



**EMPLOYMENT PROJECTIONS BY
INDUSTRY AND OCCUPATION
2008-2018
Oregon Statewide**

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Oregon: Industry Employment Forecast, 2008-2018

	2008	2018	Change	% Change
Total payroll employment	1,765,900	1,926,200	160,300	9%
Total private	1,469,900	1,606,400	136,500	9%
Natural resources and mining	56,200	57,900	1,700	3%
Mining and logging	8,700	7,800	-900	-10%
Logging	6,700	6,300	-400	-6%
Construction	94,300	95,000	700	1%
Construction of buildings	23,100	23,500	400	2%
Residential building construction	13,500	14,000	500	4%
Nonresidential building construction	9,600	9,500	-100	-1%
Heavy and civil engineering construction	11,500	11,500	0	0%
Specialty trade contractors	59,700	60,000	300	1%
Building foundation and exterior contractors	11,900	12,000	100	1%
Building equipment contractors	24,500	24,600	100	0%
Building finishing contractors	14,800	14,800	0	0%
Other specialty trade contractors	8,500	8,600	100	1%
Manufacturing	195,400	190,100	-5,300	-3%
Durable goods	142,900	137,800	-5,100	-4%
Wood product manufacturing	26,700	26,000	-700	-3%
Sawmills and wood preservation	7,500	7,500	0	0%
Plywood and engineered wood product mfg.	9,100	8,500	-600	-7%
Other wood product manufacturing	10,100	10,000	-100	-1%
Primary metal manufacturing	9,700	8,800	-900	-9%
Fabricated metal product manufacturing	17,200	17,000	-200	-1%
Machinery manufacturing	11,900	11,000	-900	-8%
Computer and electronic product manufacturing	38,900	37,900	-1,000	-3%
Computer and peripheral equipment mfg.	3,600	3,500	-100	-3%
Semiconductor and electronic component mfg.	27,900	27,100	-800	-3%
Electronic instrument manufacturing	5,800	5,700	-100	-2%
Transportation equipment manufacturing	15,200	14,700	-500	-3%
Nondurable goods	52,500	52,300	-200	0%
Food manufacturing	23,500	25,200	1,700	7%
Fruit and vegetable preserving and specialty	9,800	10,500	700	7%
Paper manufacturing	6,000	4,800	-1,200	-20%
Trade, transportation, and utilities	336,400	367,300	30,900	9%
Wholesale trade	80,700	88,000	7,300	9%
Merchant wholesalers, durable goods	36,200	38,000	1,800	5%
Merchant wholesalers, nondurable goods	31,300	34,200	2,900	9%
Electronic markets and agents and brokers	13,200	15,800	2,600	20%
Retail trade	197,000	216,900	19,900	10%
Motor vehicle and parts dealers	25,500	27,100	1,600	6%
Building material and garden supply stores	15,000	16,000	1,000	7%
Food and beverage stores	38,700	43,500	4,800	12%
Clothing and clothing accessories stores	17,100	19,200	2,100	12%
Sporting goods, hobby, book and music stores	10,300	10,600	300	3%
General merchandise stores	38,800	42,700	3,900	10%
Miscellaneous store retailers	11,200	12,600	1,400	13%
Nonstore retailers	7,100	8,000	900	13%
Transportation, warehousing, and utilities	58,700	62,400	3,700	6%
Utilities	4,800	4,800	0	0%
Transportation and warehousing	53,900	57,600	3,700	7%
Air transportation	4,500	4,800	300	7%
Truck transportation	18,800	20,400	1,600	9%
Couriers and messengers	6,700	7,000	300	4%
Warehousing and storage	7,900	8,200	300	4%

	2008	2018	Change	% Change
Information	36,100	37,000	900	2%
Publishing industries, except internet	6,700	6,300	-400	-6%
Newspaper, book, and directory publishers	6,400	5,900	-500	-8%
Software publishers	9,300	10,200	900	10%
Telecommunications	8,100	7,800	-300	-4%
Financial activities	101,300	105,100	3,800	4%
Finance and insurance	60,800	64,400	3,600	6%
Credit intermediation and related activities	28,700	30,500	1,800	6%
Insurance carriers and related activities	26,800	28,500	1,700	6%
Real estate and rental and leasing	40,600	40,700	100	0%
Real estate	33,000	33,000	0	0%
Professional and business services	197,100	224,700	27,600	14%
Professional and technical services	73,300	88,000	14,700	20%
Legal services	12,300	14,200	1,900	15%
Architectural and engineering services	15,100	17,300	2,200	15%
Computer systems design and related services	9,900	12,000	2,100	21%
Management of companies and enterprises	32,000	35,000	3,000	9%
Administrative and waste services	91,800	101,700	9,900	11%
Administrative and support services	86,300	95,900	9,600	11%
Employment services	36,200	39,100	2,900	8%
Business support services	14,600	16,100	1,500	10%
Services to buildings and dwellings	21,000	24,100	3,100	15%
Educational and health services	219,500	269,300	49,800	23%
Educational services	29,700	32,300	2,600	9%
Health care and social assistance	189,800	237,000	47,200	25%
Ambulatory health care services	67,600	86,200	18,600	28%
Hospitals	52,800	64,600	11,800	22%
Nursing and residential care facilities	40,000	50,500	10,500	26%
Social assistance	29,400	35,700	6,300	21%
Leisure and hospitality	173,100	194,600	21,500	12%
Arts, entertainment, and recreation	23,200	26,400	3,200	14%
Amusement, gambling, and recreation	17,400	19,900	2,500	14%
Accommodation and food services	149,900	168,200	18,300	12%
Accommodation	22,100	24,800	2,700	12%
Food services and drinking places	127,800	143,500	15,700	12%
Full-service restaurants	62,800	69,700	6,900	11%
Limited-service eating places	54,300	61,900	7,600	14%
Other services	60,500	65,400	4,900	8%
Repair and maintenance	17,200	19,200	2,000	12%
Personal and laundry services	13,500	14,800	1,300	10%
Membership associations and organizations	29,100	30,600	1,500	5%
Religious organizations	17,100	18,100	1,000	6%
Government	296,000	319,800	23,800	8%
Federal government	29,500	29,000	-500	-2%
State government	77,000	83,100	6,100	8%
State education	28,400	29,300	900	3%
Local government	189,500	207,700	18,200	10%
Indian tribal	8,600	9,800	1,200	14%
Local education	99,100	104,400	5,300	5%

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

Farm employment is included in natural resources and mining.

Previous industry projections were limited to nonfarm employment.

Occupational Employment Projections, 2008-2018

Oregon Statewide

Standard Occupational Classification Code and Title	Employment				2008-2018 Openings			Minimum Education	Competitive Education
	2008	2018	Change	Percent Change	Due to Growth*	Due to Replacement	Total		
Total All Occupations	1,765,241	1,925,192	159,951	9.1%	163,441	430,840	594,281		
Management, Business, and Financial	152,833	165,186	12,353	8.1%	12,382	35,470	47,852		
11-0000 Management Occupations	81,362	87,904	6,542	8.0%	6,571	20,230	26,801		
11-1000 Top Executives	22,161	24,023	1,862	8.4%	1,862	6,676	8,538		
11-1011 Chief Executives	1,615	1,740	125	7.7%	125	472	597	Bachelor's	Bachelor's + Work Exp.
11-1021 General and Operations Managers	20,379	22,104	1,725	8.5%	1,725	6,155	7,880	Bachelor's	Bachelor's + Work Exp.
11-1031 Legislators	167	179	12	7.2%	12	49	61	Bachelor's	Bachelor's + Work Exp.
11-2000 Advertising, Marketing, Promotions, Public Relations, and Sales Managers	8,191	8,880	689	8.4%	689	1,875	2,564		
11-2011 Advertising and Promotions Managers	667	754	87	13.0%	87	166	253	Bachelor's	Bachelor's + Work Exp.
11-2021 Marketing Managers	2,869	3,080	211	7.4%	211	641	852	Bachelor's	Bachelor's + Work Exp.
11-2022 Sales Managers	3,512	3,765	253	7.2%	253	784	1,037	Bachelor's	Bachelor's + Work Exp.
11-2031 Public Relations Managers	1,143	1,281	138	12.1%	138	284	422	Bachelor's	Bachelor's + Work Exp.
11-3000 Operations Specialties Managers	16,218	17,308	1,090	6.7%	1,103	3,779	4,882		
11-3011 Administrative Services Managers	2,014	2,210	196	9.7%	196	442	638	Bachelor's	Bachelor's + Work Exp.
11-3021 Computer and Information Systems Managers	3,178	3,488	310	9.8%	310	541	851	Bachelor's	Bachelor's + Work Exp.
11-3031 Financial Managers	4,268	4,590	322	7.5%	322	796	1,118	Bachelor's	Bachelor's + Work Exp.
11-3041 Compensation and Benefits Managers	194	209	15	7.7%	15	43	58	Bachelor's	Bachelor's + Work Exp.
11-3042 Training and Development Managers	244	262	18	7.4%	18	54	72	Bachelor's	Bachelor's + Work Exp.
11-3049 Human Resources Managers, All Other	1,199	1,298	99	8.3%	99	266	365	Bachelor's	Bachelor's + Work Exp.
11-3051 Industrial Production Managers	2,655	2,642	-13	-0.5%	0	929	929	Bachelor's	Bachelor's + Work Exp.
11-3061 Purchasing Managers	1,013	1,055	42	4.1%	42	294	336	Bachelor's	Bachelor's + Work Exp.
11-3071 Transportation, Storage, and Distribution Managers	1,453	1,554	101	7.0%	101	414	515	Bachelor's	Bachelor's + Work Exp.
11-9000 Other Management Occupations	34,792	37,693	2,901	8.3%	2,917	7,900	10,817		
11-9011 Farm, Ranch, and Other Agricultural Managers	1,636	1,725	89	5.4%	89	341	430	Work Exp.	Bachelor's + Work Exp.
11-9021 Construction Managers	3,091	3,177	86	2.8%	86	244	330	Work Exp.	Bachelor's + Work Exp.
11-9031 Preschool and Child Care Administrators	691	813	122	17.7%	122	225	347	Assoc.	Bachelor's
11-9032 Elementary and Secondary School Administrators	2,203	2,342	139	6.3%	139	680	819	Bachelor's	Master's
11-9033 Postsecondary School Administrators	1,581	1,687	106	6.7%	106	489	595	Master's	PhD
11-9039 Education Administrators, All Other	245	265	20	8.2%	20	76	96	Master's	PhD
11-9041 Engineering Managers	3,167	3,224	57	1.8%	57	649	706	Bachelor's	Bachelor's + Work Exp.
11-9051 Food Service Managers	2,640	2,968	328	12.4%	328	544	872	Work Exp.	Assoc.
11-9061 Funeral Directors	294	318	24	8.2%	24	62	86	Assoc.	Assoc. + Work Exp.
11-9071 Gaming Managers	62	70	8	12.9%	8	13	21	Assoc.	Assoc. + Work Exp.
11-9081 Lodging Managers	788	889	101	12.8%	101	179	280	Work Exp.	Assoc.
11-9111 Medical and Health Services Managers	3,112	3,763	651	20.9%	651	655	1,306	Bachelor's	Master's
11-9121 Natural Sciences Managers	771	809	38	4.9%	38	233	271	Bachelor's	Master's
11-9131 Postmasters and Mail Superintendents	321	305	-16	-5.0%	0	64	64	Work Exp.	Bachelor's
11-9141 Property, Real Estate, and Community Association Managers	3,464	3,534	70	2.0%	70	603	673	Work Exp.	Post-sec.
11-9151 Social and Community Service Managers	2,166	2,540	374	17.3%	374	544	918	Bachelor's	Bachelor's + Work Exp.
11-9199 Managers, All Other	8,560	9,264	704	8.2%	704	2,299	3,003	Bachelor's	Bachelor's + Work Exp.
13-0000 Business and Financial Operations Occupations	71,471	77,282	5,811	8.1%	5,811	15,240	21,051		
13-1000 Business Operations Specialists	45,158	48,405	3,247	7.2%	3,247	10,590	13,837		
13-1011 Agents and Business Managers of Artists, Performers, and Athletes	104	124	20	19.2%	20	25	45	Bachelor's	Bachelor's + Work Exp.

