

**NORTH CENTRAL WORKFORCE INVESTMENT AREA OCCUPATIONAL OUTLOOK, 2008-2018**

Occupation Code	Occupation Title	Employment		Employment Change, 2008-2018		Total Openings	Mean Hourly Wage	Education and Training
		2008	2018	Numeric	Percent			
00-0000	Total, All Occupations	104,550	111,510	6,960	6.7%	32,400	\$16.12	
11-1011	Chief Executives	420	410	-20	-4.5%	120	\$50.83	Bachelor's or higher degree, plus work experience
11-1021	General and Operations Managers	1,680	1,650	-30	-1.5%	490	\$41.48	Bachelor's or higher degree, plus work experience
11-1031	Legislators	50	50	0	2.0%	20	N/A	Bachelor's or higher degree, plus work experience
11-2021	Marketing Managers	90	90	10	5.9%	20	\$44.62	Bachelor's or higher degree, plus work experience
11-2022	Sales Managers	80	90	10	11.4%	30	\$39.49	Bachelor's or higher degree, plus work experience
11-3031	Financial Managers	220	230	20	7.4%	60	\$39.43	Bachelor's or higher degree, plus work experience
11-3041	Compensation and Benefits Managers	20	20	0	9.5%	10	N/A	Bachelor's or higher degree, plus work experience
11-3042	Training and Development Managers	40	50	10	21.6%	20	N/A	Bachelor's or higher degree, plus work experience
11-3049	Human Resources Managers, All Other	30	30	0	0.0%	10	N/A	Bachelor's or higher degree, plus work experience
11-3051	Industrial Production Managers	150	160	10	3.9%	60	\$39.25	Work experience in a related occupation
11-3061	Purchasing Managers	30	30	0	3.4%	10	\$37.81	Bachelor's or higher degree, plus work experience
11-3071	Transportation, Storage, and Distribution Managers	40	40	0	-2.4%	10	\$27.18	Work experience in a related occupation
11-9021	Construction Managers	230	280	50	22.0%	70	\$34.95	Bachelor's degree
11-9032	Education Administrators, Elementary and Secondary School	170	170	0	-1.8%	50	N/A	Bachelor's or higher degree, plus work experience
11-9033	Education Administrators, Postsecondary	30	30	0	-6.1%	10	N/A	Bachelor's or higher degree, plus work experience
11-9041	Engineering Managers	120	130	10	7.7%	30	\$54.96	Bachelor's or higher degree, plus work experience
11-9051	Food Service Managers	250	270	20	9.3%	70	\$17.54	Work experience in a related occupation
11-9061	Funeral Directors	50	60	10	11.5%	20	N/A	Associate degree
11-9131	Postmasters and Mail Superintendents	60	50	-10	-22.6%	10	\$25.23	Work experience in a related occupation
11-9141	Property, Real Estate, and Community Association Managers	290	310	20	7.3%	70	\$17.04	Bachelor's degree
11-9151	Social and Community Service Managers	70	70	0	4.3%	20	\$19.87	Bachelor's degree
11-9199	Managers, All Other	70	70	0	1.4%	20	\$39.54	Work experience in a related occupation
13-1021	Purchasing Agents and Buyers, Farm Products	30	30	0	-9.4%	10	\$18.61	Long-term on-the-job training
13-1022	Wholesale and Retail Buyers, Except Farm Products	80	80	0	-5.1%	20	\$24.30	Long-term on-the-job training
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	190	220	30	16.1%	80	\$23.03	Long-term on-the-job training
13-1041	Compliance Officers, Except Agriculture, Construction, Health and Safety,	130	170	40	28.6%	50	\$27.21	Long-term on-the-job training
13-1051	Cost Estimators	140	200	60	40.8%	90	\$22.16	Bachelor's degree
13-1061	Emergency Management Specialists	20	30	0	16.7%	10	N/A	Work experience in a related occupation
13-1072	Compensation, Benefits, and Job Analysis Specialists	50	60	10	13.0%	20	N/A	Bachelor's degree
13-1073	Training and Development Specialists	100	110	20	20.0%	40	N/A	Bachelor's degree
13-1079	Human Resources, Training, and Labor Relations Specialists, All Other	40	40	0	11.1%	10	N/A	Bachelor's degree
13-1081	Logisticians	40	50	10	15.0%	20	N/A	Bachelor's degree
13-1111	Management Analysts	200	220	20	12.1%	60	\$31.86	Bachelor's or higher degree, plus work experience
13-1199	Business Operations Specialists, All Other	200	210	10	2.5%	50	\$27.50	Bachelor's degree
13-2011	Accountants and Auditors	870	1,000	120	14.2%	270	\$25.95	Bachelor's degree
