	-20.0%	0	982	982	Short OJT	Work Exp.
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	1,651	1,346	-305	-18.5%	0	79	79	Short OJT	Work Exp.
43-5061	Production, Planning, and Expediting Clerks	3,292	3,883	591	18.0%	591	940	1,531	Work Exp.	Bachelor's
43-5071	Shipping, Receiving, and Traffic Clerks	8,015	9,354	1,339	16.7%	1,339	2,215	3,554	Short OJT	Work Exp.
43-5081	Stock Clerks and Order Fillers	13,842	16,227	2,385	17.2%	2,385	3,736	6,121	Short OJT	Work Exp.
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	1,124	1,404	280	24.9%	280	496	776	Short OJT	Work Exp.
43-6000	Secretaries and Administrative Assistants	45,884	55,253	9,369	20.4%	9,369	6,780	16,149		
43-6011	Executive Secretaries and Administrative Assistants	11,302	13,438	2,136	18.9%	2,136	1,659	3,795	Moderate OJT	Assoc.
43-6012	Legal Secretaries	3,313	3,883	570	17.2%	570	482	1,052	Post-sec.	Assoc.
43-6013	Medical Secretaries	10,638	13,777	3,139	29.5%	3,139	1,637	4,776	Moderate OJT	Post-sec.
43-6014	Secretaries, Except Legal, Medical, and Executive	20,631	24,155	3,524	17.1%	3,524	3,002	6,526	Moderate OJT	Assoc.
43-9000	Other Office and Administrative Support Workers	51,983	61,324	9,341	18.0%	9,341	10,838	20,179		
43-9011	Computer Operators*	754	884	130	17.2%	130	78	208	Moderate OJT	Work Exp.
43-9021	Data Entry Keyers	1,942	2,363	421	21.7%	421	377	798	Moderate OJT	Work Exp.
43-9022	Word Processors and Typists*	452	486	34	7.5%	34	27	61	Moderate OJT	Post-sec.
43-9031	Desktop Publishers	443	466	23	5.2%	23	85	108	Post-sec.	Post-sec. + Work Exp.
43-9041	Insurance Claims and Policy Processing Clerks	3,270	3,640	370	11.3%	370	1,035	1,405	Moderate OJT	Post-sec.
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	1,118	1,325	207	18.5%	207	236	443	Short OJT	Work Exp.
43-9061	Office Clerks, General	32,482	38,666	6,184	19.0%	6,184	6,293	12,477	Short OJT	Post-sec.
43-9071	Office Machine Operators, Except Computer	1,005	1,104	99	9.9%	99	296	395	Short OJT	Work Exp.
43-9081	Proofreaders and Copy Markers	112	133	21	18.8%	21	23	44	Short OJT	Work Exp.
43-9111	Statistical Assistants	271	308	37	13.7%	37	54	91	Bachelor's	Bachelor's + Work Exp.
43-9199	Office and Administrative Support Workers, All Other	10,134	11,949	1,815	17.9%	1,815	2,334	4,149	Short OJT	Work Exp.
	Farming, Fishing, and Forestry									
45-0000	Farming, Fishing, and Forestry Occupations	38,902	45,177	6,275	16.1%	6,275	12,173	18,448		
45-1000	Supervisors, Farming, Fishing, and Forestry Workers	1,935	2,246	311	16.1%	311	605	916		
45-1011	Supervisors and Managers of Farming, Fishing, and Forestry Workers*	1,796	2,077	281	15.6%	281	560	841	Work Exp.	Work Exp.
45-1012	Farm Labor Contractors*	139	169	30	21.6%	30	45	75	Work Exp.	Work Exp.
45-2000	Agricultural Workers	30,176	34,901	4,725	15.7%	4,725	9,733	14,458		
45-2011	Agricultural Inspectors	179	193	14	7.8%	14	55	69	Moderate OJT	Work Exp.
45-2021	Animal Breeders	83	104	21	25.3%	21	29	50	Moderate OJT	Work Exp.
45-2041	Graders and Sorters, Agricultural Products	2,660	3,052	392	14.7%	392	689	1,081	Short OJT	Work Exp.
45-2091	Agricultural Equipment Operators	2,244	2,532	288	12.8%	288	728	1,016	Short OJT	Work Exp.
45-2092	Farmworkers and Laborers for Crops, Nurseries, and Greenhouses	19,631	22,562	2,931	14.9%	2,931	6,428	9,359	Short OJT	Work Exp.
45-2093	Farmworkers, Farm and Ranch Animals	3,248	3,984	736	22.7%	736	1,102	1,838	Short OJT	Work Exp.
45-2099	Agricultural Workers, All Other	2,131	2,474	343	16.1%	343	702	1,045	Short OJT	Work Exp.
45-3000	Fishing and Hunting Workers	790	839	49	6.2%	49	236	285		