Occupational Employment Projections, 2008-2018

Oregon Statewide

Standard Occupational Classification Code and Title	Employment				2008-2018 Openings			Minimum Education	Competitive Education
	2008	2018	Change	Percent Change	Due to Growth*	Due to Replacement	Total		
13-1021 Purchasing Agents and Buyers, Farm Products	730	767	37	5.1%	37	166	203	Bachelor's	Bachelor's + Work Exp.
13-1022 Wholesale and Retail Buyers, Except Farm Products	2,567	2,816	249	9.7%	249	673	922	Bachelor's	Bachelor's + Work Exp.
13-1023 Purchasing Agents, Except Wholesale, Retail, and Farm Products	3,851	3,976	125	3.2%	125	1,030	1,155	Bachelor's	Bachelor's + Work Exp.
13-1031 Claims Investigators, Examiners, and Adjusters	3,320	3,540	220	6.6%	220	870	1,090	Long OJT	Bachelor's
13-1032 Insurance Appraisers, Vehicle Damage	56	59	3	5.4%	3	15	18	Long OJT	Bachelor's
13-1041 Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation	2,718	2,863	145	5.3%	145	297	442	Long OJT	Work Exp.
13-1051 Cost Estimators	3,510	3,542	32	0.9%	32	783	815	Moderate OJT	Bachelor's
13-1061 Emergency Management Specialists	155	174	19	12.3%	19	37	56	Work Exp.	Bachelor's
13-1071 Employment, Recruitment, and Placement Specialists	1,947	2,156	209	10.7%	209	536	745	Bachelor's	Bachelor's + Work Exp.
13-1072 Compensation, Benefits, and Job Analysis Specialists	1,037	1,134	97	9.4%	97	283	380	Bachelor's	Bachelor's + Work Exp.
13-1073 Training and Development Specialists	2,829	3,099	270	9.5%	270	774	1,044	Bachelor's	Bachelor's + Work Exp.
13-1079 Human Resources, Training, and Labor Relations Specialists, All Other	4,020	4,311	291	7.2%	291	1,087	1,378	Bachelor's	Bachelor's + Work Exp.
13-1081 Logisticians	742	758	16	2.2%	16	167	183	Bachelor's	Bachelor's + Work Exp.
13-1111 Management Analysts	4,220	4,596	376	8.9%	376	756	1,132	Bachelor's	Master's
13-1121 Meeting and Convention Planners	499	549	50	10.0%	50	116	166	Work Exp.	Bachelor's
13-1199 Business Operations Specialists, All Other	12,853	13,941	1,088	8.5%	1,088	2,975	4,063	Bachelor's	Bachelor's + Work Exp.
13-2000 Financial Specialists	26,313	28,877	2,564	9.7%	2,564	4,650	7,214		
13-2011 Accountants and Auditors	11,483	12,838	1,355	11.8%	1,355	2,055	3,410	Bachelor's	Bachelor's + Work Exp.
13-2021 Appraisers and Assessors of Real Estate	1,249	1,309	60	4.8%	60	232	292	Post-sec.	Bachelor's
13-2031 Budget Analysts	732	782	50	6.8%	50	137	187	Bachelor's	Bachelor's + Work Exp.
13-2041 Credit Analysts	573	616	43	7.5%	43	108	151	Bachelor's	Bachelor's + Work Exp.
13-2051 Financial Analysts	1,620	1,726	106	6.5%	106	304	410	Bachelor's	Master's
13-2052 Personal Financial Advisors	704	749	45	6.4%	45	78	123	Bachelor's	Bachelor's + Work Exp.
13-2053 Insurance Underwriters	1,043	1,109	66	6.3%	66	314	380	Bachelor's	Bachelor's + Work Exp.
13-2061 Financial Examiners	148	155	7	4.7%	7	28	35	Bachelor's	Bachelor's + Work Exp.
13-2071 Loan Counselors	461	508	47	10.2%	47	53	100	Bachelor's	Bachelor's + Work Exp.
13-2072 Loan Officers	4,083	4,332	249	6.1%	249	460	709	Bachelor's	Bachelor's + Work Exp.
13-2081 Tax Examiners, Collectors, and Revenue Agents	580	596	16	2.8%	16	208	224	Bachelor's	Bachelor's + Work Exp.
13-2082 Tax Preparers	1,718	2,062	344	20.0%	344	309	653	Post-sec.	Post-sec. + Work Exp.
13-2099 Financial Specialists, All Other	1,919	2,095	176	9.2%	176	364	540	Bachelor's	Bachelor's + Work Exp.
Professional and Related	275,634	299,016	23,382	8.5%	23,578	63,810	87,388		
15-0000 Computer and Mathematical Science Occupations	38,901	42,762	3,861	9.9%	3,861	7,499	11,360		
15-1000 Computer Specialists	37,832	41,579	3,747	9.9%	3,747	7,169	10,916		
15-1011 Computer and Information Scientists, Research	199	204	5	2.5%	5	43	48	Master's	Master's + Work Exp.
15-1021 Computer Programmers	3,264	3,646	382	11.7%	382	650	1,032	Bachelor's	Bachelor's + Work Exp.
15-1031 Computer Software Engineers, Applications	8,205	9,020	815	9.9%	815	724	1,539	Bachelor's	Bachelor's + Work Exp.
15-1032 Computer Software Engineers, Systems Software	2,185	2,374	189	8.6%	189	192	381	Bachelor's	Bachelor's + Work Exp.
15-1041 Computer Support Specialists	7,279	8,017	738	10.1%	738	2,117	2,855	Post-sec.	Bachelor's
15-1051 Computer Systems Analysts	4,252	4,697	445	10.5%	445	965	1,410	Bachelor's	Bachelor's + Work Exp.
15-1061 Database Administrators	1,207	1,334	127	10.5%	127	212	339	Bachelor's	Master's
15-1071 Network and Computer Systems Administrators	3,546	3,906	360	10.2%	360	621	981	Bachelor's	Bachelor's + Work Exp.
15-1081 Network Systems and Data Communications Analysts	2,322	2,556	234	10.1%	234	438	672	Bachelor's	Bachelor's + Work Exp.
15-1099 Computer Specialists, All Other	5,373	5,825	452	8.4%	452	1,207	1,659	Post-sec.	Bachelor's

Occupational Employment Projections, 2008-2018

Oregon Statewide

Standard Occupational Classification Code and Title		Employment				2008-2018 Openings			Minimum Education	Competitive Education
		2008	2018	Change	Percent Change	Due to Growth*	Due to Replacement	Total		
15-2000	Mathematical Science Occupations	1,069	1,183	114	10.7%	114	330	444		
15-2011	Actuaries	163	183	20	12.3%	20	51	71	Bachelor's	Master's
15-2021	Mathematicians	4	4	0	0.0%	0	1	1	PhD	PhD + Work Exp.
15-2031	Operations Research Analysts	298	329	31	10.4%	31	91	122	Bachelor's	Master's
15-2041	Statisticians	554	612	58	10.5%	58	172	230	Bachelor's	Master's
15-2091	Mathematical Technicians	50	55	5	10.0%	5	15	20	Assoc.	Bachelor's
17-0000	Architecture and Engineering Occupations	36,655	38,313	1,658	4.5%	1,823	7,975	9,798		
17-1000	Architects, Surveyors, and Cartographers	3,343	3,800	457	13.7%	457	701	1,158		
17-1011	Architects, Except Landscape and Naval	1,970	2,257	287	14.6%	287	357	644	Bachelor's	Master's
17-1012	Landscape Architects	304	347	43	14.1%	43	55	98	Bachelor's	Bachelor's + Work Exp.
17-1021	Cartographers and Photogrammetrists	379	420	41	10.8%	41	102	143	Bachelor's	Bachelor's + Work Exp.
17-1022	Surveyors	690	776	86	12.5%	86	187	273	Bachelor's	Bachelor's + Work Exp.
17-2000	Engineers	18,292	18,918	626	3.4%	720	4,309	5,029		
17-2011	Aerospace Engineers	118	135	17	14.4%	17	26	43	Bachelor's	Master's
17-2021	Agricultural Engineers	39	42	3	7.7%	3	8	11	Bachelor's	Master's
17-2031	Biomedical Engineers	59	65	6	10.2%	6	13	19	Bachelor's	Master's
17-2041	Chemical Engineers	318	337	19	6.0%	19	80	99	Bachelor's	Master's
17-2051	Civil Engineers	3,208	3,517	309	9.6%	309	568	877	Bachelor's	Master's
17-2061	Computer Hardware Engineers	2,924	2,905	-19	-0.6%	0	806	806	Bachelor's	Master's
17-2071	Electrical Engineers	1,227	1,299	72	5.9%	72	290	362	Bachelor's	Master's
17-2072	Electronics Engineers, Except Computer	1,475	1,520	45	3.1%	45	344	389	Bachelor's	Master's
17-2081	Environmental Engineers	442	493	51	11.5%	51	97	148	Bachelor's	Master's
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	195	194	-1	-0.5%	0	50	50	Bachelor's	Master's
17-2112	Industrial Engineers	2,911	2,849	-62	-2.1%	0	735	735	Bachelor's	Master's
17-2121	Marine Engineers and Naval Architects	6	17	11	183.3%	11	2	13	Bachelor's	Master's
17-2131	Materials Engineers	454	442	-12	-2.6%	0	107	107	Bachelor's	Master's
17-2141	Mechanical Engineers	2,880	2,983	103	3.6%	103	753	856	Bachelor's	Master's
17-2199	Engineers, All Other	2,036	2,120	84	4.1%	84	430	514	Bachelor's	Master's
17-3000	Drafters, Engineering, and Mapping Technicians	15,020	15,595	575	3.8%	646	2,965	3,611		
17-3011	Architectural and Civil Drafters	1,716	1,909	193	11.2%	193	389	582	Post-sec.	Post-sec. + Work Exp.
17-3012	Electrical and Electronics Drafters	267	284	17	6.4%	17	59	76	Post-sec.	Post-sec. + Work Exp.
17-3013	Mechanical Drafters	802	812	10	1.2%	10	173	183	Post-sec.	Post-sec. + Work Exp.
17-3019	Drafters, All Other	508	528	20	3.9%	20	111	131	Post-sec.	Post-sec. + Work Exp.
17-3022	Civil Engineering Technicians	1,161	1,269	108	9.3%	108	230	338	Assoc.	Assoc. + Work Exp.
17-3023	Electrical and Electronic Engineering Technicians	2,836	2,859	23	0.8%	23	538	561	Assoc.	Assoc. + Work Exp.
17-3024	Electro-Mechanical Technicians	142	150	8	5.6%	8	28	36	Assoc.	Assoc. + Work Exp.
17-3025	Environmental Engineering Technicians	203	231	28	13.8%	28	41	69	Assoc.	Assoc. + Work Exp.
17-3026	Industrial Engineering Technicians	3,737	3,666	-71	-1.9%	0	700	700	Assoc.	Assoc. + Work Exp.
17-3027	Mechanical Engineering Technicians	549	583	34	6.2%	34	107	141	Assoc.	Assoc. + Work Exp.
17-3029	Engineering Technicians, All Other	1,675	1,691	16	1.0%	16	318	334	Assoc.	Assoc. + Work Exp.
17-3031	Surveying and Mapping Technicians	1,424	1,613	189	13.3%	189	271	460	Moderate OJT	Post-sec.
19-0000	Life, Physical, and Social Science Occupations	23,759	25,777	2,018	8.5%	2,018	7,786	9,804		
19-1000	Life Scientists	6,396	6,864	468	7.3%	468	1,570	2,038		
19-1011	Animal Scientists	26	29	3	11.5%	3	10	13	Bachelor's	Master's
19-1012	Food Scientists and Technologists	142	154	12	8.5%	12	52	64	Bachelor's	Master's

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Oregon Statewide

Standard Occupational Classification Code and Title		Employment				2008-2018 Openings			Minimum Education	Competitive Education
		2008	2018	Change	Percent Change	Due to Growth*	Due to Replacement	Total		
19-1013	Soil and Plant Scientists	542	588	46	8.5%	46	197	243	Bachelor's	Master's
19-1021	Biochemists and Biophysicists	73	83	10	13.7%	10	25	35	Master's	PhD
19-1022	Microbiologists	96	104	8	8.3%	8	32	40	Bachelor's	Master's
19-1023	Zoologists and Wildlife Biologists	1,231	1,348	117	9.5%	117	415	532	Bachelor's	Master's
19-1029	Biological Scientists, All Other	1,072	1,104	32	3.0%	32	350	382	Bachelor's	Bachelor's + Work Exp.
19-1031	Conservation Scientists	440	454	14	3.2%	14	48	62	Bachelor's	Master's
19-1032	Foresters	1,480	1,489	9	0.6%	9	158	167	Bachelor's	Master's
19-1041	Epidemiologists	52	57	5	9.6%	5	11	16	PhD	PhD + Work Exp.
19-1042	Medical Scientists, Except Epidemiologists	1,137	1,331	194	17.1%	194	249	443	PhD	PhD + Work Exp.
19-1099	Life Scientists, All Other	105	123	18	17.1%	18	23	41	Bachelor's	Master's
19-2000	Physical Scientists	2,754	3,012	258	9.4%	258	836	1,094		
19-2011	Astronomers	1	1	0	0.0%	0	0	0	Master's	PhD
19-2012	Physicists	90	104	14	15.6%	14	28	42	Master's	PhD
19-2021	Atmospheric and Space Scientists	93	93	0	0.0%	0	19	19	Bachelor's	Master's
19-2031	Chemists	587	660	73	12.4%	73	207	280	Bachelor's	Master's
19-2032	Materials Scientists	61	63	2	3.3%	2	21	23	Bachelor's	Master's
19-2041	Environmental Scientists and Specialists, Including Health	1,105	1,194	89	8.1%	89	327	416	Bachelor's	Master's
19-2042	Geoscientists, Except Hydrologists and Geographers	273	309	36	13.2%	36	83	119	Bachelor's	Master's
19-2043	Hydrologists	212	227	15	7.1%	15	62	77	Bachelor's	Master's
19-2099	Physical Scientists, All Other	332	361	29	8.7%	29	89	118	Bachelor's	Master's
19-3000	Social Scientists and Related Workers	5,462	6,188	726	13.3%	726	1,656	2,382		
19-3011	Economists	373	437	64	17.2%	64	115	179	Bachelor's	Master's
19-3021	Market Research Analysts	1,485	1,605	120	8.1%	120	416	536	Bachelor's	Master's
19-3022	Survey Researchers	355	442	87	24.5%	87	107	194	Bachelor's	Master's
19-3031	Clinical, Counseling, and School Psychologists	1,108	1,302	194	17.5%	194	342	536	Master's	PhD
19-3032	Industrial-Organizational Psychologists	16	18	2	12.5%	2	5	7	Master's	PhD
19-3039	Psychologists, All Other	173	198	25	14.5%	25	53	78	Master's	PhD
19-3041	Sociologists	31	37	6	19.4%	6	7	13	Master's	PhD
19-3051	Urban and Regional Planners	1,250	1,405	155	12.4%	155	256	411	Bachelor's	Master's
19-3091	Anthropologists and Archeologists	142	154	12	8.5%	12	74	86	Bachelor's	Master's
19-3092	Geographers	62	68	6	9.7%	6	33	39	Bachelor's	Master's
19-3099	Social Scientists and Related Workers, All Other	467	522	55	11.8%	55	248	303	Bachelor's	Master's
19-4000	Life, Physical, and Social Science Technicians	9,147	9,713	566	6.2%	566	3,724	4,290		
19-4011	Agricultural and Food Science Technicians	338	373	35	10.4%	35	125	160	Assoc.	Assoc. + Work Exp.
19-4021	Biological Technicians	2,510	2,747	237	9.4%	237	921	1,158	Assoc.	Bachelor's
19-4031	Chemical Technicians	353	393	40	11.3%	40	75	115	Assoc.	Bachelor's
19-4041	Geological and Petroleum Technicians	41	45	4	9.8%	4	15	19	Assoc.	Assoc. + Work Exp.
19-4051	Nuclear Technicians	5	5	0	0.0%	0	2	2	Assoc.	Assoc. + Work Exp.
19-4061	Social Science Research Assistants	477	542	65	13.6%	65	219	284	Post-sec.	Bachelor's
19-4091	Environmental Science and Protection Technicians, Including Health	364	410	46	12.6%	46	166	212	Assoc.	Bachelor's
19-4092	Forensic Science Technicians	204	224	20	9.8%	20	92	112	Bachelor's	Master's
19-4093	Forest and Conservation Technicians	3,934	3,948	14	0.4%	14	1,691	1,705	Moderate OJT	Bachelor's
19-4099	Life, Physical, and Social Science Technicians, All Other	921	1,026	105	11.4%	105	418	523	Assoc.	Bachelor's
21-0000	Community and Social Service Occupations	32,496	37,227	4,731	14.6%	4,731	7,535	12,266		