13-2041	Credit Analysts	50	50	10	13.3%	10	\$26.41	Bachelor's degree
13-2051	Financial Analysts	40	50	10	25.6%	20	\$30.46	Bachelor's degree
13-2072	Loan Officers	340	360	20	7.2%	60	\$28.89	Moderate-term on-the-job training
13-2081	Tax Examiners, Collectors, and Revenue Agents	40	40	0	5.1%	20	\$18.93	Bachelor's degree
15-1021	Computer Programmers	170	150	-20	-11.1%	30	N/A	Bachelor's degree
15-1031	Computer Software Engineers, Applications	180	230	60	31.5%	70	N/A	Bachelor's degree
15-1032	Computer Software Engineers, Systems Software	50	70	10	27.5%	20	N/A	Bachelor's degree
15-1041	Computer Support Specialists	290	290	0	-1.0%	80	N/A	Associate degree
15-1051	Computer Systems Analysts	140	160	20	14.9%	50	N/A	Bachelor's degree
15-1061	Database Administrators	40	50	0	2.3%	10	N/A	Bachelor's degree
15-1071	Network and Computer Systems Administrators	140	150	10	8.0%	30	N/A	Bachelor's degree
15-1081	Network Systems and Data Communications Analysts	100	140	50	50.0%	70	N/A	Bachelor's degree
17-1021	Cartographers and Photogrammetrists	20	20	0	18.8%	10	\$33.19	Bachelor's degree
17-2041	Chemical Engineers	100	100	0	1.0%	30	N/A	Bachelor's degree
17-2051	Civil Engineers	90	100	10	16.1%	30	\$37.42	Bachelor's degree
17-2071	Electrical Engineers	130	130	10	3.9%	30	\$38.89	Bachelor's degree
17-2072	Electronics Engineers, Except Computer	50	50	0	-8.0%	10	\$37.98	Bachelor's degree
17-2081	Environmental Engineers	20	20	0	20.0%	10	\$35.34	Bachelor's degree
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspect	40	40	0	4.8%	10	\$31.27	Bachelor's degree
17-2112	Industrial Engineers	140	160	30	18.8%	60	\$38.16	Bachelor's degree
17-2131	Materials Engineers	40	40	10	14.3%	10	N/A	Bachelor's degree

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		2008	2018	Numeric	Percent			
17-2141	Mechanical Engineers	230	250	20	9.6%	80	\$31.16	Bachelor's degree
17-2171	Petroleum Engineers	150	210	50	34.4%	90	\$59.48	Bachelor's degree
17-3011	Architectural and Civil Drafters	60	60	0	7.0%	20	\$20.56	Postsecondary vocational training
17-3012	Electrical and Electronics Drafters	40	30	0	-11.4%	10	\$21.47	Postsecondary vocational training
17-3013	Mechanical Drafters	130	140	10	8.6%	40	\$22.22	Postsecondary vocational training
17-3025	Environmental Engineering Technicians	70	100	30	34.2%	40	\$13.85	Associate degree
17-3027	Mechanical Engineering Technicians	60	60	10	8.5%	20	\$18.45	Associate degree
17-3029	Engineering Technicians, Except Drafters, All Other	50	50	0	1.9%	10	N/A	Associate degree
17-3031	Surveying and Mapping Technicians	70	80	10	12.9%	20	\$17.36	Moderate-term on-the-job training
19-1031	Conservation Scientists	30	30	0	7.4%	10	N/A	Bachelor's degree
19-2031	Chemists	110	120	0	3.6%	40	N/A	Bachelor's degree
19-2041	Environmental Scientists and Specialists, Including Health	50	50	10	15.2%	20	\$38.67	Master's degree
19-2042	Geoscientists, Except Hydrologists and Geographers	40	40	10	13.9%	20	N/A	Master's degree
19-3021	Market Research Analysts	120	140	20	15.3%	50	N/A	Bachelor's degree
19-3031	Clinical, Counseling, and School Psychologists	60	60	0	3.2%	20	\$20.73	Doctoral degree
19-4021	Biological Technicians	60	60	0	5.5%	20	\$16.73	Bachelor's degree
19-4031	Chemical Technicians	110	120	10	8.9%	30	\$19.88	Associate degree
19-4091	Environmental Science and Protection Technicians, Including Health	20	20	10	33.3%	10	\$17.60	Associate degree
21-1011	Substance Abuse and Behavioral Disorder Counselors	90	100	10	8.6%	30	\$16.48	Bachelor's degree
21-1012	Educational, Vocational, and School Counselors	240	250	10	5.5%	60	\$20.25	Master's degree
21-1014	Mental Health Counselors	70	80	10	14.7%	20	\$19.66	Master's degree
21-1015	Rehabilitation Counselors	180	200	20	9.9%	60	\$10.98	Master's degree
21-1021	Child, Family, and School Social Workers	200	220	20	8.0%	70	\$15.85	Bachelor's degree