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45-3011	Fishers and Related Fishing Workers*	765	810	45	5.9%	45	228	273	Moderate OJT	Work Exp.
45-3021	Hunters and Trappers	25	29	4	16.0%	4	8	12	Moderate OJT	Work Exp.
45-4000	Forest, Conservation, and Logging Workers	6,001	7,191	1,190	19.8%	1,190	1,599	2,789		
45-4011	Forest and Conservation Workers	2,195	2,719	524	23.9%	524	603	1,127	Moderate OJT	Work Exp.
45-4021	Fallers and Buckers*	692	810	118	17.1%	118	181	299	Moderate OJT	Work Exp.
45-4022	Logging Equipment Operators*	1,936	2,251	315	16.3%	315	504	819	Moderate OJT	Work Exp.
45-4023	Log Graders and Scaliers*	203	273	70	34.5%	70	57	127	Moderate OJT	Work Exp.
45-4029	Logging Workers, All Other*	975	1,138	163	16.7%	163	254	417	Moderate OJT	Work Exp.
	Construction and Extraction	58,294	72,873	14,579	25.0%	14,607	14,315	28,922		
47-0000	Construction and Extraction Occupations	58,294	72,873	14,579	25.0%	14,607	14,315	28,922		
47-1000	Supervisors, Construction and Extraction Workers	4,394	5,416	1,022	23.3%	1,022	1,130	2,152		
47-1011	Supervisors and Managers of Construction Trades and Extraction Workers*	4,394	5,416	1,022	23.3%	1,022	1,130	2,152	Work Exp.	Post-sec.
47-2000	Construction Trades Workers	46,505	58,756	12,251	26.3%	12,251	10,978	23,229		
47-2011	Boilermakers	177	221	44	24.9%	44	76	120	Long OJT	Post-sec.
47-2021	Brickmasons and Blockmasons	518	692	174	33.6%	174	125	299	Long OJT	Post-sec.
47-2022	Stonemasons	92	120	28	30.4%	28	22	50	Long OJT	Post-sec.
47-2031	Carpenters*	9,080	11,287	2,207	24.3%	2,207	2,158	4,365	Long OJT	Post-sec.
47-2041	Carpet Installers	477	627	150	31.4%	150	120	270	Moderate OJT	Work Exp.
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	194	255	61	31.4%	61	49	110	Moderate OJT	Work Exp.
47-2043	Floor Sanders and Finishers	121	152	31	25.6%	31	30	61	Moderate OJT	Work Exp.
47-2044	Tile and Marble Setters	381	500	119	31.2%	119	95	214	Long OJT	Work Exp.
47-2051	Cement Masons and Concrete Finishers	1,600	2,052	452	28.3%	452	288	740	Long OJT	Work Exp.
47-2053	Terrazzo Workers and Finishers	30	39	9	30.0%	9	5	14	Long OJT	Work Exp.
47-2061	Construction Laborers*	7,850	9,760	1,910	24.3%	1,910	705	2,615	Moderate OJT	Work Exp.
47-2071	Paving, Surfacing, and Tamping Equipment Operators	575	694	119	20.7%	119	131	250	Moderate OJT	Work Exp.
47-2072	Pile-Driver Operators	115	140	25	21.7%	25	26	51	Moderate OJT	Post-sec.
47-2073	Operating Engineers and Other Construction Equipment Operators	3,268	3,985	717	21.9%	717	840	1,557	Moderate OJT	Work Exp.
47-2081	Drywall and Ceiling Tile Installers	1,173	1,562	389	33.2%	389	376	765	Long OJT	Work Exp.
47-2082	Tapers	480	634	154	32.1%	154	153	307	Moderate OJT	Work Exp.
47-2111	Electricians	6,740	8,495	1,755	26.0%	1,755	2,053	3,808	Post-sec.	Post-sec. + Work Exp.
47-2121	Glaziers	620	805	185	29.8%	185	267	452	Long OJT	Post-sec.
47-2131	Insulation Workers, Floor, Ceiling, and Wall	322	429	107	33.2%	107	148	255	Long OJT	Work Exp.
47-2132	Insulation Workers, Mechanical	58	75	17	29.3%	17	26	43	Long OJT	Work Exp.
47-2141	Painters, Construction and Maintenance*	3,328	4,323	995	29.9%	995	834	1,829	Long OJT	Work Exp.
47-2142	Paperhangers	46	59	13	28.3%	13	5	18	Moderate OJT	Work Exp.
47-2151	Pipelayers*	469	540	71	15.1%	71	146	217	Moderate OJT	Work Exp.
47-2152	Plumbers, Pipefitters, and Steamfitters*	3,547	4,468	921	26.0%	921	1,157	2,078	Post-sec.	Post-sec. + Work Exp.
47-2161	Plasterers and Stucco Masons	186	249	63	33.9%	63	45	108	Long OJT	Work Exp.
47-2171	Reinforcing Iron and Rebar Workers	246	329	83	33.7%	83	59	142	Long OJT	Work Exp.
47-2181	Roofers	1,887	2,523	636	33.7%	636	454	1,090	Moderate OJT	Work Exp.
47-2211	Sheet Metal Workers	2,455	3,127	672	27.4%	672	474	1,146	Post-sec.	Post-sec. + Work Exp.
47-2221	Structural Iron and Steel Workers	470	614	144	30.6%	144	111	255	Work Exp.	Post-sec.
47-3000	Helpers, Construction Trades	1,445	1,882	437	30.2%	437	441	878		