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21-1000 Counselors, Social Workers, and Other Community and Social Service Specialists	26,521	30,838	4,317	16.3%	4,317	6,324	10,641		
21-1011 Substance Abuse and Behavioral Disorder Counselors	2,328	2,796	468	20.1%	468	518	986	Assoc.	Bachelor's
21-1012 Educational, Vocational, and School Counselors	2,553	2,751	198	7.8%	198	536	734	Master's	Master's + Work Exp.
21-1013 Marriage and Family Therapists	317	397	80	25.2%	80	72	152	Master's	Master's + Work Exp.
21-1014 Mental Health Counselors	1,675	2,030	355	21.2%	355	375	730	Master's	Master's + Work Exp.
21-1015 Rehabilitation Counselors	1,726	2,067	341	19.8%	341	384	725	Master's	Master's + Work Exp.
21-1019 Counselors, All Other	169	199	30	17.8%	30	37	67	Master's	Master's + Work Exp.
21-1021 Child, Family, and School Social Workers	3,332	3,785	453	13.6%	453	894	1,347	Bachelor's	Master's
21-1022 Medical and Public Health Social Workers	1,261	1,521	260	20.6%	260	349	609	Bachelor's	Master's
21-1023 Mental Health and Substance Abuse Social Workers	1,675	2,057	382	22.8%	382	469	851	Master's	Master's + Work Exp.
21-1029 Social Workers, All Other	1,768	1,993	225	12.7%	225	472	697	Bachelor's	Master's
21-1091 Health Educators	865	1,014	149	17.2%	149	199	348	Bachelor's	Master's
21-1092 Probation Officers and Correctional Treatment Specialists	2,025	2,234	209	10.3%	209	451	660	Bachelor's	Bachelor's + Work Exp.
21-1093 Social and Human Service Assistants	5,648	6,668	1,020	18.1%	1,020	1,303	2,323	Moderate OJT	Assoc.
21-1099 Community and Social Service Specialists, All Other	1,179	1,326	147	12.5%	147	265	412	Moderate OJT	Assoc.
21-2000 Religious Workers	5,975	6,389	414	6.9%	414	1,211	1,625		
21-2011 Clergy	3,804	4,081	277	7.3%	277	780	1,057	Bachelor's	1st Prof.
21-2021 Directors, Religious Activities and Education	1,670	1,774	104	6.2%	104	348	452	Bachelor's	Bachelor's + Work Exp.
21-2099 Religious Workers, All Other	501	534	33	6.6%	33	83	116	Bachelor's	Bachelor's + Work Exp.
23-0000 Legal Occupations	9,842	11,022	1,180	12.0%	1,180	1,706	2,886		
23-1000 Lawyers, Judges, and Related Workers	5,791	6,485	694	12.0%	694	1,146	1,840		
23-1011 Lawyers	4,978	5,607	629	12.6%	629	989	1,618	1st Prof.	1st Prof. + Work Exp.
23-1021 Administrative Law Judges, Adjudicators, and Hearing Officers	334	353	19	5.7%	19	64	83	1st Prof.	1st Prof. + Work Exp.
23-1022 Arbitrators, Mediators, and Conciliators	103	116	13	12.6%	13	20	33	Bachelor's	1st Prof.
23-1023 Judges and Magistrates	376	409	33	8.8%	33	73	106	1st Prof.	1st Prof. + Work Exp.
23-2000 Legal Support Workers	4,051	4,537	486	12.0%	486	560	1,046		
23-2011 Paralegals and Legal Assistants	2,003	2,266	263	13.1%	263	242	505	Assoc.	Bachelor's
23-2091 Court Reporters	148	163	15	10.1%	15	23	38	Post-sec.	Post-sec. + Work Exp.
23-2092 Law Clerks	173	198	25	14.5%	25	27	52	Bachelor's	Bachelor's + Work Exp.
23-2093 Title Examiners, Abstractors, and Searchers	1,335	1,484	149	11.2%	149	208	357	Moderate OJT	Post-sec.
23-2099 Legal Support Workers, All Other	392	426	34	8.7%	34	60	94	Post-sec.	Assoc.
25-0000 Education, Training, and Library Occupations	110,129	117,950	7,821	7.1%	7,821	24,962	32,783		
25-1000 Postsecondary Teachers	20,078	21,488	1,410	7.0%	1,410	3,620	5,030		
25-1191 Graduate Teaching Assistants	2,394	2,481	87	3.6%	87	425	512	Bachelor's	Master's
25-1199 Postsecondary Teachers, Except Graduate Teaching Assistants	17,684	19,007	1,323	7.5%	1,323	3,195	4,518	Master's	PhD
25-2000 Primary, Secondary, and Special Education Teachers	45,208	48,513	3,305	7.3%	3,305	11,331	14,636		
25-2011 Preschool Teachers, Except Special Education	5,321	6,262	941	17.7%	941	1,161	2,102	Post-sec.	Bachelor's
25-2012 Kindergarten Teachers, Except Special Education	1,722	1,861	139	8.1%	139	359	498	Bachelor's	Master's
25-2021 Elementary School Teachers, Except Special Education	15,193	16,059	866	5.7%	866	3,553	4,419	Bachelor's	Master's
25-2022 Middle School Teachers, Except Special and Vocational Education	7,169	7,574	405	5.6%	405	1,676	2,081	Bachelor's	Master's
25-2023 Vocational Education Teachers, Middle School	139	146	7	5.0%	7	32	39	Bachelor's	Master's

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25-2031	Secondary School Teachers, Except Special and Vocational Education	11,010	11,655	645	5.9%	645	3,293	3,938	Bachelor's	Master's
25-2032	Vocational Education Teachers, Secondary School	346	366	20	5.8%	20	103	123	Bachelor's	Master's
25-2041	Special Education Teachers, Preschool, Kindergarten, and Elementary School	1,974	2,113	139	7.0%	139	530	669	Bachelor's	Master's
25-2042	Special Education Teachers, Middle School	806	856	50	6.2%	50	216	266	Bachelor's	Master's
25-2043	Special Education Teachers, Secondary School	1,528	1,621	93	6.1%	93	408	501	Bachelor's	Master's
25-3000	Other Teachers and Instructors	7,448	8,042	594	8.0%	594	1,190	1,784		
25-3011	Adult Literacy, Remedial Education, and GED Teachers and Instructors	852	921	69	8.1%	69	136	205	Bachelor's	Master's
25-3021	Self-Enrichment Education Teachers	1,588	1,734	146	9.2%	146	255	401	Work Exp.	Post-sec.
25-3099	Teachers and Instructors, All Other	5,008	5,387	379	7.6%	379	799	1,178	Bachelor's	Master's
25-4000	Librarians, Curators, and Archivists	3,598	3,916	318	8.8%	318	1,304	1,622		
25-4011	Archivists	52	57	5	9.6%	5	16	21	Master's	Master's + Work Exp.
25-4012	Curators	125	136	11	8.8%	11	39	50	Master's	Master's + Work Exp.
25-4013	Museum Technicians and Conservators	70	76	6	8.6%	6	22	28	Bachelor's	Master's
25-4021	Librarians	1,772	1,926	154	8.7%	154	486	640	Master's	Master's + Work Exp.
25-4031	Library Technicians	1,579	1,721	142	9.0%	142	741	883	Moderate OJT	Assoc.
25-9000	Other Education, Training, and Library Occupations	33,797	35,991	2,194	6.5%	2,194	7,517	9,711		
25-9011	Audio-Visual Specialists, Education-related	81	88	7	8.6%	7	19	26	Moderate OJT	Assoc.
25-9021	Farm and Home Management Advisors	136	144	8	5.9%	8	31	39	Bachelor's	Bachelor's + Work Exp.
25-9031	Instructional Coordinators	1,624	1,769	145	8.9%	145	374	519	Bachelor's	Master's
25-9041	Teacher Assistants	18,858	20,292	1,434	7.6%	1,434	4,142	5,576	Work Exp.	Assoc.
25-9099	Education, Training, and Library, All Other	13,098	13,698	600	4.6%	600	2,951	3,551	Bachelor's	Bachelor's + Work Exp.
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	23,852	25,965	2,113	8.9%	2,144	6,347	8,491		
27-1000	Art and Design Workers	8,016	8,887	871	10.9%	872	2,469	3,341		
27-1011	Art Directors	495	585	90	18.2%	90	121	211	Bachelor's	Master's
27-1012	Craft Artists	48	49	1	2.1%	1	11	12	Moderate OJT	Post-sec.
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	216	232	16	7.4%	16	50	66	Long OJT	Bachelor's
27-1014	Multi-Media Artists and Animators	442	498	56	12.7%	56	105	161	Bachelor's	Master's
27-1019	Artists and Related Workers, All Other	220	248	28	12.7%	28	52	80	Bachelor's	Master's
27-1021	Commercial and Industrial Designers	298	297	-1	-0.3%	0	91	91	Bachelor's	Bachelor's + Work Exp.
27-1022	Fashion Designers	338	365	27	8.0%	27	108	135	Bachelor's	Bachelor's + Work Exp.
27-1023	Floral Designers	647	725	78	12.1%	78	211	289	Moderate OJT	Post-sec.
27-1024	Graphic Designers	2,698	2,908	210	7.8%	210	861	1,071	Assoc.	Bachelor's
27-1025	Interior Designers	739	854	115	15.6%	115	245	360	Assoc.	Bachelor's
27-1026	Merchandise Displayers and Window Trimmers	1,542	1,762	220	14.3%	220	507	727	Moderate OJT	Assoc.
27-1027	Set and Exhibit Designers	100	103	3	3.0%	3	31	34	Bachelor's	Bachelor's + Work Exp.
27-1029	Designers, All Other	233	261	28	12.0%	28	76	104	Post-sec.	Bachelor's
27-2000	Entertainers and Performers, Sports, and Related Workers	6,360	6,989	629	9.9%	629	1,485	2,114		
27-2011	Actors	225	251	26	11.6%	26	57	83	Long OJT	Post-sec.
27-2012	Producers and Directors	779	839	60	7.7%	60	252	312	Bachelor's	Bachelor's + Work Exp.
27-2021	Athletes and Sports Competitors	186	212	26	14.0%	26	38	64	Long OJT	Post-sec.
27-2022	Coaches and Scouts	2,565	2,833	268	10.4%	268	517	785	Long OJT	Bachelor's
27-2023	Umpires, Referees, and Other Sports Officials	225	256	31	13.8%	31	46	77	Long OJT	Bachelor's
27-2032	Choreographers	232	253	21	9.1%	21	111	132	Work Exp.	Assoc.

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27-2041	Music Directors and Composers	607	646	39	6.4%	39	126	165	Bachelor's	Master's
27-2042	Musicians and Singers	1,257	1,381	124	9.9%	124	266	390	Long OJT	Assoc.
27-2099	Entertainers and Performers, Sports and Related Workers, All Other	284	318	34	12.0%	34	72	106	Long OJT	Assoc.
27-3000	Media and Communication Workers	7,019	7,448	429	6.1%	459	1,728	2,187		
27-3011	Radio and Television Announcers	456	458	2	0.4%	2	129	131	Moderate OJT	Bachelor's
27-3012	Public Address System and Other Announcers	127	144	17	13.4%	17	38	55	Long OJT	Bachelor's
27-3021	Broadcast News Analysts	120	120	0	0.0%	0	33	33	Bachelor's	Bachelor's + Work Exp.
27-3022	Reporters and Correspondents	769	739	-30	-3.9%	0	207	207	Bachelor's	Bachelor's + Work Exp.
27-3031	Public Relations Specialists	2,050	2,243	193	9.4%	193	509	702	Bachelor's	Bachelor's + Work Exp.
27-3041	Editors	1,134	1,135	1	0.1%	1	297	298	Bachelor's	Bachelor's + Work Exp.
27-3042	Technical Writers	758	813	55	7.3%	55	127	182	Bachelor's	Bachelor's + Work Exp.
27-3043	Writers and Authors	523	576	53	10.1%	53	115	168	Bachelor's	Bachelor's + Work Exp.
27-3091	Interpreters and Translators	638	719	81	12.7%	81	161	242	Long OJT	Bachelor's
27-3099	Media and Communication Workers, All Other	444	501	57	12.8%	57	112	169	Bachelor's	Bachelor's + Work Exp.
27-4000	Media and Communication Equipment Workers	2,457	2,641	184	7.5%	184	665	849		
27-4011	Audio and Video Equipment Technicians	693	735	42	6.1%	42	216	258	Long OJT	Post-sec.
27-4012	Broadcast Technicians	399	400	1	0.3%	1	121	122	Assoc.	Bachelor's
27-4014	Sound Engineering Technicians	108	113	5	4.6%	5	33	38	Post-sec.	Post-sec. + Work Exp.
27-4021	Photographers	619	722	103	16.6%	103	134	237	Long OJT	Bachelor's
27-4031	Camera Operators, Television, Video, and Motion Picture	247	258	11	4.5%	11	62	73	Moderate OJT	Assoc.
27-4032	Film and Video Editors	183	188	5	2.7%	5	46	51	Assoc.	Bachelor's
27-4099	Media and Communication Equipment Workers, All Other	208	225	17	8.2%	17	53	70	Moderate OJT	Work Exp.
Health Care		121,687	150,070	28,383	23.3%	28,383	22,816	51,199		
29-0000	Healthcare Practitioner and Technical Occupations	78,971	96,698	17,727	22.4%	17,727	17,313	35,040		
29-1000	Health Diagnosing and Treating Practitioners	51,657	63,113	11,456	22.2%	11,456	10,471	21,927		
29-1011	Chiropractors	383	489	106	27.7%	106	77	183	1st Prof.	1st Prof. + Work Exp.
29-1021	Dentists, General	1,004	1,270	266	26.5%	266	316	582	1st Prof.	1st Prof. + Work Exp.
29-1029	Dentists, All Other	331	416	85	25.7%	85	104	189	1st Prof.	1st Prof. + Work Exp.
29-1031	Dietitians and Nutritionists	555	663	108	19.5%	108	204	312	Bachelor's	Bachelor's + Work Exp.
29-1041	Optometrists	354	450	96	27.1%	96	134	230	1st Prof.	1st Prof. + Work Exp.
29-1051	Pharmacists	3,180	3,649	469	14.7%	469	757	1,226	1st Prof.	1st Prof. + Work Exp.
29-1060	Physicians and Surgeons	7,456	9,278	1,822	24.4%	1,822	1,472	3,294	1st Prof.	1st Prof. + Work Exp.
29-1071	Physician Assistants	644	813	169	26.2%	169	133	302	Bachelor's	Master's
29-1081	Podiatrists	49	60	11	22.4%	11	10	21	1st Prof.	1st Prof. + Work Exp.
29-1111	Registered Nurses	30,656	37,427	6,771	22.1%	6,771	5,947	12,718	Assoc.	Bachelor's
29-1121	Audiologists	185	226	41	22.2%	41	41	82	Master's	PhD
29-1122	Occupational Therapists	937	1,137	200	21.3%	200	189	389	Master's	Master's + Work Exp.
29-1123	Physical Therapists	2,117	2,616	499	23.6%	499	286	785	Master's	PhD
29-1124	Radiation Therapists	177	216	39	22.0%	39	36	75	Assoc.	Bachelor's
29-1125	Recreational Therapists	175	242	67	38.3%	67	74	141	Bachelor's	Bachelor's + Work Exp.
29-1126	Respiratory Therapists	1,077	1,301	224	20.8%	224	217	441	Assoc.	Bachelor's
29-1127	Speech and Language Pathologists	832	958	126	15.1%	126	163	289	Master's	PhD
29-1129	Therapists, All Other	140	168	28	20.0%	28	31	59	Bachelor's	Master's
29-1131	Veterinarians	949	1,184	235	24.8%	235	188	423	1st Prof.	1st Prof. + Work Exp.
29-1199	Health Diagnosing and Treating Practitioners, All Other	456	550	94	20.6%	94	92	186	1st Prof.	1st Prof. + Work Exp.