21-1029	Social Workers, All Other	50	60	10	12.0%	20	\$13.72	Bachelor's degree
21-1091	Health Educators	60	70	10	12.9%	20	N/A	Bachelor's degree
21-1093	Social and Human Service Assistants	100	110	10	11.5%	30	\$13.24	Moderate-term on-the-job training
21-2011	Clergy	20	20	0	4.5%	10	\$15.18	Master's degree
25-1000	Postsecondary Teachers	2,470	2,570	100	4.0%	530	N/A	
25-2011	Preschool Teachers, Except Special Education	70	70	0	0.0%	10	\$12.77	Postsecondary vocational training
25-2012	Kindergarten Teachers, Except Special Education	150	160	10	4.5%	40	N/A	Bachelor's degree
25-2021	Elementary School Teachers, Except Special Education	960	1,000	40	4.6%	260	N/A	Bachelor's degree
25-2022	Middle School Teachers, Except Special and Vocational Education	660	690	30	4.4%	180	N/A	Bachelor's degree
25-2023	Vocational Education Teachers, Middle School	50	50	0	-5.6%	10	N/A	Bachelor's or higher degree, plus work experience
25-2031	Secondary School Teachers, Except Special and Vocational Education	780	770	-10	-1.7%	230	N/A	Bachelor's degree
25-2032	Vocational Education Teachers, Secondary School	100	100	0	-1.0%	30	N/A	Bachelor's or higher degree, plus work experience
25-2041	Special Education Teachers, Preschool, Kindergarten, and Elementary School	110	120	10	7.4%	40	N/A	Bachelor's degree
25-2042	Special Education Teachers, Middle School	70	70	10	7.2%	20	N/A	Bachelor's degree
25-2043	Special Education Teachers, Secondary School	90	90	0	2.3%	20	N/A	Bachelor's degree
25-4031	Library Technicians	90	100	0	2.1%	40	N/A	Postsecondary vocational training
25-9041	Teacher Assistants	750	750	-10	-0.8%	160	N/A	Short-term on-the-job training
27-1023	Floral Designers	60	60	-10	-11.3%	20	\$10.17	Short-term on-the-job training
27-1024	Graphic Designers	130	140	10	4.7%	50	\$18.02	Bachelor's degree
27-2012	Producers and Directors	40	40	0	2.3%	10	\$20.42	Bachelor's or higher degree, plus work experience
27-2041	Music Directors and Composers	30	30	0	10.7%	10	\$19.76	Bachelor's or higher degree, plus work experience
27-3011	Radio and Television Announcers	100	90	-10	-10.0%	30	\$10.36	Long-term on-the-job training
27-3031	Public Relations Specialists	80	100	20	19.3%	40	\$20.40	Bachelor's degree
27-3041	Editors	30	20	0	-11.1%	10	\$21.65	Bachelor's degree
27-3042	Technical Writers	20	30	0	19.0%	10	\$25.45	Bachelor's degree
27-3043	Writers and Authors	50	60	10	15.1%	20	\$17.49	Bachelor's degree
27-3091	Interpreters and Translators	20	30	0	8.7%	10	N/A	Long-term on-the-job training
27-4011	Audio and Video Equipment Technicians	50	50	0	8.3%	20	N/A	Postsecondary vocational training
27-4021	Photographers	220	240	20	8.6%	60	\$11.26	Long-term on-the-job training
29-1041	Optometrists	40	50	10	15.9%	20	N/A	First professional degree
29-1051	Pharmacists	130	140	10	4.7%	40	\$50.01	First professional degree
29-1062	Family and General Practitioners	80	80	10	9.3%	20	\$82.72	First professional degree
29-1067	Surgeons	20	30	0	8.7%	10	\$113.71	First professional degree
29-1069	Physicians and Surgeons, All Other	320	360	40	11.5%	90	\$94.01	First professional degree

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29-1071	Physician Assistants	50	60	10	21.7%	20	\$40.38	Master's degree
29-1111	Registered Nurses	1,240	1,360	120	9.8%	340	\$25.59	Associate degree
29-1123	Physical Therapists	100	110	20	15.6%	30	\$33.72	Master's degree
29-1125	Recreational Therapists	40	40	0	5.7%	10	\$19.85	Bachelor's degree
29-1126	Respiratory Therapists	60	70	0	4.8%	10	\$21.65	Associate degree
29-1127	Speech-Language Pathologists	80	80	0	2.6%	20	\$23.15	Master's degree
29-2011	Medical and Clinical Laboratory Technologists	110	110	0	-0.9%	20	\$22.95	Bachelor's degree
29-2012	Medical and Clinical Laboratory Technicians	50	50	0	4.0%	10	\$15.08	Associate degree
29-2021	Dental Hygienists	70	80	20	21.7%	30	\$32.07	Associate degree
29-2031	Cardiovascular Technologists and Technicians	20	30	0	8.7%	10	\$16.72	Associate degree
