

TULSA 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	405,010	433,950	28,940	7.1%	126,710	\$19.07	
11-1011	Chief Executives	2,070	1,980	-90	-4.3%	580	\$73.22	Bachelor's or higher degree, plus work experience
11-1021	General and Operations Managers	7,520	7,280	-240	-3.2%	2,180	\$47.29	Bachelor's or higher degree, plus work experience
11-1031	Legislators	60	60	0	3.4%	20	N/A	Bachelor's or higher degree, plus work experience
11-2011	Advertising and Promotions Managers	280	260	-20	-8.6%	70	\$28.07	Bachelor's or higher degree, plus work experience
11-2021	Marketing Managers	590	640	40	6.9%	170	\$47.62	Bachelor's or higher degree, plus work experience
11-2022	Sales Managers	860	960	100	11.6%	290	\$44.08	Bachelor's or higher degree, plus work experience
11-2031	Public Relations Managers	150	160	10	7.2%	50	\$29.00	Bachelor's or higher degree, plus work experience
11-3011	Administrative Services Managers	900	990	90	9.8%	280	\$31.05	Bachelor's or higher degree, plus work experience
11-3021	Computer and Information Systems Managers	530	570	40	7.4%	130	\$49.41	Bachelor's or higher degree, plus work experience
11-3031	Financial Managers	1,580	1,640	60	4.0%	350	\$46.51	Bachelor's or higher degree, plus work experience
11-3041	Compensation and Benefits Managers	230	250	10	5.1%	60	N/A	Bachelor's or higher degree, plus work experience
11-3042	Training and Development Managers	140	150	10	9.4%	40	N/A	Bachelor's or higher degree, plus work experience
11-3049	Human Resources Managers, All Other	240	260	20	7.0%	70	N/A	Bachelor's or higher degree, plus work experience
11-3051	Industrial Production Managers	730	740	10	1.2%	270	\$43.35	Work experience in a related occupation
11-3061	Purchasing Managers	240	240	0	1.3%	70	\$37.10	Bachelor's or higher degree, plus work experience
11-3071	Transportation, Storage, and Distribution Managers	260	230	-30	-9.7%	70	\$36.41	Work experience in a related occupation
11-9021	Construction Managers	1,320	1,460	140	10.8%	240	\$31.77	Bachelor's degree
11-9031	Education Administrators, Preschool and Child Care Center/Program	190	200	20	9.1%	70	\$19.81	Bachelor's or higher degree, plus work experience
11-9032	Education Administrators, Elementary and Secondary School	590	620	40	6.0%	210	N/A	Bachelor's or higher degree, plus work experience
11-9033	Education Administrators, Postsecondary	210	210	0	-0.5%	60	\$31.15	Bachelor's or higher degree, plus work experience
11-9041	Engineering Managers	430	430	0	0.9%	90	\$51.94	Bachelor's or higher degree, plus work experience
11-9051	Food Service Managers	890	920	30	3.6%	200	\$20.92	Work experience in a related occupation
11-9061	Funeral Directors	60	60	10	12.3%	20	N/A	Associate degree
11-9081	Lodging Managers	220	220	10	2.3%	50	\$18.70	Work experience in a related occupation
11-9111	Medical and Health Services Managers	1,440	1,630	190	13.5%	470	\$33.58	Bachelor's or higher degree, plus work experience
11-9121	Natural Sciences Managers	20	20	0	18.8%	10	\$80.95	Bachelor's or higher degree, plus work experience
11-9131	Postmasters and Mail Superintendents	50	40	-10	-20.0%	10	\$29.12	Work experience in a related occupation
11-9141	Property, Real Estate, and Community Association Managers	1,500	1,600	100	6.4%	350	\$32.85	Bachelor's degree
11-9151	Social and Community Service Managers	150	170	20	12.6%	50	\$20.83	Bachelor's degree
11-9199	Managers, All Other	570	590	20	4.1%	170	\$40.10	Work experience in a related occupation
13-1021	Purchasing Agents and Buyers, Farm Products	30	20	0	-7.7%	10	\$14.02	Long-term on-the-job training
13-1022	Wholesale and Retail Buyers, Except Farm Products	430	400	-30	-5.9%	110	\$23.07	Long-term on-the-job training
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	1,010	1,140	130	12.7%	400	\$26.99	Long-term on-the-job training
13-1031	Claims Adjusters, Examiners, and Investigators	680	700	20	3.1%	190	\$27.56	Long-term on-the-job training
13-1041	Compliance Officers, Except Agriculture, Construction, Health and Safety,	530	680	150	27.5%	200	\$27.93	Long-term on-the-job training
13-1051	Cost Estimators	620	740	120	19.2%	260	\$25.97	Bachelor's degree
13-1061	Emergency Management Specialists	40	50	10	18.4%	20	N/A	Work experience in a related occupation
13-1071	Employment, Recruitment, and Placement Specialists	650	820	180	27.2%	350	N/A	Bachelor's degree
13-1072	Compensation, Benefits, and Job Analysis Specialists	630	770	150	23.7%	310	N/A	Bachelor's degree
13-1073	Training and Development Specialists	1,070	1,300	230	21.5%	510	N/A	Bachelor's degree