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29-2000 Health Technologists and Technicians	25,609	31,650	6,041	23.6%	6,041	6,234	12,275		
29-2011 Medical and Clinical Laboratory Technologists	1,947	2,392	445	22.9%	445	412	857	Post-sec.	Bachelor's
29-2012 Medical and Clinical Laboratory Technicians	1,064	1,328	264	24.8%	264	227	491	Assoc.	Assoc. + Work Exp.
29-2021 Dental Hygienists	3,142	4,003	861	27.4%	861	729	1,590	Assoc.	Bachelor's
29-2031 Cardiovascular Technologists and Technicians	579	709	130	22.5%	130	93	223	Assoc.	Assoc. + Work Exp.
29-2032 Diagnostic Medical Sonographers and Ultrasound Technologists	454	561	107	23.6%	107	73	180	Assoc.	Bachelor's
29-2033 Nuclear Medicine Technologists	195	244	49	25.1%	49	32	81	Assoc.	Bachelor's
29-2034 Radiologic, CAT, and MRI Technologists and Technicians	2,261	2,793	532	23.5%	532	365	897	Assoc.	Bachelor's
29-2041 Emergency Medical Technicians and Paramedics	1,768	2,155	387	21.9%	387	400	787	Post-sec.	Post-sec. + Work Exp.
29-2051 Dietetic Technicians	150	185	35	23.3%	35	42	77	Moderate OJT	Assoc.
29-2052 Pharmacy Technicians	3,910	4,465	555	14.2%	555	1,056	1,611	Post-sec.	Assoc.
29-2053 Psychiatric Technicians	444	866	422	95.0%	422	165	587	Post-sec.	Assoc.
29-2055 Surgical Technologists	922	1,144	222	24.1%	222	260	482	Post-sec.	Assoc.
29-2056 Veterinary Technologists and Technicians	1,313	1,631	318	24.2%	318	371	689	Moderate OJT	Post-sec.
29-2061 Licensed Practical and Licensed Vocational Nurses	2,582	3,172	590	22.9%	590	900	1,490	Post-sec.	Post-sec. + Work Exp.
29-2071 Medical Records and Health Information Technicians	2,639	3,274	635	24.1%	635	603	1,238	Post-sec.	Assoc.
29-2081 Opticians, Dispensing	851	1,043	192	22.6%	192	193	385	Long OJT	Post-sec.
29-2091 Orthotists and Prosthetists	85	93	8	9.4%	8	18	26	Bachelor's	Bachelor's + Work Exp.
29-2099 Health Technologists and Technicians, All Other	1,303	1,592	289	22.2%	289	295	584	Post-sec.	Post-sec. + Work Exp.
29-9000 Other Healthcare Practitioner and Technical Occupations	1,705	1,935	230	13.5%	230	608	838		
29-9011 Occupational Health and Safety Specialists	725	794	69	9.5%	69	254	323	Bachelor's	Master's
29-9012 Occupational Health and Safety Technicians	205	219	14	6.8%	14	71	85	Bachelor's	Bachelor's + Work Exp.
29-9091 Athletic Trainers	140	161	21	15.0%	21	50	71	Bachelor's	Master's
29-9099 Healthcare Practitioner and Technical Workers, All Other	635	761	126	19.8%	126	233	359	Assoc.	Assoc. + Work Exp.
31-0000 Healthcare Support Occupations	42,716	53,372	10,656	24.9%	10,656	5,503	16,159		
31-1000 Nursing, Psychiatric, and Home Health Aides	22,108	27,722	5,614	25.4%	5,614	2,481	8,095		
31-1011 Home Health Aides	8,599	10,775	2,176	25.3%	2,176	965	3,141	Short OJT	Post-sec.
31-1012 Nursing Aides, Orderlies, and Attendants	12,842	15,950	3,108	24.2%	3,108	1,433	4,541	Short OJT	Post-sec.
31-1013 Psychiatric Aides	667	997	330	49.5%	330	83	413	Short OJT	Work Exp.
31-2000 Occupational and Physical Therapy Assistants and Aides	1,293	1,618	325	25.1%	325	210	535		
31-2011 Occupational Therapist Assistants	141	176	35	24.8%	35	23	58	Assoc.	Assoc. + Work Exp.
31-2012 Occupational Therapist Aides	21	24	3	14.3%	3	3	6	Short OJT	Post-sec.
31-2021 Physical Therapist Assistants	529	661	132	25.0%	132	86	218	Assoc.	Assoc. + Work Exp.
31-2022 Physical Therapist Aides	602	757	155	25.7%	155	98	253	Short OJT	Assoc.
31-9000 Other Healthcare Support Occupations	19,315	24,032	4,717	24.4%	4,717	2,812	7,529		
31-9011 Massage Therapists	808	965	157	19.4%	157	118	275	Post-sec.	Post-sec. + Work Exp.
31-9091 Dental Assistants	4,360	5,527	1,167	26.8%	1,167	928	2,095	Moderate OJT	Post-sec.
31-9092 Medical Assistants	7,113	8,948	1,835	25.8%	1,835	895	2,730	Moderate OJT	Post-sec.
31-9093 Medical Equipment Preparers	985	1,206	221	22.4%	221	122	343	Post-sec.	Post-sec. + Work Exp.
31-9094 Medical Transcriptionists	1,589	1,939	350	22.0%	350	197	547	Post-sec.	Assoc.
31-9096 Veterinary Assistants and Laboratory Animal Caretakers	1,323	1,643	320	24.2%	320	165	485	Short OJT	Post-sec.
31-9099 Healthcare Support Workers, All Other	3,137	3,804	667	21.3%	667	387	1,054	Short OJT	Post-sec.
Service	279,698	314,241	34,543	12.4%	34,543	89,849	124,392		
33-0000 Protective Service Occupations	29,681	32,620	2,939	9.9%	2,939	9,433	12,372		
33-1000 Supervisors, Protective Service Workers	2,949	3,280	331	11.2%	331	1,346	1,677		

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33-1011 Supervisors and Managers of Correctional Officers	397	435	38	9.6%	38	151	189	Work Exp.	Bachelor's
33-1012 Supervisors and Managers of Police and Detectives	1,207	1,348	141	11.7%	141	560	701	Work Exp.	Bachelor's + Work Exp.
33-1021 Supervisors and Managers of Fire Fighting and Prevention Workers	787	880	93	11.8%	93	422	515	Work Exp.	Bachelor's + Work Exp.
33-1099 Supervisors and Managers, Protective Service Workers, All Other	558	617	59	10.6%	59	213	272	Work Exp.	Bachelor's
33-2000 Firefighting and Prevention Workers	3,329	3,719	390	11.7%	390	1,074	1,464		
33-2011 Fire Fighters	3,093	3,459	366	11.8%	366	1,006	1,372	Post-sec.	Assoc.
33-2021 Fire Inspectors and Investigators	163	182	19	11.7%	19	47	66	Post-sec.	Post-sec. + Work Exp.
33-2022 Forest Fire Inspectors and Prevention Specialists	73	78	5	6.8%	5	21	26	Work Exp.	Assoc.
33-3000 Law Enforcement Workers	10,251	11,327	1,076	10.5%	1,076	2,580	3,656		
33-3011 Bailiffs	46	51	5	10.9%	5	11	16	Moderate OJT	Work Exp.
33-3012 Correctional Officers	4,214	4,628	414	9.8%	414	980	1,394	Moderate OJT	Post-sec.
33-3021 Detectives and Criminal Investigators	656	705	49	7.5%	49	139	188	Assoc.	Bachelor's
33-3031 Fish and Game Wardens	5	7	2	40.0%	2	1	3	Assoc.	Bachelor's
33-3041 Parking Enforcement Workers	115	129	14	12.2%	14	29	43	Short OJT	Work Exp.
33-3051 Police and Sheriff's Patrol Officers	5,141	5,726	585	11.4%	585	1,401	1,986	Long OJT	Assoc.
33-3052 Transit and Railroad Police	74	81	7	9.5%	7	19	26	Long OJT	Post-sec.
33-9000 Other Protective Service Workers	13,152	14,294	1,142	8.7%	1,142	4,433	5,575		
33-9011 Animal Control Workers	104	116	12	11.5%	12	30	42	Moderate OJT	Work Exp.
33-9021 Private Detectives and Investigators	195	218	23	11.8%	23	42	65	Work Exp.	Assoc.
33-9031 Gaming Surveillance Officers and Gaming Investigators	310	344	34	11.0%	34	67	101	Moderate OJT	Work Exp.
33-9032 Security Guards	7,826	8,478	652	8.3%	652	1,677	2,329	Short OJT	Post-sec.
33-9091 Crossing Guards	1,706	1,823	117	6.9%	117	479	596	Short OJT	Work Exp.
33-9092 Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	1,646	1,849	203	12.3%	203	1,181	1,384	Short OJT	Work Exp.
33-9099 Protective Service Workers, All Other	1,365	1,466	101	7.4%	101	957	1,058	Short OJT	Work Exp.
35-0000 Food Preparation and Serving Related Occupations	155,536	174,943	19,407	12.5%	19,407	59,733	79,140		
35-1000 Supervisors, Food Preparation and Food Serving Workers	10,852	12,223	1,371	12.6%	1,371	1,101	2,472		
35-1011 Chefs and Head Cooks	1,156	1,288	132	11.4%	132	119	251	Post-sec.	Post-sec. + Work Exp.
35-1012 Supervisors and Managers of Food Preparation and Serving Workers	9,696	10,935	1,239	12.8%	1,239	982	2,221	Work Exp.	Post-sec.
35-2000 Cooks and Food Preparation Workers	39,796	44,810	5,014	12.6%	5,014	12,029	17,043		
35-2011 Cooks, Fast Food	6,992	7,937	945	13.5%	945	1,910	2,855	Short OJT	Work Exp.
35-2012 Cooks, Institution and Cafeteria	5,400	6,223	823	15.2%	823	1,487	2,310	Moderate OJT	Work Exp.
35-2014 Cooks, Restaurant	14,501	16,139	1,638	11.3%	1,638	3,920	5,558	Moderate OJT	Work Exp.
35-2015 Cooks, Short Order	1,643	1,839	196	11.9%	196	445	641	Short OJT	Work Exp.
35-2019 Cooks, All Other	156	173	17	10.9%	17	42	59	Moderate OJT	Work Exp.
35-2021 Food Preparation Workers	11,104	12,499	1,395	12.6%	1,395	4,225	5,620	Short OJT	Work Exp.
35-3000 Food and Beverage Serving Workers	85,969	96,805	10,836	12.6%	10,836	36,846	47,682		
35-3011 Bartenders	7,777	8,571	794	10.2%	794	2,912	3,706	Short OJT	Post-sec.
35-3021 Combined Food Preparation and Serving Workers, Including Fast Food	35,426	40,268	4,842	13.7%	4,842	8,026	12,868	Short OJT	Work Exp.
35-3022 Counter Attendants in Cafeterias, Food Concessions, and Coffee Shops	10,704	12,071	1,367	12.8%	1,367	8,363	9,730	Short OJT	Work Exp.
35-3031 Waiters and Waitresses	29,160	32,448	3,288	11.3%	3,288	17,002	20,290	Short OJT	Work Exp.