29-2032	Diagnostic Medical Sonographers	20	20	0	5.3%	0	\$29.46	Associate degree
29-2034	Radiologic Technologists and Technicians	90	90	0	4.7%	20	N/A	Associate degree
29-2041	Emergency Medical Technicians and Paramedics	100	100	0	-2.0%	20	\$16.61	Postsecondary vocational training
29-2051	Dietetic Technicians	50	50	0	2.0%	10	\$10.58	Postsecondary vocational training
29-2052	Pharmacy Technicians	200	240	40	17.5%	90	\$11.37	Moderate-term on-the-job training
29-2053	Psychiatric Technicians	40	40	0	-7.3%	10	N/A	Postsecondary vocational training
29-2055	Surgical Technologists	70	80	10	11.3%	30	\$16.23	Postsecondary vocational training
29-2061	Licensed Practical and Licensed Vocational Nurses	730	790	60	8.5%	290	\$16.93	Postsecondary vocational training
29-2071	Medical Records and Health Information Technicians	120	130	10	8.5%	30	\$13.48	Associate degree
29-2081	Opticians, Dispensing	40	40	0	4.9%	10	\$13.03	Long-term on-the-job training
29-9011	Occupational Health and Safety Specialists	30	30	0	3.7%	10	\$24.82	Bachelor's degree
31-1012	Nursing Aides, Orderlies, and Attendants	1,130	1,200	70	6.3%	180	\$9.32	Postsecondary vocational training
31-2021	Physical Therapist Assistants	60	70	10	17.9%	20	\$17.81	Associate degree
31-2022	Physical Therapist Aides	30	40	10	23.3%	10	\$9.64	Short-term on-the-job training
31-9091	Dental Assistants	200	240	40	20.9%	80	\$11.40	Moderate-term on-the-job training
31-9092	Medical Assistants	350	410	60	17.7%	100	\$10.58	Moderate-term on-the-job training
31-9093	Medical Equipment Preparers	30	30	0	3.6%	0	\$14.54	Short-term on-the-job training
31-9094	Medical Transcriptionists	70	70	0	-1.4%	10	\$12.33	Postsecondary vocational training
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	80	90	10	16.0%	20	\$9.25	Short-term on-the-job training
31-9099	Healthcare Support Workers, All Other	110	110	10	4.6%	20	N/A	Short-term on-the-job training
33-1011	First-Line Supervisors/Managers of Correctional Officers	40	40	0	11.4%	20	\$32.00	Work experience in a related occupation
33-1012	First-Line Supervisors/Managers of Police and Detectives	50	60	10	9.4%	30	\$28.59	Work experience in a related occupation
33-1021	First-Line Supervisors/Managers of Fire Fighting and Prevention Workers	50	50	0	8.3%	30	\$28.19	Work experience in a related occupation
33-1099	First-Line Supervisors/Managers, Protective Service Workers, All Other	50	50	0	6.4%	20	\$27.70	Work experience in a related occupation
33-2011	Fire Fighters	260	320	60	21.1%	140	\$21.21	Long-term on-the-job training
33-3012	Correctional Officers and Jailers	480	570	100	19.8%	200	\$11.91	Moderate-term on-the-job training
33-3021	Detectives and Criminal Investigators	50	50	10	13.3%	20	N/A	Work experience in a related occupation
33-3051	Police and Sheriff's Patrol Officers	380	420	40	9.4%	140	\$19.57	Long-term on-the-job training
33-9011	Animal Control Workers	20	30	0	8.3%	10	\$12.08	Moderate-term on-the-job training
33-9021	Private Detectives and Investigators	50	50	0	5.9%	10	\$27.78	Work experience in a related occupation
33-9032	Security Guards	530	570	40	7.7%	150	\$12.19	Short-term on-the-job training
33-9091	Crossing Guards	20	20	0	-4.3%	10	\$8.63	Short-term on-the-job training
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	80	90	10	11.5%	60	\$8.35	Short-term on-the-job training
35-2011	Cooks, Fast Food	940	1,070	130	13.7%	370	\$8.40	Short-term on-the-job training
35-2012	Cooks, Institution and Cafeteria	640	620	-20	-2.5%	160	\$8.82	Moderate-term on-the-job training
35-2014	Cooks, Restaurant	750	880	130	17.0%	320	\$9.27	Long-term on-the-job training
35-2021	Food Preparation Workers	810	830	20	2.6%	310	\$8.17	Short-term on-the-job training
35-3011	Bartenders	370	430	60	15.4%	190	\$9.79	Short-term on-the-job training
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	1,140	1,370	240	20.8%	480	\$8.19	Short-term on-the-job training