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47-3011	Brickmason's, Blockmason's, Stonemason's, and Tile and Marble Setter's Helpers				286	381	95	33.2%	95	88	183	Short OJT	Work Exp.
47-3012	Carpenter's Helpers				258	326	68	26.4%	68	77	145	Short OJT	Work Exp.
47-3013	Electrician's Helpers				180	233	53	29.4%	53	55	108	Short OJT	Work Exp.
47-3014	Painter's, Paperhanger's, Plasterer's, and Stucco Mason's Helpers				170	228	58	34.1%	58	53	111	Short OJT	Work Exp.
47-3015	Pipelayer's, Plumber's, Pipefitter's, and Steamfitter's Helpers				159	199	40	25.2%	40	47	87	Short OJT	Work Exp.
47-3016	Roofer's Helpers				188	254	66	35.1%	66	59	125	Short OJT	Work Exp.
47-3019	Construction Trades' Helpers, All Other				204	261	57	27.9%	57	62	119	Short OJT	Work Exp.
47-4000	Other Construction and Related Workers				5,543	6,378	835	15.1%	835	1,678	2,513		
47-4011	Construction and Building Inspectors				1,320	1,503	183	13.9%	183	417	600	Work Exp.	Assoc.
47-4021	Elevator Installers and Repairers				221	287	66	29.9%	66	75	141	Post-sec.	Post-sec. + Work Exp.
47-4031	Fence Erectors*				389	493	104	26.7%	104	121	225	Moderate OJT	Work Exp.
47-4041	Hazardous Materials Removal Workers				572	700	128	22.4%	128	168	296	Moderate OJT	Work Exp.
47-4051	Highway Maintenance Workers				2,001	2,133	132	6.6%	132	545	677	Moderate OJT	Work Exp.
47-4061	Rail-Track Laying and Maintenance Equipment Operators				131	143	12	9.2%	12	36	48	Moderate OJT	Work Exp.
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners				270	342	72	26.7%	72	81	153	Moderate OJT	Work Exp.
47-4099	Construction and Related Workers, All Other				639	777	138	21.6%	138	235	373	Moderate OJT	Work Exp.
47-5000	Extraction Workers				407	441	34	8.4%	62	88	150		
47-5021	Earth Drillers, Water and Construction*				250	295	45	18.0%	45	57	102	Moderate OJT	Work Exp.
47-5031	Blasters, Explosives Workers, and Ordnance Handling Experts				40	12	-28	-70.0%	0	5	5	Moderate OJT	Work Exp.
47-5081	Extraction Worker's Helpers				85	98	13	15.3%	13	19	32	Short OJT	Work Exp.
47-5099	Extraction Workers, All Other				32	36	4	12.5%	4	7	11	Moderate OJT	Work Exp.
	Installation, Maintenance, and Repair				58,173	66,915	8,742	15.0%	8,759	14,073	22,832		
49-0000	Installation, Maintenance, and Repair Occupations				58,173	66,915	8,742	15.0%	8,759	14,073	22,832		
49-1000	Supervisors, Installation, Maintenance, and Repair Workers				4,243	4,860	617	14.5%	617	1,198	1,815		
49-1011	Supervisors and Managers of Mechanics, Installers, and Repairers				4,243	4,860	617	14.5%	617	1,198	1,815	Work Exp.	Post-sec.
49-2000	Electrical and Electronic Equipment Mechanics, Installers, and Repairers				7,247	7,841	594	8.2%	605	1,565	2,170		
49-2011	Computer, Automated Teller, and Office Machine Repairers*				1,621	1,855	234	14.4%	234	426	660	Work Exp.	Post-sec.
49-2021	Radio Mechanics				238	258	20	8.4%	20	39	59	Post-sec.	Post-sec. + Work Exp.
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers				2,646	2,635	-11	-0.4%	0	419	419	Post-sec.	Post-sec. + Work Exp.
49-2091	Avionics Technicians				97	115	18	18.6%	18	26	44	Post-sec.	Assoc.
49-2092	Electric Motor, Power Tool, and Related Repairers				204	249	45	22.1%	45	20	65	Long OJT	Post-sec.
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment				228	259	31	13.6%	31	60	91	Post-sec.	Assoc.
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment				765	844	79	10.3%	79	197	276	Post-sec.	Assoc.
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay				232	239	7	3.0%	7	58	65	Post-sec.	Post-sec. + Work Exp.