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35-3041	Food Servers, Nonrestaurant	2,902	3,447	545	18.8%	545	543	1,088	Short OJT	Work Exp.
35-9000	Other Food Preparation and Serving Related Workers	18,919	21,105	2,186	11.6%	2,186	9,757	11,943		
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	4,645	5,208	563	12.1%	563	2,136	2,699	Short OJT	Work Exp.
35-9021	Dishwashers	7,933	8,904	971	12.2%	971	3,465	4,436	Short OJT	Work Exp.
35-9031	Hosts and Hostesses in Restaurants, Lounges, and Coffee Shops	3,951	4,389	438	11.1%	438	2,902	3,340	Short OJT	Work Exp.
35-9099	Food Preparation and Serving Workers, All Other	2,390	2,604	214	9.0%	214	1,254	1,468	Short OJT	Work Exp.
37-0000	Building and Grounds Cleaning and Maintenance Workers	55,822	62,592	6,770	12.1%	6,770	9,829	16,599		
37-1000	Supervisors, Building and Grounds Cleaning and Maintenance Workers	3,267	3,718	451	13.8%	451	370	821		
37-1011	Supervisors and Managers of Housekeeping and Janitorial Workers	1,908	2,170	262	13.7%	262	212	474	Work Exp.	Post-sec.
37-1012	Supervisors and Managers of Landscaping and Groundskeeping Workers	1,359	1,548	189	13.9%	189	158	347	Work Exp.	Post-sec.
37-2000	Building Cleaning and Pest Control Workers	37,382	41,979	4,597	12.3%	4,597	7,531	12,128		
37-2011	Janitors and Cleaners	23,801	26,354	2,553	10.7%	2,553	4,739	7,292	Short OJT	Work Exp.
37-2012	Maids and Housekeeping Cleaners	12,278	14,153	1,875	15.3%	1,875	2,372	4,247	Short OJT	Work Exp.
37-2019	Building Cleaning Workers, All Other	392	425	33	8.4%	33	77	110	Short OJT	Work Exp.
37-2021	Pest Control Workers	911	1,047	136	14.9%	136	343	479	Moderate OJT	Work Exp.
37-3000	Grounds Maintenance Workers	15,173	16,895	1,722	11.3%	1,722	1,928	3,650		
37-3011	Landscaping and Groundskeeping Workers	11,031	12,427	1,396	12.7%	1,396	1,411	2,807	Short OJT	Work Exp.
37-3012	Pesticide Handlers, Sprayers, and Applicators; Vegetation	1,746	1,881	135	7.7%	135	218	353	Moderate OJT	Work Exp.
37-3013	Tree Trimmers and Pruners	1,957	2,104	147	7.5%	147	244	391	Short OJT	Work Exp.
37-3019	Grounds Maintenance Workers, All Other	439	483	44	10.0%	44	55	99	Short OJT	Work Exp.
39-0000	Personal Care and Service Occupations	38,659	44,086	5,427	14.0%	5,427	10,854	16,281		
39-1000	Supervisors, Personal Care and Service Workers	2,298	2,632	334	14.5%	334	656	990		
39-1011	Gaming Supervisors	196	215	19	9.7%	19	47	66	Long OJT	Work Exp.
39-1012	Slot Key Persons	144	160	16	11.1%	16	35	51	Short OJT	Work Exp.
39-1021	Supervisors and Managers of Personal Service Workers	1,958	2,257	299	15.3%	299	574	873	Work Exp.	Post-sec.
39-2000	Animal Care and Service Workers	2,064	2,318	254	12.3%	254	475	729		
39-2011	Animal Trainers	133	143	10	7.5%	10	28	38	Moderate OJT	Work Exp.
39-2021	Nonfarm Animal Caretakers	1,931	2,175	244	12.6%	244	447	691	Short OJT	Post-sec.
39-3000	Entertainment Attendants and Related Workers	7,061	7,814	753	10.7%	753	3,938	4,691		
39-3011	Gaming Dealers	624	688	64	10.3%	64	278	342	Short OJT	Work Exp.
39-3012	Gaming and Sports Book Writers and Runners	149	166	17	11.4%	17	67	84	Short OJT	Work Exp.
39-3019	Gaming Service Workers, All Other	90	99	9	10.0%	9	40	49	Short OJT	Work Exp.
39-3021	Motion Picture Projectionists	155	161	6	3.9%	6	67	73	Short OJT	Work Exp.
39-3031	Ushers, Lobby Attendants, and Ticket Takers	1,509	1,644	135	8.9%	135	1,001	1,136	Short OJT	Work Exp.
39-3091	Amusement and Recreation Attendants	2,962	3,344	382	12.9%	382	1,634	2,016	Short OJT	Work Exp.
39-3092	Costume Attendants	19	21	2	10.5%	2	10	12	Short OJT	Work Exp.
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	385	432	47	12.2%	47	212	259	Short OJT	Work Exp.
39-3099	Entertainment Attendants and Related Workers, All Other	1,168	1,259	91	7.8%	91	629	720	Short OJT	Work Exp.
39-4000	Funeral Service Workers	191	207	16	8.4%	16	95	111		
39-4011	Embalmers	54	59	5	9.3%	5	27	32	Assoc.	Assoc. + Work Exp.
39-4021	Funeral Attendants	137	148	11	8.0%	11	68	79	Short OJT	Work Exp.

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39-5000	Personal Appearance Workers	4,209	4,722	513	12.2%	513	654	1,167	
39-5011	Barbers	210	235	25	11.9%	25	32	57	Post-sec.
39-5012	Hairdressers, Hairstylists, and Cosmetologists	3,490	3,913	423	12.1%	423	543	966	Post-sec.
39-5092	Manicurists and Pedicurists	236	264	28	11.9%	28	36	64	Post-sec.
39-5094	Skin Care Specialists	273	310	37	13.6%	37	43	80	Post-sec.
39-6000	Transportation, Tourism, and Lodging Attendants	2,119	2,296	177	8.4%	177	644	821	
39-6011	Baggage Porters and Bellhops	414	453	39	9.4%	39	112	151	Short OJT
39-6012	Concierges	161	178	17	10.6%	17	44	61	Short OJT
39-6021	Tour Guides and Escorts	571	639	68	11.9%	68	254	322	Moderate OJT
39-6022	Travel Guides	51	55	4	7.8%	4	22	26	Moderate OJT
39-6031	Flight Attendants	744	782	38	5.1%	38	171	209	Long OJT
39-6032	Transportation Attendants, Except Flight Attendants and Baggage Porters	178	189	11	6.2%	11	41	52	Short OJT
39-9000	Other Personal Care and Service Workers	20,717	24,097	3,380	16.3%	3,380	4,392	7,772	
39-9011	Child Care Workers	4,732	5,319	587	12.4%	587	1,471	2,058	Short OJT
39-9021	Personal and Home Care Aides	6,285	7,732	1,447	23.0%	1,447	875	2,322	Short OJT
39-9031	Fitness Trainers and Aerobics Instructors	3,375	3,800	425	12.6%	425	646	1,071	Work Exp.
39-9032	Recreation Workers	4,230	4,924	694	16.4%	694	824	1,518	Short OJT
39-9041	Residential Advisors	610	685	75	12.3%	75	230	305	Moderate OJT
39-9099	Personal Care and Service Workers, All Other	1,485	1,637	152	10.2%	152	346	498	Short OJT
	Sales and Related	188,417	204,271	15,854	8.4%	15,856	56,101	71,957	
41-0000	Sales and Related Occupations	188,417	204,271	15,854	8.4%	15,856	56,101	71,957	
41-1000	Supervisors, Sales and Related	20,857	22,743	1,886	9.0%	1,886	4,645	6,531	
41-1011	Supervisors and Managers of Retail Sales Workers	16,383	17,969	1,586	9.7%	1,586	3,686	5,272	Work Exp.
41-1012	Supervisors and Managers of Non-Retail Sales Workers	4,474	4,774	300	6.7%	300	959	1,259	Work Exp.
41-2000	Retail Sales Workers	104,881	114,928	10,047	9.6%	10,047	37,097	47,144	
41-2011	Cashiers	34,401	38,194	3,793	11.0%	3,793	16,302	20,095	Short OJT
41-2012	Gaming Change Persons and Booth Cashiers	175	192	17	9.7%	17	82	99	Short OJT
41-2021	Counter and Rental Clerks	6,090	6,319	229	3.8%	229	1,658	1,887	Short OJT
41-2022	Parts Salespersons	3,979	4,223	244	6.1%	244	1,449	1,693	Moderate OJT
41-2031	Retail Salespersons	60,236	66,000	5,764	9.6%	5,764	17,606	23,370	Short OJT
41-3000	Sales Representatives, Service	16,337	17,333	996	6.1%	998	4,040	5,038	
41-3011	Advertising Sales Agents	1,706	1,704	-2	-0.1%	0	338	338	Moderate OJT
41-3021	Insurance Sales Agents	4,199	4,463	264	6.3%	264	1,005	1,269	Post-sec.
41-3031	Securities, Commodities, and Financial Services Sales Agents	3,272	3,472	200	6.1%	200	1,034	1,234	Bachelor's
41-3041	Travel Agents	1,031	1,043	12	1.2%	12	78	90	Moderate OJT
41-3099	Sales Representatives, Services, All Other	6,129	6,651	522	8.5%	522	1,585	2,107	Moderate OJT
41-4000	Sales Representatives, Wholesale and Manufacturing	22,699	24,714	2,015	8.9%	2,015	5,491	7,506	
41-4011	Wholesale and Manufacturing Sales Representatives; Technical and Scientific	5,480	6,110	630	11.5%	630	1,342	1,972	Work Exp.
41-4012	Wholesale and Manufacturing Sales Representatives Non-technical and Scientific	17,219	18,604	1,385	8.0%	1,385	4,149	5,534	Work Exp.
41-9000	Other Sales and Related Workers	23,643	24,553	910	3.8%	910	4,828	5,738	
41-9011	Demonstrators and Product Promoters	1,490	1,767	277	18.6%	277	469	746	Short OJT
41-9012	Models	48	52	4	8.3%	4	14	18	Moderate OJT

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41-9021	Real Estate Brokers	4,617	4,620	3	0.1%	3	756	759	Post-sec.	Post-sec. + Work Exp.
41-9022	Real Estate Sales Agents	10,492	10,509	17	0.2%	17	1,719	1,736	Post-sec.	Post-sec. + Work Exp.
41-9031	Sales Engineers	1,194	1,259	65	5.4%	65	442	507	Bachelor's	Master's
41-9041	Telemarketers	2,640	2,892	252	9.5%	252	696	948	Short OJT	Work Exp.
41-9091	Door-To-Door Sales Workers, News and Street Vendors, and Related Workers	148	161	13	8.8%	13	28	41	Short OJT	Work Exp.
41-9099	Sales and Related Workers, All Other	3,014	3,293	279	9.3%	279	704	983	Short OJT	Work Exp.
	Office and Administrative Support	283,394	310,685	27,291	9.6%	27,621	61,575	89,196		
43-0000	Office and Administrative Support Occupations	283,394	310,685	27,291	9.6%	27,621	61,575	89,196		
43-1000	Supervisors, Office and Administrative Support Workers	15,526	17,102	1,576	10.2%	1,576	3,680	5,256		
43-1011	Supervisors and Managers of Office and Administrative Support Workers	15,526	17,102	1,576	10.2%	1,576	3,680	5,256	Work Exp.	Assoc.
43-2000	Communication Equipment Workers	1,675	1,878	203	12.1%	203	367	570		
43-2011	Switchboard Operators, Including Answering Service	1,667	1,869	202	12.1%	202	365	567	Short OJT	Work Exp.
43-2099	Communications Equipment Operators, All Other	8	9	1	12.5%	1	2	3	Short OJT	Work Exp.
43-3000	Financial Clerks	47,936	52,593	4,657	9.7%	4,657	9,090	13,747		
43-3011	Bill and Account Collectors	4,284	4,787	503	11.7%	503	854	1,357	Short OJT	Work Exp.
43-3021	Billing and Posting Clerks	6,001	6,917	916	15.3%	916	1,060	1,976	Short OJT	Work Exp.
43-3031	Bookkeeping, Accounting, and Auditing Clerks	27,505	30,048	2,543	9.2%	2,543	3,458	6,001	Post-sec.	Assoc.
43-3041	Gaming Cage Workers	339	373	34	10.0%	34	67	101	Short OJT	Work Exp.
43-3051	Payroll and Timekeeping Clerks	2,427	2,639	212	8.7%	212	600	812	Moderate OJT	Post-sec.
43-3061	Purchasing and Procurement Clerks	705	748	43	6.1%	43	222	265	Moderate OJT	Post-sec.
43-3071	Tellers	6,675	7,081	406	6.1%	406	2,829	3,235	Short OJT	Work Exp.
43-4000	Information and Record Clerks	70,214	77,539	7,325	10.4%	7,325	21,432	28,757		
43-4011	Brokerage Clerks	608	642	34	5.6%	34	177	211	Moderate OJT	Work Exp.
43-4021	Correspondence Clerks	594	631	37	6.2%	37	174	211	Short OJT	Post-sec.
43-4031	Court, Municipal, and License Clerks	1,602	1,740	138	8.6%	138	473	611	Short OJT	Post-sec.
43-4041	Credit Authorizers, Checkers, and Clerks	353	380	27	7.6%	27	104	131	Work Exp.	Post-sec.
43-4051	Customer Service Representatives	23,937	25,960	2,023	8.5%	2,023	7,852	9,875	Moderate OJT	Work Exp.
43-4061	Eligibility Interviewers, Government Programs	1,194	1,278	84	7.0%	84	287	371	Moderate OJT	Post-sec.
43-4071	File Clerks	2,441	2,786	345	14.1%	345	636	981	Short OJT	Work Exp.
43-4081	Hotel, Motel, and Resort Desk Clerks	3,861	4,332	471	12.2%	471	1,388	1,859	Short OJT	Work Exp.
43-4111	Interviewers, Except Eligibility and Loan	3,987	4,868	881	22.1%	881	1,056	1,937	Short OJT	Work Exp.
43-4121	Library Assistants, Clerical	1,883	2,063	180	9.6%	180	819	999	Short OJT	Post-sec.
43-4131	Loan Interviewers and Clerks	3,305	3,529	224	6.8%	224	842	1,066	Short OJT	Work Exp.
43-4141	New Accounts Clerks	1,023	1,085	62	6.1%	62	299	361	Work Exp.	Bachelor's
43-4151	Order Clerks	3,471	3,690	219	6.3%	219	1,014	1,233	Short OJT	Work Exp.
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	1,545	1,684	139	9.0%	139	457	596	Short OJT	Post-sec.
43-4171	Receptionists and Information Clerks	14,346	16,485	2,139	14.9%	2,139	4,159	6,298	Short OJT	Work Exp.
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	1,159	1,214	55	4.7%	55	267	322	Short OJT	Post-sec.
43-4199	Information and Record Clerks, All Other	4,905	5,172	267	5.4%	267	1,428	1,695	Short OJT	Work Exp.
43-5000	Material Recording, Scheduling, Dispatching, and Distributing Workers	42,980	45,480	2,500	5.8%	2,825	10,536	13,361		
43-5011	Cargo and Freight Agents	863	929	66	7.6%	66	206	272	Moderate OJT	Work Exp.