35-3031	Waiters and Waitresses	1,780	2,050	270	15.3%	1,260	\$8.97	Short-term on-the-job training
35-9021	Dishwashers	340	410	70	19.5%	210	\$8.34	Short-term on-the-job training
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	350	410	60	16.2%	300	\$8.06	Short-term on-the-job training
37-1011	First-Line Supervisors/Managers of Housekeeping and Janitorial Workers	170	170	0	-0.6%	20	\$13.39	Work experience in a related occupation
37-1012	First-Line Supervisors/Managers of Landscaping, Lawn Service, and Grounds Maintenance Workers	210	230	20	9.6%	40	\$16.30	Work experience in a related occupation
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	1,560	1,510	-50	-3.4%	300	\$9.55	Short-term on-the-job training
37-2012	Maids and Housekeeping Cleaners	710	710	-10	-1.1%	130	\$8.83	Short-term on-the-job training
37-2021	Pest Control Workers	40	40	0	10.8%	20	\$13.05	Moderate-term on-the-job training

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37-3011	Landscaping and Groundskeeping Workers	980	1,090	110	11.2%	230	\$9.79	Short-term on-the-job training
39-1011	Gaming Supervisors	60	60	10	10.5%	20	N/A	Work experience in a related occupation
39-1012	Slot Key Persons	50	50	0	0.0%	10	N/A	Postsecondary vocational training
39-1021	First-Line Supervisors/Managers of Personal Service Workers	40	40	10	13.5%	20	\$16.76	Work experience in a related occupation
39-3011	Gaming Dealers	60	70	10	25.5%	40	\$8.94	Postsecondary vocational training
39-3091	Amusement and Recreation Attendants	210	230	30	12.6%	130	\$9.33	Short-term on-the-job training
39-5012	Hairdressers, Hairstylists, and Cosmetologists	580	680	100	16.4%	180	\$9.29	Postsecondary vocational training
39-9011	Child Care Workers	1,090	1,120	30	2.4%	350	\$8.46	Short-term on-the-job training
39-9021	Personal and Home Care Aides	280	390	120	42.4%	150	N/A	Short-term on-the-job training
39-9031	Fitness Trainers and Aerobics Instructors	130	160	30	26.4%	60	\$9.39	Postsecondary vocational training
39-9032	Recreation Workers	310	330	20	5.8%	70	\$10.54	Short-term on-the-job training
41-1011	First-Line Supervisors/Managers of Retail Sales Workers	1,520	1,490	-30	-2.0%	330	\$15.56	Work experience in a related occupation
41-1012	First-Line Supervisors/Managers of Non-Retail Sales Workers	170	170	0	1.2%	40	\$28.33	Work experience in a related occupation
41-2011	Cashiers	2,580	2,510	-70	-2.9%	1,160	\$8.66	Short-term on-the-job training
41-2021	Counter and Rental Clerks	280	280	0	-1.4%	80	\$11.77	Short-term on-the-job training
41-2031	Retail Salespersons	3,800	3,750	-50	-1.4%	1,060	\$10.51	Short-term on-the-job training
41-3011	Advertising Sales Agents	60	50	0	-6.9%	10	\$12.89	Moderate-term on-the-job training
41-3031	Securities, Commodities, and Financial Services Sales Agents	120	120	10	4.2%	40	\$42.36	Bachelor's degree
41-3099	Sales Representatives, Services, All Other	70	70	10	7.2%	20	\$23.29	Work experience in a related occupation
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific	430	440	10	2.6%	110	\$22.81	Work experience in a related occupation
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific	600	610	20	2.5%	150	\$19.04	Work experience in a related occupation
41-9021	Real Estate Brokers	60	60	0	4.9%	10	\$23.72	Work experience in a related occupation
41-9022	Real Estate Sales Agents	320	370	40	13.0%	100	\$13.84	Postsecondary vocational training
41-9041	Telemarketers	230	200	-30	-14.3%	60	\$9.65	Short-term on-the-job training
43-1011	First-Line Supervisors/Managers of Office and Administrative Support Workers	1,040	1,120	80	7.6%	310	\$19.61	Work experience in a related occupation
43-2011	Switchboard Operators, Including Answering Service	110	90	-20	-16.4%	20	\$10.23	Short-term on-the-job training
43-3021	Billing and Posting Clerks and Machine Operators	330	350	20	4.5%	70	\$12.06	Short-term on-the-job training