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49-2096 Electronic Equipment Installers and Repairers, Motor Vehicles	294	331	37	12.6%	37	77	114	Post-sec.	Post-sec. + Work Exp.
49-2097 Electronic Home Entertainment Equipment Installers and Repairers	267	285	18	6.7%	18	68	86	Moderate OJT	Post-sec.
49-2098 Security and Fire Alarm Systems Installers	655	771	116	17.7%	116	175	291	Post-sec.	Post-sec. + Work Exp.
49-3000 Vehicle and Mobile Equipment Mechanics, Installers, and Repairers	16,903	20,007	3,104	18.4%	3,104	4,627	7,731		
49-3011 Aircraft Mechanics and Service Technicians	1,130	1,322	192	17.0%	192	370	562	Post-sec.	Assoc.
49-3021 Automotive Body and Related Repairers*	1,657	1,968	311	18.8%	311	439	750	Long OJT	Post-sec.
49-3022 Automotive Glass Installers and Repairers	310	370	60	19.4%	60	88	148	Moderate OJT	Post-sec.
49-3023 Automotive Service Technicians and Mechanics*	4,258	5,057	799	18.8%	799	1,204	2,003	Post-sec.	Assoc.
49-3031 Bus and Truck Mechanics and Diesel Engine Specialists	3,776	4,468	692	18.3%	692	895	1,587	Long OJT	Post-sec.
49-3041 Farm Equipment Mechanics	1,002	1,183	181	18.1%	181	284	465	Long OJT	Post-sec.
49-3042 Mobile Heavy Equipment Mechanics, Except Engines	1,718	2,043	325	18.9%	325	488	813	Long OJT	Post-sec.
49-3043 Rail Car Repairers	297	326	29	9.8%	29	81	110	Long OJT	Work Exp.
49-3051 Motorboat Mechanics*	146	176	30	20.5%	30	42	72	Long OJT	Work Exp.
49-3052 Motorcycle Mechanics*	262	318	56	21.4%	56	75	131	Long OJT	Post-sec.
49-3053 Outdoor Power Equipment and Other Small Engine Mechanics*	336	397	61	18.2%	61	95	156	Moderate OJT	Post-sec.
49-3091 Bicycle Repairers	230	253	23	10.0%	23	62	85	Moderate OJT	Work Exp.
49-3092 Recreational Vehicle Service Technicians	305	372	67	22.0%	67	87	154	Post-sec.	Assoc.
49-3093 Tire Repairers and Changers	1,476	1,754	278	18.8%	278	417	695	Short OJT	Work Exp.
49-9000 Other Installation, Maintenance, and Repair Occupations	29,780	34,207	4,427	14.9%	4,433	6,683	11,116		
49-9011 Mechanical Door Repairers	169	217	48	28.4%	48	35	83	Moderate OJT	Work Exp.
49-9012 Control and Valve Installers and Repairers, Except Mechanical Door	443	492	49	11.1%	49	86	135	Moderate OJT	Work Exp.
49-9021 Heating, Air Conditioning, and Refrigeration Mechanics and Installers	2,479	3,119	640	25.8%	640	495	1,135	Long OJT	Post-sec.
49-9031 Home Appliance Repairers*	568	649	81	14.3%	81	112	193	Long OJT	Post-sec.
49-9041 Industrial Machinery Mechanics	3,643	4,102	459	12.6%	459	744	1,203	Long OJT	Post-sec.
49-9042 Maintenance and Repair Workers, General	11,891	13,657	1,766	14.9%	1,766	2,349	4,115	Long OJT	Work Exp.
49-9043 Maintenance Workers, Machinery	615	710	95	15.4%	95	122	217	Long OJT	Assoc.
49-9044 Millwrights	666	832	166	24.9%	166	156	322	Post-sec.	Post-sec. + Work Exp.
49-9045 Refractory Materials Repairers, except Brickmasons	27	31	4	14.8%	4	6	10	Moderate OJT	Work Exp.
49-9051 Electrical Power-Line Installers and Repairers	1,439	1,490	51	3.5%	51	518	569	Post-sec.	Post-sec. + Work Exp.
49-9052 Telecommunications Line Installers and Repairers	1,432	1,426	-6	-0.4%	0	263	263	Long OJT	Post-sec.
49-9061 Camera and Photographic Equipment Repairers	61	66	5	8.2%	5	17	22	Moderate OJT	Work Exp.
49-9062 Medical Equipment Repairers	610	741	131	21.5%	131	185	316	Post-sec.	Assoc.
49-9063 Musical Instrument Repairers and Tuners	100	112	12	12.0%	12	29	41	Long OJT	Post-sec.
49-9064 Watch Repairers	33	39	6	18.2%	6	10	16	Long OJT	Post-sec.
49-9069 Precision Instrument and Equipment Repairers, All Other	418	459	41	9.8%	41	120	161	Long OJT	Post-sec.
49-9091 Coin, Vending, and Amusement Machine Servicers and Repairers*	422	471	49	11.6%	49	88	137	Moderate OJT	Work Exp.
49-9094 Locksmiths and Safe Repairers	391	433	42	10.7%	42	76	118	Moderate OJT	Post-sec.
49-9095 Manufactured Building and Mobile Home Installers	157	185	28	17.8%	28	19	47	Moderate OJT	Work Exp.
49-9096 Riggers	235	272	37	15.7%	37	47	84	Moderate OJT	Work Exp.