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		2008	2018	Change	Percent Change	Due to Growth*	Due to Replacement	Total		
43-5021	Couriers and Messengers	1,348	1,518	170	12.6%	170	329	499	Short OJT	Work Exp.
43-5031	Police, Fire, and Ambulance Dispatchers	1,034	1,166	132	12.8%	132	226	358	Moderate OJT	Work Exp.
43-5032	Dispatchers, Except Police, Fire, and Ambulance	2,807	3,010	203	7.2%	203	599	802	Moderate OJT	Work Exp.
43-5041	Meter Readers, Utilities	533	576	43	8.1%	43	152	195	Short OJT	Work Exp.
43-5051	Postal Service Clerks	999	950	-49	-4.9%	0	207	207	Short OJT	Post-sec.
43-5052	Postal Service Mail Carriers	3,757	3,571	-186	-5.0%	0	1,144	1,144	Short OJT	Work Exp.
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	1,961	1,871	-90	-4.6%	0	176	176	Short OJT	Work Exp.
43-5061	Production, Planning, and Expediting Clerks	3,775	3,981	206	5.5%	206	955	1,161	Work Exp.	Bachelor's
43-5071	Shipping, Receiving, and Traffic Clerks	9,399	9,855	456	4.9%	456	2,388	2,844	Short OJT	Work Exp.
43-5081	Stock Clerks and Order Fillers	15,117	16,486	1,369	9.1%	1,369	3,639	5,008	Short OJT	Work Exp.
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	1,387	1,567	180	13.0%	180	515	695	Short OJT	Work Exp.
43-6000	Secretaries and Administrative Assistants	46,130	52,047	5,917	12.8%	5,917	6,613	12,530		
43-6011	Executive Secretaries and Administrative Assistants	14,052	15,464	1,412	10.0%	1,412	1,988	3,400	Moderate OJT	Assoc.
43-6012	Legal Secretaries	3,454	3,952	498	14.4%	498	499	997	Post-sec.	Assoc.
43-6013	Medical Secretaries	8,528	10,680	2,152	25.2%	2,152	1,294	3,446	Moderate OJT	Post-sec.
43-6014	Secretaries, Except Legal, Medical, and Executive	20,096	21,951	1,855	9.2%	1,855	2,832	4,687	Moderate OJT	Assoc.
43-9000	Other Office and Administrative Support Workers	58,933	64,046	5,113	8.7%	5,118	9,857	14,975		
43-9011	Computer Operators	789	862	73	9.3%	73	93	166	Moderate OJT	Post-sec.
43-9021	Data Entry Keyers	2,283	2,542	259	11.3%	259	502	761	Moderate OJT	Work Exp.
43-9022	Word Processors and Typists	623	676	53	8.5%	53	50	103	Moderate OJT	Post-sec.
43-9031	Desktop Publishers	454	449	-5	-1.1%	0	75	75	Post-sec.	Post-sec. + Work Exp.
43-9041	Insurance Claims and Policy Processing Clerks	3,474	3,708	234	6.7%	234	469	703	Moderate OJT	Post-sec.
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	1,294	1,435	141	10.9%	141	247	388	Short OJT	Post-sec.
43-9061	Office Clerks, General	37,446	40,728	3,282	8.8%	3,282	5,326	8,608	Short OJT	Post-sec.
43-9071	Office Machine Operators, Except Computer	1,119	1,207	88	7.9%	88	385	473	Short OJT	Work Exp.
43-9081	Proofreaders and Copy Markers	122	134	12	9.8%	12	21	33	Short OJT	Work Exp.
43-9111	Statistical Assistants	361	397	36	10.0%	36	63	99	Moderate OJT	Post-sec.
43-9199	Office and Administrative Support Workers, All Other	10,968	11,908	940	8.6%	940	2,626	3,566	Short OJT	Work Exp.
	Farming, Fishing, and Forestry	36,086	37,985	1,899	5.3%	2,102	9,747	11,849		
45-0000	Farming, Fishing, and Forestry Occupations	36,086	37,985	1,899	5.3%	2,102	9,747	11,849		
45-1000	Supervisors, Farming, Fishing, and Forestry Workers	2,301	2,400	99	4.3%	99	606	705		
45-1011	Supervisors and Managers of Farming, Fishing, and Forestry Workers	2,202	2,292	90	4.1%	90	579	669	Work Exp.	Work Exp.
45-1012	Farm Labor Contractors	99	108	9	9.1%	9	27	36	Work Exp.	Work Exp.
45-2000	Agricultural Workers	28,490	30,408	1,918	6.7%	1,918	7,745	9,663		
45-2011	Agricultural Inspectors	75	78	3	4.0%	3	16	19	Moderate OJT	Work Exp.
45-2021	Animal Breeders	69	77	8	11.6%	8	20	28	Moderate OJT	Work Exp.
45-2041	Graders and Sorters, Agricultural Products	2,853	3,070	217	7.6%	217	607	824	Short OJT	Work Exp.
45-2091	Agricultural Equipment Operators	3,367	3,569	202	6.0%	202	935	1,137	Short OJT	Work Exp.
45-2092	Farmworkers and Laborers for Crops, Nurseries, and Greenhouses	18,715	19,941	1,226	6.6%	1,226	5,212	6,438	Short OJT	Work Exp.
45-2093	Farmworkers, Farm and Ranch Animals	2,521	2,740	219	8.7%	219	709	928	Short OJT	Work Exp.
45-2099	Agricultural Workers, All Other	890	933	43	4.8%	43	246	289	Short OJT	Work Exp.

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	2008	2018	Change	Percent Change	Due to Growth*	Due to Replacement	Total		
45-3000 Fishing and Hunting Workers	803	870	67	8.3%	67	216	283		
45-3011 Fishers and Related Fishing Workers	803	870	67	8.3%	67	216	283	Short OJT	Work Exp.
45-4000 Forest, Conservation, and Logging Workers	4,492	4,307	-185	-4.1%	18	1,180	1,198		
45-4011 Forest and Conservation Workers	140	147	7	5.0%	7	37	44	Moderate OJT	Work Exp.
45-4021 Fallers and Buckers	564	531	-33	-5.9%	0	147	147	Moderate OJT	Work Exp.
45-4022 Logging Equipment Operators	1,948	1,856	-92	-4.7%	0	511	511	Moderate OJT	Work Exp.
45-4023 Log Graders and Scalers	372	383	11	3.0%	11	101	112	Moderate OJT	Work Exp.
45-4029 Logging Workers, All Other	1,468	1,390	-78	-5.3%	0	384	384	Moderate OJT	Work Exp.
Construction and Extraction	78,629	80,015	1,386	1.8%	1,457	14,089	15,546		
47-0000 Construction and Extraction Occupations	78,629	80,015	1,386	1.8%	1,457	14,089	15,546		
47-1000 Supervisors, Construction and Extraction Workers	6,182	6,307	125	2.0%	125	1,207	1,332		
47-1011 Supervisors and Managers of Construction Trades and Extraction Workers	6,182	6,307	125	2.0%	125	1,207	1,332	Work Exp.	Post-sec.
47-2000 Construction Trades Workers	63,088	63,911	823	1.3%	852	10,623	11,475		
47-2011 Boilermakers	247	262	15	6.1%	15	54	69	Long OJT	Post-sec.
47-2021 Brickmasons and Blockmasons	813	814	1	0.1%	1	206	207	Long OJT	Post-sec.
47-2022 Stonemasons	152	154	2	1.3%	2	39	41	Long OJT	Post-sec.
47-2031 Carpenters	13,637	13,864	227	1.7%	227	1,712	1,939	Long OJT	Post-sec.
47-2041 Carpet Installers	736	764	28	3.8%	28	196	224	Moderate OJT	Work Exp.
47-2042 Floor Layers, Except Carpet, Wood, and Hard Tiles	256	264	8	3.1%	8	68	76	Moderate OJT	Work Exp.
47-2043 Floor Sanders and Finishers	142	145	3	2.1%	3	37	40	Moderate OJT	Work Exp.
47-2044 Tile and Marble Setters	638	648	10	1.6%	10	168	178	Long OJT	Work Exp.
47-2051 Cement Masons and Concrete Finishers	2,615	2,644	29	1.1%	29	661	690	Long OJT	Work Exp.
47-2053 Terrazzo Workers and Finishers	24	25	1	4.2%	1	6	7	Long OJT	Work Exp.
47-2061 Construction Laborers	10,215	10,461	246	2.4%	246	691	937	Short OJT	Work Exp.
47-2071 Paving, Surfacing, and Tamping Equipment Operators	762	769	7	0.9%	7	126	133	Moderate OJT	Work Exp.
47-2072 Pile-Driver Operators	102	101	-1	-1.0%	0	17	17	Moderate OJT	Post-sec.
47-2073 Operating Engineers and Other Construction Equipment Operators	3,898	3,998	100	2.6%	100	678	778	Moderate OJT	Work Exp.
47-2081 Drywall and Ceiling Tile Installers	1,913	1,913	0	0.0%	0	210	210	Long OJT	Work Exp.
47-2082 Tapers	804	805	1	0.1%	1	88	89	Moderate OJT	Work Exp.
47-2111 Electricians	8,211	8,211	0	0.0%	0	1,985	1,985	Post-sec.	Post-sec. + Work Exp.
47-2121 Glaziers	892	923	31	3.5%	31	330	361	Long OJT	Post-sec.
47-2131 Insulation Workers, Floor, Ceiling, and Wall	615	619	4	0.7%	4	203	207	Long OJT	Work Exp.
47-2141 Painters, Construction and Maintenance	4,514	4,584	70	1.6%	70	777	847	Long OJT	Work Exp.
47-2142 Paperhangers	51	56	5	9.8%	5	1	6	Moderate OJT	Work Exp.
47-2151 Pipelayers	538	558	20	3.7%	20	110	130	Moderate OJT	Work Exp.
47-2152 Plumbers, Pipefitters, and Steamfitter	4,514	4,543	29	0.6%	29	913	942	Post-sec.	Post-sec. + Work Exp.
47-2161 Plasterers and Stucco Masons	226	228	2	0.9%	2	37	39	Long OJT	Work Exp.
47-2171 Reinforcing Iron and Rebar Workers	384	386	2	0.5%	2	63	65	Long OJT	Work Exp.
47-2181 Roofers	2,411	2,422	11	0.5%	11	397	408	Moderate OJT	Work Exp.
47-2211 Sheet Metal Workers	3,155	3,133	-22	-0.7%	0	748	748	Post-sec.	Post-sec. + Work Exp.
47-2221 Structural Iron and Steel Workers	623	617	-6	-1.0%	0	102	102	Work Exp.	Post-sec.
47-3000 Helpers, Construction Trades	2,364	2,393	29	1.2%	29	494	523		
47-3011 Brickmason's, Blockmason's, Stonemason's, and Tile and Marble Setter's Helpers	585	587	2	0.3%	2	122	124	Short OJT	Work Exp.

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	2008	2018	Change	Percent Change	Due to Growth*	Due to Replacement	Total			
47-3012	Carpenter's Helpers	488	500	12	2.5%	12	103	115	Short OJT	Work Exp.
47-3013	Electrician's Helpers	296	298	2	0.7%	2	62	64	Short OJT	Work Exp.
47-3014	Painter's, Paperhanger's, Plasterer's, and Stucco Mason's Helpers	234	238	4	1.7%	4	49	53	Short OJT	Work Exp.
47-3015	Pipelayer's, Plumber's, Pipefitter's, and Steamfitter's Helpers	188	191	3	1.6%	3	39	42	Short OJT	Work Exp.
47-3016	Roofer's Helpers	223	223	0	0.0%	0	46	46	Short OJT	Work Exp.
47-3019	Construction Trades' Helpers, All Other	350	356	6	1.7%	6	73	79	Short OJT	Work Exp.
47-4000	Other Construction and Related Workers	6,339	6,790	451	7.1%	451	1,656	2,107		
47-4011	Construction and Building Inspectors	1,370	1,543	173	12.6%	173	299	472	Work Exp.	Assoc.
47-4021	Elevator Installers and Repairers	250	251	1	0.4%	1	69	70	Post-sec.	Post-sec. + Work Exp.
47-4031	Fence Erectors	563	581	18	3.2%	18	63	81	Moderate OJT	Work Exp.
47-4041	Hazardous Materials Removal Workers	538	546	8	1.5%	8	147	155	Moderate OJT	Work Exp.
47-4051	Highway Maintenance Workers	2,189	2,370	181	8.3%	181	618	799	Moderate OJT	Work Exp.
47-4061	Rail-Track Laying and Maintenance Equipment Operators	147	150	3	2.0%	3	40	43	Moderate OJT	Work Exp.
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	310	334	24	7.7%	24	87	111	Moderate OJT	Work Exp.
47-4099	Construction and Related Workers, All Other	972	1,015	43	4.4%	43	333	376	Moderate OJT	Work Exp.
47-5000	Extraction Workers	656	614	-42	-6.4%	0	109	109		
47-5021	Earth Drillers, Water and Construction	341	336	-5	-1.5%	0	58	58	Moderate OJT	Work Exp.
47-5031	Blasters, Explosives Workers, and Ordnance Handling Experts	140	109	-31	-22.1%	0	21	21	Moderate OJT	Work Exp.
47-5081	Extraction Worker's Helpers	121	119	-2	-1.7%	0	21	21	Short OJT	Work Exp.
47-5099	Extraction Workers, All Other	54	50	-4	-7.4%	0	9	9	Moderate OJT	Work Exp.
	Installation, Maintenance, and Repair	66,780	70,380	3,600	5.4%	3,711	13,600	17,311		
49-0000	Installation, Maintenance, and Repair Occupations	66,780	70,380	3,600	5.4%	3,711	13,600	17,311		
49-1000	Supervisors, Installation, Maintenance, and Repair Workers	4,947	5,215	268	5.4%	268	1,331	1,599		
49-1011	Supervisors and Managers of Mechanics, Installers, and Repairers	4,947	5,215	268	5.4%	268	1,331	1,599	Work Exp.	Post-sec.
49-2000	Electrical and Electronic Equipment Mechanics, Installers, and Repairers	7,612	7,972	360	4.7%	360	1,400	1,760		
49-2011	Computer, Automated Teller, and Office Machine Repairers	1,502	1,673	171	11.4%	171	273	444	Work Exp.	Post-sec.
49-2021	Radio Mechanics	220	245	25	11.4%	25	41	66	Post-sec.	Post-sec. + Work Exp.
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	2,694	2,705	11	0.4%	11	473	484	Post-sec.	Post-sec. + Work Exp.
49-2091	Avionics Technicians	121	127	6	5.0%	6	21	27	Post-sec.	Assoc.
49-2092	Electric Motor, Power Tool, and Related Repairers	277	302	25	9.0%	25	100	125	Long OJT	Post-sec.
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	177	179	2	1.1%	2	31	33	Post-sec.	Assoc.
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	965	968	3	0.3%	3	166	169	Post-sec.	Assoc.
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	269	281	12	4.5%	12	47	59	Post-sec.	Post-sec. + Work Exp.
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	414	456	42	10.1%	42	75	117	Post-sec.	Post-sec. + Work Exp.