43-3031	Bookkeeping, Accounting, and Auditing Clerks	2,280	2,440	160	7.1%	440	\$12.53	Moderate-term on-the-job training
43-3051	Payroll and Timekeeping Clerks	180	180	-10	-3.3%	40	\$13.79	Moderate-term on-the-job training
43-3061	Procurement Clerks	80	80	0	1.3%	30	\$12.35	Moderate-term on-the-job training
43-3071	Tellers	490	520	20	4.5%	230	\$10.72	Short-term on-the-job training
43-4031	Court, Municipal, and License Clerks	110	110	10	6.5%	40	\$13.72	Short-term on-the-job training
43-4051	Customer Service Representatives	1,010	1,160	150	15.2%	470	\$11.95	Moderate-term on-the-job training
43-4071	File Clerks	80	60	-20	-28.6%	20	\$11.10	Short-term on-the-job training
43-4081	Hotel, Motel, and Resort Desk Clerks	130	160	30	23.8%	80	\$8.34	Short-term on-the-job training
43-4111	Interviewers, Except Eligibility and Loan	140	150	10	5.7%	40	\$11.41	Short-term on-the-job training
43-4121	Library Assistants, Clerical	100	110	0	4.0%	50	\$10.62	Short-term on-the-job training
43-4131	Loan Interviewers and Clerks	320	320	0	-0.3%	80	\$14.29	Short-term on-the-job training
43-4141	New Accounts Clerks	50	50	0	-1.9%	20	\$13.14	Work experience in a related occupation
43-4151	Order Clerks	40	30	-10	-31.6%	10	\$11.42	Short-term on-the-job training
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	130	120	-10	-4.7%	40	\$14.46	Short-term on-the-job training
43-4171	Receptionists and Information Clerks	730	780	50	7.0%	250	\$10.80	Short-term on-the-job training
43-4199	Information and Record Clerks, All Other	70	60	-20	-21.6%	20	N/A	Short-term on-the-job training
43-5021	Couriers and Messengers	30	30	0	-3.4%	10	\$10.48	Short-term on-the-job training
43-5031	Police, Fire, and Ambulance Dispatchers	80	90	20	19.5%	30	\$12.57	Moderate-term on-the-job training
43-5032	Dispatchers, Except Police, Fire, and Ambulance	170	160	-10	-3.0%	30	\$13.68	Moderate-term on-the-job training
43-5051	Postal Service Clerks	40	30	-10	-26.8%	10	\$25.63	Short-term on-the-job training
43-5052	Postal Service Mail Carriers	310	280	-30	-10.0%	100	\$23.89	Short-term on-the-job training
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	80	50	-30	-35.9%	10	\$16.79	Short-term on-the-job training
43-5061	Production, Planning, and Expediting Clerks	190	190	0	1.0%	50	\$22.29	Moderate-term on-the-job training
43-5071	Shipping, Receiving, and Traffic Clerks	510	470	-40	-8.0%	130	\$11.63	Short-term on-the-job training
43-5081	Stock Clerks and Order Fillers	1,100	1,090	-10	-0.9%	250	\$9.52	Short-term on-the-job training
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	20	20	0	-16.7%	10	N/A	Short-term on-the-job training
43-6011	Executive Secretaries and Administrative Assistants	630	690	50	8.0%	140	\$16.48	Work experience in a related occupation
43-6014	Secretaries, Except Legal, Medical, and Executive	1,560	1,540	-20	-1.3%	210	\$12.07	Moderate-term on-the-job training
43-9021	Data Entry Keyers	70	60	-10	-8.8%	10	\$12.28	Moderate-term on-the-job training
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	60	60	0	-6.3%	10	\$9.97	Short-term on-the-job training

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Occupation Code	Occupation Title	Employment		Employment Change, 2008-2018		Total Openings	Mean Hourly Wage	Education and Training
		2008	2018	Numeric	Percent			
43-9071	Office Machine Operators, Except Computer	20	20	0	-4.5%	10	\$12.30	Short-term on-the-job training
45-2093	Farmworkers, Farm and Ranch Animals	220	210	0	-1.4%	60	\$10.05	Short-term on-the-job training
47-1011	First-Line Supervisors/Managers of Construction Trades and Extraction Workers	700	870	170	24.3%	300	\$26.87	Work experience in a related occupation
47-2031	Carpenters	820	1,020	190	23.5%	300	\$14.51	Long-term on-the-job training
47-2041	Carpet Installers	50	60	10	11.8%	20	N/A	Moderate-term on-the-job training
47-2061	Construction Laborers	500	660	170	33.3%	200	\$12.57	Moderate-term on-the-job training