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		2010	2020	Change	Percent Change	Due to Growth†	Due to Replacement	Total		
49-9097	Signal and Track Switch Repairers	100	101	1	1.0%	1	18	19	Post-sec.	Post-sec. + Work Exp.
49-9098	Installation, Maintenance, and Repair Worker's Helpers	1,340	1,631	291	21.7%	291	681	972	Short OJT	Work Exp.
49-9099	Installation, Maintenance, and Repair Workers, All Other	2,541	2,972	431	17.0%	431	507	938	Long OJT	Post-sec.
Production		104,660	122,556	17,896	17.1%	18,240	22,805	41,045		
51-0000	Production Occupations	104,660	122,556	17,896	17.1%	18,240	22,805	41,045		
51-1000	Supervisors, Production Workers	7,163	8,250	1,087	15.2%	1,087	1,008	2,095		
51-1011	Supervisors and Managers of Production and Operating Workers	7,163	8,250	1,087	15.2%	1,087	1,008	2,095	Work Exp.	Bachelor's
51-2000	Assemblers and Fabricators	19,489	23,483	3,994	20.5%	3,994	3,837	7,831		
51-2011	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	222	259	37	16.7%	37	46	83	Long OJT	Work Exp.
51-2021	Coil Winders, Tapers, and Finishers	194	234	40	20.6%	40	31	71	Short OJT	Work Exp.
51-2022	Electrical and Electronic Equipment Assemblers	6,487	7,553	1,066	16.4%	1,066	1,014	2,080	Short OJT	Work Exp.
51-2023	Electromechanical Equipment Assemblers	290	351	61	21.0%	61	46	107	Short OJT	Work Exp.
51-2031	Engine and Other Machine Assemblers	272	339	67	24.6%	67	59	126	Moderate OJT	Post-sec.
51-2041	Structural Metal Fabricators and Fitters	1,486	1,806	320	21.5%	320	316	636	Long OJT	Post-sec.
51-2091	Fiberglass Laminators and Fabricators	272	337	65	23.9%	65	60	125	Moderate OJT	Work Exp.
51-2092	Assemblers, Multi-task or Team	6,323	7,703	1,380	21.8%	1,380	1,389	2,769	Moderate OJT	Work Exp.
51-2099	Assemblers and Fabricators, All Other	3,943	4,901	958	24.3%	958	876	1,834	Moderate OJT	Work Exp.
51-3000	Food Processing Workers	7,028	8,003	975	13.9%	975	2,161	3,136		
51-3011	Bakers	2,533	2,894	361	14.3%	361	784	1,145	Long OJT	Work Exp.
51-3021	Butchers and Meat Cutters	1,469	1,701	232	15.8%	232	460	692	Long OJT	Post-sec.
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	833	949	116	13.9%	116	258	374	Short OJT	Work Exp.
51-3023	Slaughterers and Meat Packers	302	336	34	11.3%	34	93	127	Moderate OJT	Work Exp.
51-3091	Food Roasting, Baking, and Drying Machine Operators and Tenders	309	352	43	13.9%	43	94	137	Short OJT	Work Exp.
51-3092	Food Mixing and Blending Machine Operators and Tenders	1,001	1,122	121	12.1%	121	296	417	Short OJT	Work Exp.
51-3093	Food Cooking Machine Operators and Tenders	581	649	68	11.7%	68	176	244	Short OJT	Work Exp.
51-4000	Metal Workers and Plastic Workers	18,935	23,157	4,222	22.3%	4,222	4,061	8,283		
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	1,939	2,375	436	22.5%	436	411	847	Long OJT	Post-sec.
51-4012	Numerical Tool and Process Control Programmers	356	433	77	21.6%	77	75	152	Post-sec.	Post-sec. + Work Exp.
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	595	715	120	20.2%	120	125	245	Moderate OJT	Work Exp.
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	91	110	19	20.9%	19	19	38	Moderate OJT	Work Exp.
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	132	159	27	20.5%	27	28	55	Moderate OJT	Work Exp.
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	1,860	2,269	409	22.0%	409	153	562	Moderate OJT	Work Exp.
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	234	282	48	20.5%	48	15	63	Moderate OJT	Work Exp.
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	857	1,054	197	23.0%	197	150	347	Moderate OJT	Work Exp.

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	2010	2020	Change	Percent Change	Due to Growth†	Due to Replacement	Total		
51-4034 Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	287	358	71	24.7%	71	117	188	Moderate OJT	Work Exp.
51-4035 Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	392	470	78	19.9%	78	82	160	Moderate OJT	Work Exp.
51-4041 Machinists	2,884	3,550	666	23.1%	666	591	1,257	Long OJT	Post-sec.
51-4051 Metal-Refining Furnace Operators and Tenders	219	276	57	26.0%	57	47	104	Moderate OJT	Work Exp.
51-4052 Pourers and Casters, Metal	143	179	36	25.2%	36	31	67	Moderate OJT	Work Exp.
51-4061 Model Makers, Metal and Plastic	24	29	5	20.8%	5	1	6	Long OJT	Work Exp.
51-4062 Patternmakers, Metal and Plastic	45	54	9	20.0%	9	3	12	Long OJT	Work Exp.
51-4071 Foundry Mold Makers and Coremakers	286	360	74	25.9%	74	54	128	Moderate OJT	Work Exp.
51-4072 Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	1,093	1,369	276	25.3%	276	206	482	Moderate OJT	Work Exp.
51-4081 Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	643	794	151	23.5%	151	137	288	Moderate OJT	Work Exp.
51-4111 Tool and Die Makers	328	399	71	21.6%	71	19	90	Long OJT	Post-sec.
51-4121 Welders, Cutters, Solderers, and Brazers	4,282	5,215	933	21.8%	933	1,267	2,200	Long OJT	Post-sec.
51-4122 Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	279	346	67	24.0%	67	83	150	Moderate OJT	Post-sec.
51-4191 Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	226	273	47	20.8%	47	196	243	Moderate OJT	Work Exp.
51-4192 Lay-Out Workers, Metal and Plastic	48	61	13	27.1%	13	10	23	Long OJT	Work Exp.
51-4193 Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	461	547	86	18.7%	86	108	194	Moderate OJT	Work Exp.
51-4194 Tool Grinders, Filers, and Sharpeners	702	835	133	18.9%	133	73	206	Long OJT	Work Exp.
51-4199 Metal Workers and Plastic Workers, All Other	529	645	116	21.9%	116	60	176	Moderate OJT	Work Exp.
51-5000 Printing Workers	3,420	3,299	-121	-3.5%	0	779	779		
51-5011 Bindery Workers	640	612	-28	-4.4%	0	211	211	Moderate OJT	Work Exp.
51-5012 Bookbinders	51	48	-3	-5.9%	0	17	17	Moderate OJT	Work Exp.
51-5021 Job Printers*	330	326	-4	-1.2%	0	64	64	Long OJT	Work Exp.
51-5022 Prepress Technicians and Workers	690	654	-36	-5.2%	0	157	157	Long OJT	Post-sec.
51-5023 Printing Press Machine Operators	1,709	1,659	-50	-2.9%	0	330	330	Moderate OJT	Work Exp.
51-6000 Textile, Apparel, and Furnishings Workers	5,675	6,625	950	16.7%	950	845	1,795		
51-6011 Laundry and Dry-Cleaning Workers*	1,881	2,202	321	17.1%	321	387	708	Moderate OJT	Work Exp.
51-6021 Pressers, Textile, Garment, and Related Materials	579	683	104	18.0%	104	43	147	Short OJT	Work Exp.
51-6031 Sewing Machine Operators	1,468	1,619	151	10.3%	151	83	234	Moderate OJT	Work Exp.
51-6041 Shoe and Leather Workers and Repairers*	207	248	41	19.8%	41	76	117	Long OJT	Work Exp.
51-6042 Shoe Machine Operators and Tenders	496	629	133	26.8%	133	75	208	Moderate OJT	Work Exp.
51-6051 Sewers, Hand	52	58	6	11.5%	6	7	13	Short OJT	Work Exp.
51-6052 Tailors, Dressmakers, and Custom Sewers	249	291	42	16.9%	42	36	78	Work Exp.	Post-sec.
51-6062 Textile Cutting Machine Setters, Operators, and Tenders	69	75	6	8.7%	6	17	23	Moderate OJT	Work Exp.
51-6092 Fabric and Apparel Patternmakers	136	166	30	22.1%	30	20	50	Long OJT	Work Exp.
51-6093 Upholsterers*	281	347	66	23.5%	66	82	148	Long OJT	Work Exp.
51-6099 Textile, Apparel, and Furnishings Workers, All Other	257	307	50	19.5%	50	19	69	Moderate OJT	Work Exp.
51-7000 Woodworkers	6,075	7,306	1,231	20.3%	1,231	1,239	2,470		
51-7011 Cabinetmakers and Bench Carpenters*	1,634	2,085	451	27.6%	451	458	909	Long OJT	Work Exp.
51-7021 Furniture Finishers	270	342	72	26.7%	72	75	147	Long OJT	Work Exp.