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	2008	2018	Change	Percent Change	Due to Growth*	Due to Replacement	Total		
49-2097 Electronic Home Entertainment Equipment Installers and Repairers	335	362	27	8.1%	27	60	87	Moderate OJT	Post-sec.
49-2098 Security and Fire Alarm Systems Installers	638	674	36	5.6%	36	113	149	Post-sec.	Post-sec. + Work Exp.
49-3000 Vehicle and Mobile Equipment Mechanics, Installers, and Repairers	20,115	21,554	1,439	7.2%	1,439	4,326	5,765		
49-3011 Aircraft Mechanics and Service Technicians	1,097	1,133	36	3.3%	36	216	252	Post-sec.	Assoc.
49-3021 Automotive Body and Related Repairers	1,656	1,833	177	10.7%	177	451	628	Long OJT	Post-sec.
49-3022 Automotive Glass Installers and Repairers	363	398	35	9.6%	35	79	114	Moderate OJT	Post-sec.
49-3023 Automotive Service Technicians and Mechanics	6,067	6,594	527	8.7%	527	1,208	1,735	Post-sec.	Assoc.
49-3031 Bus and Truck Mechanics and Diesel Engine Specialists	4,247	4,591	344	8.1%	344	1,014	1,358	Long OJT	Post-sec.
49-3041 Farm Equipment Mechanics	1,284	1,361	77	6.0%	77	252	329	Long OJT	Post-sec.
49-3042 Mobile Heavy Equipment Mechanics, Except Engines	2,020	2,074	54	2.7%	54	390	444	Long OJT	Post-sec.
49-3043 Rail Car Repairers	315	327	12	3.8%	12	61	73	Long OJT	Work Exp.
49-3051 Motorboat Mechanics	211	231	20	9.5%	20	46	66	Long OJT	Work Exp.
49-3052 Motorcycle Mechanics	258	273	15	5.8%	15	55	70	Long OJT	Post-sec.
49-3053 Outdoor Power Equipment and Other Small Engine Mechanics	334	360	26	7.8%	26	72	98	Moderate OJT	Post-sec.
49-3091 Bicycle Repairers	235	240	5	2.1%	5	49	54	Moderate OJT	Work Exp.
49-3092 Recreational Vehicle Service Technicians	517	532	15	2.9%	15	109	124	Post-sec.	Assoc.
49-3093 Tire Repairers and Changers	1,511	1,607	96	6.4%	96	324	420	Short OJT	Work Exp.
49-9000 Other Installation, Maintenance, and Repair Occupations	34,106	35,639	1,533	4.5%	1,644	6,543	8,187		
49-9011 Mechanical Door Repairers	244	249	5	2.0%	5	38	43	Moderate OJT	Work Exp.
49-9012 Control and Valve Installers and Repairers, Except Mechanical Door	466	485	19	4.1%	19	73	92	Moderate OJT	Work Exp.
49-9021 Heating, Air Conditioning, and Refrigeration Mechanics and Installers	2,771	2,867	96	3.5%	96	454	550	Long OJT	Post-sec.
49-9031 Home Appliance Repairers	690	765	75	10.9%	75	112	187	Long OJT	Post-sec.
49-9041 Industrial Machinery Mechanics	4,251	4,210	-41	-1.0%	0	609	609	Long OJT	Post-sec.
49-9042 Maintenance and Repair Workers, General	12,976	13,888	912	7.0%	912	2,068	2,980	Long OJT	Assoc.
49-9043 Maintenance Workers, Machinery	839	850	11	1.3%	11	130	141	Long OJT	Assoc.
49-9044 Millwrights	1,147	1,110	-37	-3.2%	0	228	228	Post-sec.	Post-sec. + Work Exp.
49-9045 Refractory Materials Repairers, except Brickmasons	9	10	1	11.1%	1	1	2	Moderate OJT	Work Exp.
49-9051 Electrical Power-Line Installers and Repairers	1,603	1,628	25	1.6%	25	574	599	Post-sec.	Post-sec. + Work Exp.
49-9052 Telecommunications Line Installers and Repairers	1,620	1,597	-23	-1.4%	0	248	248	Long OJT	Assoc.
49-9061 Camera and Photographic Equipment Repairers	70	75	5	7.1%	5	21	26	Moderate OJT	Work Exp.
49-9062 Medical Equipment Repairers	678	772	94	13.9%	94	209	303	Post-sec.	Assoc.
49-9063 Musical Instrument Repairers and Tuners	100	99	-1	-1.0%	0	29	29	Long OJT	Assoc.
49-9064 Watch Repairers	37	41	4	10.8%	4	11	15	Long OJT	Post-sec.
49-9069 Precision Instrument and Equipment Repairers, All Other	535	526	-9	-1.7%	0	153	153	Long OJT	Post-sec.
49-9091 Coin, Vending, and Amusement Machine Servicers and Repairers	440	480	40	9.1%	40	153	193	Moderate OJT	Work Exp.
49-9093 Fabric Menders, Except Garment	5	6	1	20.0%	1	1	2	Moderate OJT	Work Exp.
49-9094 Locksmiths and Safe Repairers	355	388	33	9.3%	33	57	90	Moderate OJT	Post-sec.
49-9095 Manufactured Building and Mobile Home Installers	119	123	4	3.4%	4	8	12	Moderate OJT	Work Exp.
49-9096 Riggers	266	270	4	1.5%	4	41	45	Moderate OJT	Work Exp.
49-9097 Signal and Track Switch Repairers	109	111	2	1.8%	2	17	19	Post-sec.	Post-sec. + Work Exp.

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49-9098 Installation, Maintenance, and Repair Worker's Helpers	1,620	1,756	136	8.4%	136	809	945	Short OJT	Work Exp.
49-9099 Installation, Maintenance, and Repair Workers, All Other	3,156	3,333	177	5.6%	177	499	676	Long OJT	Post-sec.
Production	124,535	124,279	-256	-0.2%	2,160	24,665	26,825		
51-0000 Production Occupations	124,535	124,279	-256	-0.2%	2,160	24,665	26,825		
51-1000 Supervisors, Production Workers	8,577	8,556	-21	-0.2%	0	1,156	1,156		
51-1011 Supervisors and Managers of Production and Operating Workers	8,577	8,556	-21	-0.2%	0	1,156	1,156	Work Exp.	Bachelor's
51-2000 Assemblers and Fabricators	24,066	23,410	-656	-2.7%	20	4,836	4,856		
51-2011 Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	168	185	17	10.1%	17	37	54	Long OJT	Work Exp.
51-2021 Coil Winders, Tapers, and Finishers	270	269	-1	-0.4%	0	42	42	Short OJT	Work Exp.
51-2022 Electrical and Electronic Equipment Assemblers	5,904	5,847	-57	-1.0%	0	907	907	Short OJT	Work Exp.
51-2023 Electromechanical Equipment Assemblers	508	511	3	0.6%	3	79	82	Short OJT	Work Exp.
51-2031 Engine and Other Machine Assemblers	410	401	-9	-2.2%	0	85	85	Moderate OJT	Post-sec.
51-2041 Structural Metal Fabricators and Fitters	2,058	1,969	-89	-4.3%	0	423	423	Long OJT	Post-sec.
51-2091 Fiberglass Laminators and Fabricators	535	531	-4	-0.7%	0	120	120	Moderate OJT	Work Exp.
51-2092 Assemblers, Multi-task or Team	9,323	8,905	-418	-4.5%	0	2,053	2,053	Moderate OJT	Work Exp.
51-2099 Assemblers and Fabricators, All Other	4,890	4,792	-98	-2.0%	0	1,090	1,090	Moderate OJT	Work Exp.
51-3000 Food Processing Workers	6,783	7,466	683	10.1%	683	1,996	2,679		
51-3011 Bakers	2,469	2,727	258	10.4%	258	666	924	Long OJT	Work Exp.
51-3021 Butchers and Meat Cutters	1,504	1,678	174	11.6%	174	510	684	Long OJT	Post-sec.
51-3022 Meat, Poultry, and Fish Cutters and Trimmers	611	672	61	10.0%	61	205	266	Short OJT	Work Exp.
51-3023 Slaughterers and Meat Packers	307	334	27	8.8%	27	103	130	Moderate OJT	Work Exp.
51-3091 Food Roasting, Baking, and Drying Machine Operators and Tenders	249	272	23	9.2%	23	75	98	Short OJT	Work Exp.
51-3092 Food Mixing and Blending Machine Operators and Tenders	1,131	1,224	93	8.2%	93	283	376	Short OJT	Work Exp.
51-3093 Food Cooking Machine Operators and Tenders	512	559	47	9.2%	47	154	201	Short OJT	Work Exp.
51-4000 Metal Workers and Plastic Workers	23,248	22,826	-422	-1.8%	7	4,923	4,930		
51-4011 Computer-Controlled Machine Tool Operators, Metal and Plastic	2,418	2,391	-27	-1.1%	0	470	470	Long OJT	Post-sec.
51-4012 Numerical Tool and Process Control Programmers	384	381	-3	-0.8%	0	75	75	Post-sec.	Post-sec. + Work Exp.
51-4021 Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	602	587	-15	-2.5%	0	116	116	Moderate OJT	Work Exp.
51-4022 Forging Machine Setters, Operators, and Tenders, Metal and Plastic	88	84	-4	-4.5%	0	17	17	Moderate OJT	Work Exp.
51-4023 Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	174	166	-8	-4.6%	0	33	33	Moderate OJT	Work Exp.
51-4031 Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	2,155	2,143	-12	-0.6%	0	424	424	Moderate OJT	Work Exp.
51-4032 Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	275	277	2	0.7%	2	23	25	Moderate OJT	Work Exp.
51-4033 Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1,227	1,179	-48	-3.9%	0	176	176	Moderate OJT	Work Exp.
51-4034 Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	379	375	-4	-1.1%	0	62	62	Moderate OJT	Work Exp.

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	2008	2018	Change	Percent Change	Due to Growth*	Due to Replacement	Total		
51-4035 Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	181	178	-3	-1.7%	0	35	35	Moderate OJT	Work Exp.
51-4041 Machinists	3,482	3,442	-40	-1.1%	0	457	457	Long OJT	Post-sec.
51-4051 Metal-Refining Furnace Operators and Tenders	315	286	-29	-9.2%	0	59	59	Moderate OJT	Work Exp.
51-4052 Pourers and Casters, Metal	199	180	-19	-9.5%	0	37	37	Moderate OJT	Work Exp.
51-4061 Model Makers, Metal and Plastic	26	26	0	0.0%	0	2	2	Long OJT	Work Exp.
51-4062 Patternmakers, Metal and Plastic	58	58	0	0.0%	0	3	3	Long OJT	Work Exp.
51-4071 Foundry Mold Makers and Coremakers	385	353	-32	-8.3%	0	77	77	Moderate OJT	Work Exp.
51-4072 Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	1,260	1,204	-56	-4.4%	0	255	255	Moderate OJT	Work Exp.
51-4081 Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	945	946	1	0.1%	1	185	186	Moderate OJT	Post-sec.
51-4111 Tool and Die Makers	423	413	-10	-2.4%	0	25	25	Long OJT	Post-sec.
51-4121 Welders, Cutters, Solderers, and Brazers	5,550	5,466	-84	-1.5%	0	1,687	1,687	Long OJT	Post-sec.
51-4122 Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	313	304	-9	-2.9%	0	95	95	Moderate OJT	Post-sec.
51-4191 Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	324	311	-13	-4.0%	0	144	144	Moderate OJT	Work Exp.
51-4192 Lay-Out Workers, Metal and Plastic	100	96	-4	-4.0%	0	19	19	Long OJT	Work Exp.
51-4193 Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	485	482	-3	-0.6%	0	129	129	Moderate OJT	Work Exp.
51-4194 Tool Grinders, Filers, and Sharpeners	669	673	4	0.6%	4	208	212	Long OJT	Work Exp.
51-4199 Metal Workers and Plastic Workers, All Other	831	825	-6	-0.7%	0	110	110	Moderate OJT	Post-sec.
51-5000 Printing Workers	4,085	3,525	-560	-13.7%	0	614	614		
51-5011 Bindery Workers	814	688	-126	-15.5%	0	110	110	Moderate OJT	Work Exp.
51-5012 Bookbinders	63	50	-13	-20.6%	0	8	8	Moderate OJT	Work Exp.
51-5021 Job Printers	414	358	-56	-13.5%	0	14	14	Long OJT	Work Exp.
51-5022 Prepress Technicians and Workers	834	717	-117	-14.0%	0	98	98	Long OJT	Post-sec.
51-5023 Printing Press Machine Operators	1,960	1,712	-248	-12.7%	0	384	384	Moderate OJT	Work Exp.
51-6000 Textile, Apparel, and Furnishings Workers	6,294	6,683	389	6.2%	389	715	1,104		
51-6011 Laundry and Dry-Cleaning Workers	2,128	2,339	211	9.9%	211	389	600	Moderate OJT	Work Exp.
51-6021 Pressers, Textile, Garment, and Related Materials	653	682	29	4.4%	29	29	58	Short OJT	Work Exp.
51-6031 Sewing Machine Operators	1,635	1,662	27	1.7%	27	91	118	Moderate OJT	Work Exp.
51-6041 Shoe and Leather Workers and Repairers	210	230	20	9.5%	20	27	47	Long OJT	Work Exp.
51-6042 Shoe Machine Operators and Tenders	388	413	25	6.4%	25	42	67	Moderate OJT	Work Exp.
51-6051 Sewers, Hand	66	73	7	10.6%	7	7	14	Short OJT	Work Exp.
51-6052 Tailors, Dressmakers, and Custom Sewers	296	325	29	9.8%	29	33	62	Work Exp.	Post-sec.
51-6061 Textile Bleaching and Dyeing Machine Operators and Tenders	1	1	0	0.0%	0	0	0	Moderate OJT	Work Exp.
51-6062 Textile Cutting Machine Setters, Operators, and Tenders	85	85	0	0.0%	0	15	15	Moderate OJT	Work Exp.
51-6063 Textile Knitting and Weaving Machine Setters, Operators, and Tenders	6	6	0	0.0%	0	0	0	Long OJT	Work Exp.
51-6092 Fabric and Apparel Patternmakers	106	115	9	8.5%	9	12	21	Long OJT	Work Exp.
51-6093 Upholsterers	425	441	16	3.8%	16	27	43	Long OJT	Work Exp.
51-6099 Textile, Apparel, and Furnishings Workers, All Other	295	311	16	5.4%	16	43	59	Moderate OJT	Work Exp.
51-7000 Woodworkers	8,533	8,394	-139	-1.6%	9	1,751	1,760		