47-2071	Paving, Surfacing, and Tamping Equipment Operators	220	240	20	10.5%	60	\$14.55	Moderate-term on-the-job training
47-2073	Operating Engineers and Other Construction Equipment Operators	350	450	90	26.4%	150	\$17.14	Moderate-term on-the-job training
47-2111	Electricians	510	640	140	26.7%	260	\$20.96	Long-term on-the-job training
47-2141	Painters, Construction and Maintenance	420	470	60	14.2%	130	\$12.11	Moderate-term on-the-job training
47-2151	Pipelayers	290	390	100	35.9%	160	\$14.64	Short-term on-the-job training
47-2152	Plumbers, Pipefitters, and Steamfitters	380	460	80	22.4%	160	\$17.08	Long-term on-the-job training
47-3012	Helpers--Carpenters	60	90	30	41.7%	40	\$10.39	Short-term on-the-job training
47-4011	Construction and Building Inspectors	40	40	0	11.1%	10	\$21.62	Work experience in a related occupation
47-4051	Highway Maintenance Workers	260	300	50	17.6%	110	\$11.14	Moderate-term on-the-job training
47-5071	Roustabouts, Oil and Gas	190	200	20	9.1%	50	\$16.40	Moderate-term on-the-job training
49-1011	First-Line Supervisors/Managers of Mechanics, Installers, and Repairers	350	360	10	3.2%	100	\$27.83	Work experience in a related occupation
49-2011	Computer, Automated Teller, and Office Machine Repairers	40	30	-10	-13.9%	10	\$13.98	Postsecondary vocational training
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	60	60	0	0.0%	10	\$21.37	Postsecondary vocational training
49-2098	Security and Fire Alarm Systems Installers	20	30	10	29.2%	10	\$14.77	Postsecondary vocational training
49-3021	Automotive Body and Related Repairers	140	140	10	3.7%	40	\$17.58	Long-term on-the-job training
49-3023	Automotive Service Technicians and Mechanics	620	610	-10	-1.0%	120	\$16.03	Postsecondary vocational training
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	250	260	10	3.9%	70	\$15.86	Postsecondary vocational training
49-3041	Farm Equipment Mechanics	70	70	0	-2.7%	10	\$18.34	Long-term on-the-job training
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	100	120	20	21.0%	40	\$21.86	Long-term on-the-job training
49-3052	Motorcycle Mechanics	30	30	0	-3.2%	10	\$9.97	Long-term on-the-job training
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	350	510	160	47.5%	220	\$20.15	Postsecondary vocational training
49-9041	Industrial Machinery Mechanics	300	350	40	14.2%	90	\$18.13	Long-term on-the-job training
49-9042	Maintenance and Repair Workers, General	1,180	1,300	120	10.2%	300	N/A	Moderate-term on-the-job training
49-9043	Maintenance Workers, Machinery	240	270	30	11.3%	60	\$21.79	Moderate-term on-the-job training
49-9051	Electrical Power-Line Installers and Repairers	100	110	20	20.0%	50	\$22.57	Long-term on-the-job training
51-1011	First-Line Supervisors/Managers of Production and Operating Workers	730	750	30	3.4%	120	\$25.05	Work experience in a related occupation
51-2022	Electrical and Electronic Equipment Assemblers	50	40	0	-8.7%	10	N/A	Short-term on-the-job training
51-2092	Team Assemblers	1,220	1,300	80	6.7%	360	\$14.74	Moderate-term on-the-job training
51-2099	Assemblers and Fabricators, All Other	70	70	0	1.4%	20	\$11.16	Moderate-term on-the-job training
51-3011	Bakers	140	140	10	6.7%	40	\$8.94	Long-term on-the-job training
51-3021	Butchers and Meat Cutters	40	40	0	-4.5%	10	\$10.22	Long-term on-the-job training
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	110	130	20	18.9%	40	\$14.96	Moderate-term on-the-job training
51-4012	Numerical Tool and Process Control Programmers	20	20	0	-4.5%	0	N/A	Work experience in a related occupation
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	320	300	-20	-5.7%	60	\$13.26	Moderate-term on-the-job training
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	40	30	-10	-17.5%	0	\$13.45	Moderate-term on-the-job training
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators	50	50	0	-6.0%	10	\$11.24	Moderate-term on-the-job training