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	2010	2020	Change	Percent Change	Due to Growth†	Due to Replacement	Total		
51-7032 Patternmakers, Wood	28	34	6	21.4%	6	8	14	Long OJT	Work Exp.
51-7041 Sawing Machine Setters, Operators, and Tenders, Wood	1,578	1,816	238	15.1%	238	368	606	Moderate OJT	Work Exp.
51-7042 Woodworking Machine Setters, Operators, and Tenders, Except Sawing	2,059	2,389	330	16.0%	330	189	519	Moderate OJT	Work Exp.
51-7099 Woodworkers, All Other	506	640	134	26.5%	134	141	275	Moderate OJT	Work Exp.
51-8000 Plant and System Operators	2,279	2,293	14	0.6%	84	638	722		
51-8012 Power Distributors and Dispatchers	257	252	-5	-1.9%	0	90	90	Long OJT	Bachelor's
51-8013 Power Plant Operators	118	126	8	6.8%	8	43	51	Post-sec.	Bachelor's
51-8021 Stationary Engineers and Boiler Operators	445	380	-65	-14.6%	0	91	91	Long OJT	Work Exp.
51-8031 Water and Liquid Waste Treatment Plant and System Operators	1,081	1,138	57	5.3%	57	287	344	Post-sec.	Post-sec. + Work Exp.
51-8091 Chemical Plant and System Operators	152	153	1	0.7%	1	50	51	Long OJT	Post-sec.
51-8093 Petroleum Pump System Operators, Refinery Operators, and Gaugers	60	66	6	10.0%	6	21	27	Long OJT	Post-sec.
51-8099 Plant and System Operators, All Other	166	178	12	7.2%	12	56	68	Long OJT	Post-sec.
51-9000 Other Production Occupations	34,596	40,140	5,544	16.0%	5,697	8,237	13,934		
51-9011 Chemical Equipment Operators and Tenders	294	318	24	8.2%	24	49	73	Moderate OJT	Work Exp.
51-9012 Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	912	1,072	160	17.5%	160	160	320	Moderate OJT	Work Exp.
51-9021 Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	529	630	101	19.1%	101	173	274	Moderate OJT	Work Exp.
51-9022 Grinding and Polishing Workers, Hand	434	536	102	23.5%	102	145	247	Moderate OJT	Work Exp.
51-9023 Mixing and Blending Machine Setters, Operators, and Tenders	980	1,091	111	11.3%	111	309	420	Moderate OJT	Work Exp.
51-9031 Cutters and Trimmers, Hand	555	627	72	13.0%	72	131	203	Short OJT	Work Exp.
51-9032 Cutting and Slicing Machine Setters, Operators, and Tenders	783	846	63	8.0%	63	180	243	Moderate OJT	Work Exp.
51-9041 Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	770	910	140	18.2%	140	199	339	Moderate OJT	Work Exp.
51-9051 Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	314	355	41	13.1%	41	87	128	Moderate OJT	Work Exp.
51-9061 Inspectors, Testers, Sorters, Samplers, and Weighers	4,843	5,719	876	18.1%	876	1,150	2,026	Moderate OJT	Post-sec.
51-9071 Jewelers and Precious Stone and Metal Workers*	317	372	55	17.4%	55	81	136	Post-sec.	Post-sec. + Work Exp.
51-9081 Dental Laboratory Technicians	804	1,060	256	31.8%	256	292	548	Long OJT	Post-sec.
51-9082 Medical Appliance Technicians	97	124	27	27.8%	27	35	62	Long OJT	Post-sec.
51-9083 Ophthalmic Laboratory Technicians	471	594	123	26.1%	123	167	290	Moderate OJT	Work Exp.
51-9111 Packaging and Filling Machine Operators and Tenders	5,290	5,980	690	13.0%	690	929	1,619	Short OJT	Work Exp.
51-9121 Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	1,033	1,223	190	18.4%	190	243	433	Moderate OJT	Work Exp.
51-9122 Painters, Transportation Equipment	705	852	147	20.9%	147	168	315	Moderate OJT	Work Exp.
51-9123 Painting, Coating, and Decorating Workers	502	608	106	21.1%	106	120	226	Long OJT	Post-sec.
51-9131 Photographic Process Workers	90	84	-6	-6.7%	0	22	22	Moderate OJT	Post-sec.
51-9132 Photographic Processing Machine Operators	403	434	31	7.7%	31	104	135	Short OJT	Work Exp.
51-9141 Semiconductor Processors	2,108	2,368	260	12.3%	260	529	789	Work Exp.	Post-sec.
51-9191 Cementing and Gluing Machine Operators and Tenders	285	320	35	12.3%	35	42	77	Moderate OJT	Work Exp.