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	2008	2018	Change	Percent Change	Due to Growth*	Due to Replacement	Total		
51-7011 Cabinetmakers and Bench Carpenters	2,404	2,347	-57	-2.4%	0	535	535	Long OJT	Work Exp.
51-7021 Furniture Finishers	353	358	5	1.4%	5	80	85	Long OJT	Work Exp.
51-7032 Patternmakers, Wood	46	44	-2	-4.3%	0	10	10	Long OJT	Work Exp.
51-7041 Sawing Machine Setters, Operators, and Tenders, Wood	2,172	2,154	-18	-0.8%	0	389	389	Moderate OJT	Work Exp.
51-7042 Woodworking Machine Setters, Operators, and Tenders, Except Sawing	2,682	2,611	-71	-2.6%	0	539	539	Moderate OJT	Work Exp.
51-7099 Woodworkers, All Other	876	880	4	0.5%	4	198	202	Moderate OJT	Work Exp.
51-8000 Plant and System Operators	2,363	2,414	51	2.2%	137	548	685		
51-8012 Power Distributors and Dispatchers	253	254	1	0.4%	1	88	89	Long OJT	Bachelor's
51-8013 Power Plant Operators	88	98	10	11.4%	10	32	42	Long OJT	Bachelor's
51-8021 Stationary Engineers and Boiler Operators	427	345	-82	-19.2%	0	65	65	Long OJT	Work Exp.
51-8031 Water and Liquid Waste Treatment Plant and System Operators	1,186	1,305	119	10.0%	119	268	387	Post-sec.	Post-sec. + Work Exp.
51-8091 Chemical Plant and System Operators	112	112	0	0.0%	0	26	26	Long OJT	Post-sec.
51-8093 Petroleum Pump System Operators, Refinery Operators, and Gaugers	92	99	7	7.6%	7	22	29	Long OJT	Post-sec.
51-8099 Plant and System Operators, All Other	205	201	-4	-2.0%	0	47	47	Long OJT	Post-sec.
51-9000 Other Production Occupations	40,586	41,005	419	1.0%	915	8,126	9,041		
51-9011 Chemical Equipment Operators and Tenders	342	353	11	3.2%	11	29	40	Moderate OJT	Work Exp.
51-9012 Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	815	880	65	8.0%	65	70	135	Moderate OJT	Work Exp.
51-9021 Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	645	617	-28	-4.3%	0	108	108	Moderate OJT	Work Exp.
51-9022 Grinding and Polishing Workers, Hand	654	634	-20	-3.1%	0	110	110	Moderate OJT	Work Exp.
51-9023 Mixing and Blending Machine Setters, Operators, and Tenders	1,020	1,073	53	5.2%	53	178	231	Moderate OJT	Work Exp.
51-9031 Cutters and Trimmers, Hand	346	346	0	0.0%	0	74	74	Short OJT	Work Exp.
51-9032 Cutting and Slicing Machine Setters, Operators, and Tenders	932	919	-13	-1.4%	0	198	198	Moderate OJT	Work Exp.
51-9041 Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	1,288	1,243	-45	-3.5%	0	261	261	Moderate OJT	Work Exp.
51-9051 Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	406	388	-18	-4.4%	0	40	40	Moderate OJT	Work Exp.
51-9061 Inspectors, Testers, Sorters, Samplers, and Weighers	5,468	5,479	11	0.2%	11	918	929	Moderate OJT	Post-sec.
51-9071 Jewelers and Precious Stone and Metal Workers	383	386	3	0.8%	3	79	82	Post-sec.	Post-sec. + Work Exp.
51-9081 Dental Laboratory Technicians	938	1,005	67	7.1%	67	188	255	Long OJT	Post-sec.
51-9082 Medical Appliance Technicians	106	113	7	6.6%	7	21	28	Long OJT	Post-sec.
51-9083 Ophthalmic Laboratory Technicians	468	479	11	2.4%	11	92	103	Moderate OJT	Work Exp.
51-9111 Packaging and Filling Machine Operators and Tenders	5,060	5,367	307	6.1%	307	873	1,180	Short OJT	Work Exp.
51-9121 Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	1,241	1,196	-45	-3.6%	0	320	320	Moderate OJT	Work Exp.
51-9122 Painters, Transportation Equipment	952	975	23	2.4%	23	253	276	Moderate OJT	Work Exp.
51-9123 Painting, Coating, and Decorating Workers	648	673	25	3.9%	25	173	198	Long OJT	Post-sec.
51-9131 Photographic Process Workers	172	194	22	12.8%	22	45	67	Moderate OJT	Post-sec.
51-9132 Photographic Processing Machine Operators	403	447	44	10.9%	44	104	148	Short OJT	Work Exp.
51-9141 Semiconductor Processors	2,397	2,331	-66	-2.8%	0	487	487	Work Exp.	Work Exp.

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		2008	2018	Change	Percent Change	Due to Growth*	Due to Replacement	Total		
51-9191	Cementing and Gluing Machine Operators and Tenders	486	468	-18	-3.7%	0	117	117	Moderate OJT	Work Exp.
51-9192	Cleaning, Washing, and Pickling Equipment Operators and Tenders	438	461	23	5.3%	23	93	116	Moderate OJT	Work Exp.
51-9193	Cooling and Freezing Equipment Operators and Tenders	120	128	8	6.7%	8	26	34	Moderate OJT	Work Exp.
51-9194	Etchers and Engravers	139	140	1	0.7%	1	8	9	Long OJT	Post-sec.
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	524	508	-16	-3.1%	0	255	255	Moderate OJT	Work Exp.
51-9196	Paper Goods Machine Setters, Operators, and Tenders	1,309	1,082	-227	-17.3%	0	250	250	Moderate OJT	Work Exp.
51-9197	Tire Builders	130	134	4	3.1%	4	45	49	Moderate OJT	Work Exp.
51-9198	Production Worker's Helpers	4,753	4,770	17	0.4%	17	833	850	Short OJT	Work Exp.
51-9199	Production Workers, All Other	8,003	8,216	213	2.7%	213	1,878	2,091	Moderate OJT	Work Exp.
	Transportation and Material Moving	131,846	141,039	9,193	7.0%	9,325	33,016	42,341		
53-0000	Transportation and Material Moving Occupations	131,846	141,039	9,193	7.0%	9,325	33,016	42,341		
53-1000	Supervisors, Transportation and Material Moving Workers	5,000	5,399	399	8.0%	399	901	1,300		
53-1011	Aircraft Cargo Handling Supervisors	52	57	5	9.6%	5	9	14	Work Exp.	Work Exp.
53-1021	Supervisors and Managers of Transportation Helpers, Laborers, and Material Movers, Hand	1,899	2,050	151	8.0%	151	342	493	Work Exp.	Assoc.
53-1031	Supervisors and Managers of Transportation and Material-Moving Machine and Vehicle Operators	3,049	3,292	243	8.0%	243	550	793	Work Exp.	Bachelor's
53-2000	Air Transportation Workers	1,632	1,730	98	6.0%	98	571	669		
53-2011	Airline Pilots, Copilots, and Flight Engineers	697	729	32	4.6%	32	242	274	Post-sec.	Assoc.
53-2012	Commercial Pilots, Exclude Airline Pilots	626	666	40	6.4%	40	219	259	Post-sec.	Post-sec. + Work Exp.
53-2021	Air Traffic Controllers	251	272	21	8.4%	21	89	110	Post-sec.	Post-sec. + Work Exp.
53-2022	Airfield Operations Specialists	58	63	5	8.6%	5	21	26	Long OJT	Work Exp.
53-3000	Motor Vehicle Operators	52,054	55,959	3,905	7.5%	3,905	9,612	13,517		
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	111	128	17	15.3%	17	21	38	Moderate OJT	Work Exp.
53-3021	Bus Drivers, Transit and Intercity	2,913	3,219	306	10.5%	306	535	841	Moderate OJT	Work Exp.
53-3022	Bus Drivers, School	6,247	6,714	467	7.5%	467	1,132	1,599	Short OJT	Work Exp.
53-3031	Driver/Sales Workers	6,256	6,858	602	9.6%	602	1,173	1,775	Short OJT	Work Exp.
53-3032	Truck Drivers, Heavy and Tractor-Trailer	24,317	25,915	1,598	6.6%	1,598	4,493	6,091	Post-sec.	Post-sec. + Work Exp.
53-3033	Truck Drivers, Light or Delivery Services	9,383	10,032	649	6.9%	649	1,737	2,386	Moderate OJT	Work Exp.
53-3041	Taxi Drivers and Chauffeurs	1,569	1,740	171	10.9%	171	293	464	Short OJT	Work Exp.
53-3099	Motor Vehicle Operators, All Other	1,258	1,353	95	7.6%	95	228	323	Short OJT	Work Exp.
53-4000	Rail Transportation Workers	1,677	1,696	19	1.1%	22	554	576		
53-4011	Locomotive Engineers	444	445	1	0.2%	1	143	144	Moderate OJT	Work Exp.
53-4012	Locomotive Firers	17	17	0	0.0%	0	5	5	Moderate OJT	Work Exp.
53-4013	Rail Yard Engineers, Dinkey Operators, and Hostlers	59	58	-1	-1.7%	0	19	19	Moderate OJT	Work Exp.
53-4021	Railroad Brake, Signal, and Switch Operators	440	438	-2	-0.5%	0	142	142	Moderate OJT	Work Exp.
53-4031	Railroad Conductors and Yardmasters	533	534	1	0.2%	1	182	183	Moderate OJT	Work Exp.
53-4041	Subway and Streetcar Operators	170	190	20	11.8%	20	58	78	Moderate OJT	Work Exp.
53-4099	Rail Transportation Workers, All Other	14	14	0	0.0%	0	5	5	Moderate OJT	Work Exp.
53-5000	Water Transportation Workers	756	929	173	22.9%	173	357	530		
53-5011	Sailors and Marine Oilers	347	431	84	24.2%	84	167	251	Short OJT	Work Exp.
53-5021	Captains, Mates, and Pilots of Water Vessels	279	339	60	21.5%	60	129	189	Post-sec.	Post-sec. + Work Exp.
53-5022	Motorboat Operators	54	58	4	7.4%	4	23	27	Moderate OJT	Work Exp.
53-5031	Ship Engineers	76	101	25	32.9%	25	38	63	Work Exp.	Post-sec.

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	2008	2018	Change	Percent Change	Due to Growth*	Due to Replacement	Total		
53-6000 Other Transportation Workers	9,800	10,879	1,079	11.0%	1,079	4,113	5,192		
53-6011 Bridge and Lock Tenders	34	37	3	8.8%	3	13	16	Short OJT	Work Exp.
53-6021 Parking Lot Attendants	1,412	1,551	139	9.8%	139	533	672	Short OJT	Work Exp.
53-6031 Service Station Attendants	7,445	8,326	881	11.8%	881	3,280	4,161	Short OJT	Work Exp.
53-6041 Traffic Technicians	59	67	8	13.6%	8	23	31	Short OJT	Post-sec.
53-6051 Transportation Inspectors	396	410	14	3.5%	14	95	109	Work Exp.	Post-sec.
53-6099 Transportation Workers, All Other	454	488	34	7.5%	34	169	203	Short OJT	Work Exp.
53-7000 Material Moving Workers	60,927	64,447	3,520	5.8%	3,649	16,908	20,557		
53-7011 Conveyor Operators and Tenders	270	269	-1	-0.4%	0	78	78	Short OJT	Work Exp.
53-7021 Crane and Tower Operators	648	640	-8	-1.2%	0	150	150	Moderate OJT	Work Exp.
53-7031 Dredge Operators	33	34	1	3.0%	1	10	11	Moderate OJT	Work Exp.
53-7032 Excavating and Loading Machine and Dragline Operators	1,350	1,323	-27	-2.0%	0	389	389	Moderate OJT	Work Exp.
53-7041 Hoist and Winch Operators	358	340	-18	-5.0%	0	98	98	Moderate OJT	Work Exp.
53-7051 Fork Lift, Industrial Truck and Tractor Operators	9,823	10,217	394	4.0%	394	2,986	3,380	Short OJT	Work Exp.
53-7061 Cleaners of Vehicles and Equipment	4,144	4,488	344	8.3%	344	1,535	1,879	Short OJT	Work Exp.
53-7062 Laborers and Freight, Stock, and Material Movers, Hand	25,735	27,380	1,645	6.4%	1,645	8,547	10,192	Short OJT	Work Exp.
53-7063 Machine Feeders and Offbearers	6,134	6,059	-75	-1.2%	0	687	687	Short OJT	Work Exp.
53-7064 Packers and Packagers, Hand	9,083	9,870	787	8.7%	787	1,575	2,362	Short OJT	Work Exp.
53-7072 Pump Operators, Except Wellhead Pumpers	79	82	3	3.8%	3	23	26	Moderate OJT	Work Exp.
53-7081 Refuse and Recyclable Material Collectors	1,923	2,325	402	20.9%	402	619	1,021	Short OJT	Work Exp.
53-7121 Tank Car, Truck, and Ship Loaders	299	313	14	4.7%	14	89	103	Moderate OJT	Work Exp.
53-7199 Material Moving Workers, All Other	1,048	1,107	59	5.6%	59	122	181	Short OJT	Work Exp.
Nonclassifiable**	25,702	28,025	2,323	9.0%	2,323	6,102	8,425		
66-0000 Nonclassifiable Occupations	25,702	28,025	2,323	9.0%	2,323	6,102	8,425		
66-2000 Nonclassifiable Occupations	25,702	28,025	2,323	9.0%	2,323	6,102	8,425		
66-2021 Leased Workers	8,551	8,893	342	4.0%	342	1,981	2,323		
66-2031 Sheltered Workshop Workers	1,599	1,939	340	21.3%	340	402	742		
66-2041 Non-covered Agricultural Workers	4,385	4,385	0	0.0%	0	996	996		
66-2051 Home Care Workers	11,167	12,808	1,641	14.7%	1,641	2,723	4,364		

*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.