51-4041	Machinists	420	440	20	4.6%	70	\$17.94	Long-term on-the-job training
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	220	230	10	5.4%	60	\$13.66	Moderate-term on-the-job training
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	40	40	0	-7.5%	10	\$14.70	Moderate-term on-the-job training
51-4111	Tool and Die Makers	80	80	0	2.4%	10	N/A	Long-term on-the-job training
51-4121	Welders, Cutters, Solderers, and Brazers	1,080	1,140	60	5.6%	390	\$16.96	Postsecondary vocational training
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	30	30	0	0.0%	10	\$13.81	Postsecondary vocational training
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	50	50	0	0.0%	20	\$18.03	Moderate-term on-the-job training
51-4194	Tool Grinders, Filers, and Sharpeners	70	70	0	1.5%	20	N/A	Moderate-term on-the-job training
51-5021	Job Printers	80	80	-10	-7.3%	0	N/A	Long-term on-the-job training
51-5023	Printing Machine Operators	60	70	0	1.6%	10	N/A	Moderate-term on-the-job training
51-6011	Laundry and Dry-Cleaning Workers	180	180	0	2.2%	40	\$8.97	Moderate-term on-the-job training
51-7011	Cabinetmakers and Bench Carpenters	60	70	10	19.7%	30	\$13.80	Long-term on-the-job training
51-8031	Water and Liquid Waste Treatment Plant and System Operators	160	200	40	25.6%	70	\$14.78	Long-term on-the-job training
51-8092	Gas Plant Operators	110	100	0	-1.9%	20	\$25.99	Long-term on-the-job training
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	740	740	0	0.0%	170	N/A	Long-term on-the-job training

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		2008	2018	Numeric	Percent			
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	150	160	10	8.1%	40	\$13.46	Moderate-term on-the-job training
51-9022	Grinding and Polishing Workers, Hand	30	30	10	20.0%	10	N/A	Moderate-term on-the-job training
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	440	480	40	8.4%	110	\$21.59	Moderate-term on-the-job training
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	90	110	10	14.9%	40	\$13.83	Moderate-term on-the-job training
51-9198	Helpers--Production Workers	390	400	10	3.6%	80	\$11.28	Short-term on-the-job training
53-1031	First-Line Supervisors/Managers of Transportation and Material-Moving Machine Operators	130	120	-10	-8.2%	20	\$22.05	Work experience in a related occupation
53-3022	Bus Drivers, School	290	250	-40	-12.2%	50	\$9.28	Moderate-term on-the-job training
53-3031	Driver/Sales Workers	400	420	20	5.0%	90	\$10.15	Short-term on-the-job training
53-3032	Truck Drivers, Heavy and Tractor-Trailer	1,820	2,030	210	11.3%	530	\$15.48	Short-term on-the-job training
53-3033	Truck Drivers, Light or Delivery Services	330	330	10	1.8%	60	\$11.87	Short-term on-the-job training
53-3041	Taxi Drivers and Chauffeurs	30	30	0	7.4%	10	\$9.25	Short-term on-the-job training
53-6031	Service Station Attendants	20	20	0	-8.7%	10	\$12.00	Short-term on-the-job training
53-6041	Traffic Technicians	20	30	0	8.7%	10	\$16.69	Short-term on-the-job training
53-7011	Conveyor Operators and Tenders	210	170	-30	-15.6%	60	\$11.12	Short-term on-the-job training
53-7021	Crane and Tower Operators	40	40	0	-7.1%	10	\$26.30	Long-term on-the-job training
53-7032	Excavating and Loading Machine and Dragline Operators	370	430	60	15.4%	170	\$23.76	Moderate-term on-the-job training
53-7051	Industrial Truck and Tractor Operators	310	320	10	2.2%	100	\$14.24	Short-term on-the-job training
53-7061	Cleaners of Vehicles and Equipment	210	190	-20	-8.3%	70	\$9.59	Short-term on-the-job training
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	1,770	1,680	-90	-5.2%	570	\$10.14	Short-term on-the-job training
53-7064	Packers and Packagers, Hand	350	330	-20	-6.3%	60	\$9.00	Short-term on-the-job training
53-7072	Pump Operators, Except Wellhead Pumpers	60	60	-10	-11.3%	20	N/A	Moderate-term on-the-job training
53-7081	Refuse and Recyclable Material Collectors	200	230	30	14.5%	90	\$13.59	Short-term on-the-job training