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	2010	2020	Change	Percent Change	Due to Growth†	Due to Replacement	Total			
51-9192	Cleaning, Washing, and Pickling Equipment Operators and Tenders	408	450	42	10.3%	42	101	143	Moderate OJT	Work Exp.
51-9193	Cooling and Freezing Equipment Operators and Tenders	145	162	17	11.7%	17	36	53	Moderate OJT	Work Exp.
51-9194	Etchers and Engravers	105	122	17	16.2%	17	6	23	Long OJT	Post-sec.
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic*	304	368	64	21.1%	64	123	187	Moderate OJT	Work Exp.
51-9196	Paper Goods Machine Setters, Operators, and Tenders	1,055	908	-147	-13.9%	0	98	98	Moderate OJT	Work Exp.
51-9197	Tire Builders	125	154	29	23.2%	29	58	87	Moderate OJT	Work Exp.
51-9198	Production Worker's Helpers	3,349	3,964	615	18.4%	615	606	1,221	Short OJT	Work Exp.
51-9199	Production Workers, All Other	6,586	7,889	1,303	19.8%	1,303	1,894	3,197	Moderate OJT	Work Exp.
	Transportation and Material Moving	118,081	138,179	20,098	17.0%	20,098	32,308	52,406		
53-0000	Transportation and Material Moving Occupations	118,081	138,179	20,098	17.0%	20,098	32,308	52,406		
53-1000	Supervisors, Transportation and Material Moving Workers	4,807	5,652	845	17.6%	845	1,076	1,921		
53-1011	Aircraft Cargo Handling Supervisors	53	61	8	15.1%	8	12	20	Work Exp.	Work Exp.
53-1021	Supervisors and Managers of Transportation Helpers, Laborers, and Material Movers, Hand	1,839	2,179	340	18.5%	340	413	753	Work Exp.	Assoc.
53-1031	Supervisors and Managers of Transportation and Material-Moving Machine and Vehicle Operators	2,915	3,412	497	17.0%	497	651	1,148	Work Exp.	Bachelor's
53-2000	Air Transportation Workers	1,516	1,821	305	20.1%	305	632	937		
53-2011	Airline Pilots, Copilots, and Flight Engineers	561	650	89	15.9%	89	229	318	Assoc.	Bachelor's
53-2012	Commercial Pilots, Except Airline Pilots*	680	867	187	27.5%	187	293	480	Assoc.	Bachelor's
53-2021	Air Traffic Controllers	207	220	13	6.3%	13	81	94	Post-sec.	Post-sec. + Work Exp.
53-2022	Airfield Operations Specialists	68	84	16	23.5%	16	29	45	Long OJT	Work Exp.
53-3000	Motor Vehicle Operators	46,653	54,893	8,240	17.7%	8,240	9,918	18,158		
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	148	166	18	12.2%	18	30	48	Moderate OJT	Work Exp.
53-3021	Bus Drivers, Transit and Intercity	2,768	3,098	330	11.9%	330	567	897	Moderate OJT	Work Exp.
53-3022	Bus Drivers, School	6,149	6,837	688	11.2%	688	1,254	1,942	Short OJT	Work Exp.
53-3031	Driver/Sales Workers	6,173	7,226	1,053	17.1%	1,053	1,333	2,386	Short OJT	Work Exp.
53-3032	Truck Drivers, Heavy and Tractor-Trailer	20,706	24,947	4,241	20.5%	4,241	4,541	8,782	Post-sec.	Post-sec. + Work Exp.
53-3033	Truck Drivers, Light or Delivery Services	8,195	9,574	1,379	16.8%	1,379	1,767	3,146	Moderate OJT	Work Exp.
53-3041	Taxi Drivers and Chauffeurs*	1,457	1,749	292	20.0%	292	199	491	Short OJT	Work Exp.
53-3099	Motor Vehicle Operators, All Other	1,057	1,296	239	22.6%	239	227	466	Short OJT	Work Exp.
53-4000	Rail Transportation Workers	1,488	1,532	44	3.0%	44	497	541		
53-4011	Locomotive Engineers	396	402	6	1.5%	6	142	148	Moderate OJT	Work Exp.
53-4013	Rail Yard Engineers, Dinkey Operators, and Hostlers	37	48	11	29.7%	11	15	26	Moderate OJT	Work Exp.
53-4021	Railroad Brake, Signal, and Switch Operators	382	391	9	2.4%	9	127	136	Moderate OJT	Work Exp.
53-4031	Railroad Conductors and Yardmasters	475	478	3	0.6%	3	145	148	Moderate OJT	Work Exp.
53-4041	Subway and Streetcar Operators	172	187	15	8.7%	15	59	74	Moderate OJT	Work Exp.
53-4099	Rail Transportation Workers, All Other	26	26	0	0.0%	0	9	9	Moderate OJT	Work Exp.
53-5000	Water Transportation Workers	572	723	151	26.4%	151	261	412		
53-5011	Sailors and Marine Oilers	278	357	79	28.4%	79	136	215	Short OJT	Work Exp.
53-5021	Captains, Mates, and Pilots of Water Vessels	204	251	47	23.0%	47	84	131	Post-sec.	Post-sec. + Work Exp.
53-5022	Motorboat Operators	46	51	5	10.9%	5	18	23	Moderate OJT	Work Exp.
53-5031	Ship Engineers	44	64	20	45.5%	20	23	43	Work Exp.	Bachelor's
53-6000	Other Transportation Workers	9,877	10,539	662	6.7%	662	3,266	3,928		
53-6011	Bridge and Lock Tenders	36	37	1	2.8%	1	11	12	Short OJT	Work Exp.

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53-6021	Parking Lot Attendants	1,204	1,367	163	13.5%	163	383	546	Short OJT	Work Exp.
53-6031	Service Station Attendants	7,765	8,125	360	4.6%	360	2,610	2,970	Short OJT	Work Exp.
53-6041	Traffic Technicians	67	73	6	9.0%	6	21	27	Post-sec.	Bachelor's
53-6051	Transportation Inspectors	350	376	26	7.4%	26	89	115	Work Exp.	Post-sec.
53-6099	Transportation Workers, All Other	455	561	106	23.3%	106	152	258	Short OJT	Work Exp.
53-7000	Material Moving Workers	53,168	63,019	9,851	18.5%	9,851	16,658	26,509		
53-7011	Conveyor Operators and Tenders	254	298	44	17.3%	44	82	126	Short OJT	Work Exp.
53-7021	Crane and Tower Operators	471	575	104	22.1%	104	142	246	Long OJT	Work Exp.
53-7031	Dredge Operators	35	40	5	14.3%	5	11	16	Moderate OJT	Work Exp.
53-7032	Excavating and Loading Machine and Dragline Operators	905	1,123	218	24.1%	218	300	518	Moderate OJT	Work Exp.
53-7041	Hoist and Winch Operators	242	283	41	16.9%	41	93	134	Moderate OJT	Work Exp.
53-7051	Fork Lift, Industrial Truck and Tractor Operators	8,717	10,272	1,555	17.8%	1,555	2,690	4,245	Short OJT	Work Exp.
53-7061	Cleaners of Vehicles and Equipment	4,078	4,822	744	18.2%	744	1,321	2,065	Short OJT	Work Exp.
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	22,590	26,825	4,235	18.7%	4,235	7,898	12,133	Short OJT	Work Exp.
53-7063	Machine Feeders and Offbearers	4,780	5,421	641	13.4%	641	805	1,446	Short OJT	Work Exp.
53-7064	Packers and Packagers, Hand	7,935	9,314	1,379	17.4%	1,379	2,466	3,845	Short OJT	Work Exp.
53-7072	Pump Operators, Except Wellhead Pumpers	63	72	9	14.3%	9	20	29	Moderate OJT	Work Exp.
53-7081	Refuse and Recyclable Material Collectors	1,908	2,529	621	32.5%	621	657	1,278	Short OJT	Work Exp.
53-7121	Tank Car, Truck, and Ship Loaders	251	302	51	20.3%	51	82	133	Moderate OJT	Work Exp.
53-7199	Material Moving Workers, All Other	939	1,143	204	21.7%	204	91	295	Short OJT	Work Exp.
	Nonclassifiable††	25,168	26,572	1,404	5.6%	1,404	2,870	4,274		
66-0000	Nonclassifiable Occupations	25,168	26,572	1,404	5.6%	1,404	2,870	4,274		
66-2000	Nonclassifiable Occupations	25,168	26,572	1,404	5.6%	1,404	2,870	4,274		
66-2021	Leased Workers	6,840	7,674	834	12.2%	834	1,851	2,685		
66-2031	Sheltered Workshop Workers	1,237	1,356	119	9.6%	119	NA	119		
66-2041	Non-covered Agricultural Workers	3,345	3,345	0	0.0%	0	1,019	1,019		
66-2051	Home Care Workers	11,863	12,314	451	3.8%	451	NA	451		
66-2071	Census Workers	1,883	1,883	0	0	0	0	0		

*Self-employment is estimated to be 10% or greater for this occupation

**These employment estimates do not include self-employment

†Occupations with declining employment have zero growth openings.

††**Nonclassifiable employment**

Leased Workers: Workers employed by leasing agencies. The number of workers by occupation employed by leasing agencies is not available.

Sheltered Workshop Workers: Sheltered workshops are organizations that receive funding to employ workers with disabilities or work-related limitations. The number of workers by occupation employed in sheltered workshops is not available.

Noncovered Agricultural Workers: Workers employed by agricultural firms who are not covered by unemployment insurance. The number of noncovered agricultural workers by occupation is not available.

Home Care Workers: Workers who are paid through the state Senior and People with Disabilities Services program and who are directly employed by clients to whom they provide hourly or live-in services. Most of these workers are spouses, close relatives, or acquaintances of the client.