13-1111	Management Analysts	1,650	1,760	110	6.5%	390	\$33.81	Bachelor's or higher degree, plus work experience
13-1121	Meeting and Convention Planners	60	70	10	9.5%	20	N/A	Bachelor's degree
13-1199	Business Operations Specialists, All Other	1,110	1,180	70	6.7%	320	\$29.71	Bachelor's degree
13-2011	Accountants and Auditors	5,810	6,570	760	13.1%	1,740	\$27.22	Bachelor's degree
13-2021	Appraisers and Assessors of Real Estate	160	170	10	4.3%	40	\$19.41	Associate degree
13-2031	Budget Analysts	80	90	10	11.0%	20	\$28.49	Bachelor's degree
13-2041	Credit Analysts	110	120	10	9.1%	30	N/A	Bachelor's degree
13-2051	Financial Analysts	530	610	80	15.3%	180	\$32.50	Bachelor's degree
13-2052	Personal Financial Advisors	270	340	70	25.7%	100	\$36.59	Bachelor's degree
13-2053	Insurance Underwriters	380	350	-20	-6.1%	110	\$30.44	Bachelor's degree
13-2061	Financial Examiners	140	200	50	36.1%	80	\$35.50	Bachelor's degree
13-2071	Loan Counselors	240	220	-10	-5.5%	30	\$15.75	Bachelor's degree
13-2072	Loan Officers	1,090	1,180	90	7.8%	200	\$22.44	Moderate-term on-the-job training
13-2081	Tax Examiners, Collectors, and Revenue Agents	110	130	10	10.5%	50	\$32.88	Bachelor's degree
13-2082	Tax Preparers	260	230	-30	-10.0%	40	\$18.39	Moderate-term on-the-job training
13-2099	Financial Specialists, All Other	30	30	0	3.6%	10	\$26.30	Bachelor's degree

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		2008	2018	Numeric	Percent			
15-1011	Computer and Information Scientists, Research	20	20	0	11.8%	10	N/A	Doctoral degree
15-1021	Computer Programmers	1,190	1,040	-150	-12.7%	220	N/A	Bachelor's degree
15-1031	Computer Software Engineers, Applications	950	1,140	190	20.4%	270	N/A	Bachelor's degree
15-1032	Computer Software Engineers, Systems Software	760	850	100	12.8%	160	N/A	Bachelor's degree
15-1041	Computer Support Specialists	1,870	1,930	60	3.0%	580	N/A	Associate degree
15-1051	Computer Systems Analysts	1,350	1,510	160	12.0%	450	N/A	Bachelor's degree
15-1061	Database Administrators	270	300	30	12.6%	80	N/A	Bachelor's degree
15-1071	Network and Computer Systems Administrators	570	630	50	9.3%	150	N/A	Bachelor's degree
15-1081	Network Systems and Data Communications Analysts	460	650	190	42.1%	280	N/A	Bachelor's degree
15-1099	Computer Specialists, All Other	280	290	0	1.1%	60	N/A	Associate degree
15-2011	Actuaries	20	20	0	6.3%	10	\$47.77	Bachelor's or higher degree, plus work experience
15-2031	Operations Research Analysts	130	150	20	12.1%	50	\$32.33	Master's degree
17-1011	Architects, Except Landscape and Naval	320	320	10	1.6%	60	\$32.74	Bachelor's degree
17-1022	Surveyors	150	150	0	-0.7%	40	\$24.31	Bachelor's degree
17-2011	Aerospace Engineers	190	220	20	11.9%	60	N/A	Bachelor's degree
17-2041	Chemical Engineers	40	40	0	-5.4%	10	\$36.64	Bachelor's degree
17-2051	Civil Engineers	510	570	60	11.1%	140	\$39.92	Bachelor's degree
17-2061	Computer Hardware Engineers	80	80	0	5.3%	30	N/A	Bachelor's degree
17-2071	Electrical Engineers	690	690	10	0.9%	160	\$34.93	Bachelor's degree
17-2072	Electronics Engineers, Except Computer	310	280	-30	-8.4%	70	\$39.33	Bachelor's degree
17-2081	Environmental Engineers	140	170	30	18.3%	60	\$43.04	Bachelor's degree
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspect	130	130	0	2.4%	40	\$34.86	Bachelor's degree
17-2112	Industrial Engineers	600	720	120	19.5%	270	\$34.70	Bachelor's degree
17-2131	Materials Engineers	40	40	0	10.3%	10	N/A	Bachelor's degree
17-2141	Mechanical Engineers	690	720	40	5.1%	210	\$36.72	Bachelor's degree
17-2151	Mining and Geological Engineers, Including Mining Safety Engineers	60	70	10	20.3%	20	\$48.13	Bachelor's degree
17-2171	Petroleum Engineers	670	860	190	27.9%	330	\$66.77	Bachelor's degree
17-2199	Engineers, All Other	420	420	0	0.2%	90	\$34.32	Bachelor's degree
17-3011	Architectural and Civil Drafters	340	320	-20	-4.5%	70	\$23.22	Postsecondary vocational training
17-3012	Electrical and Electronics Drafters	90	90	0	-2.2%	20	\$26.44	Postsecondary vocational training
17-3013	Mechanical Drafters	500	490	-10	-1.4%	110	\$24.50	Postsecondary vocational training
17-3022	Civil Engineering Technicians	210	220	20	7.2%	50	\$22.05	Associate degree
17-3023	Electrical and Electronic Engineering Technicians	350	340	-10	-3.4%	70	\$23.93	Associate degree
17-3024	Electro-Mechanical Technicians	70	70	0	-2.8%	10	\$21.48	Associate degree
17-3025	Environmental Engineering Technicians	50	50	10	15.2%	20	\$20.54	Associate degree
17-3026	Industrial Engineering Technicians	130	150	10	8.2%	40	\$22.09	Associate degree
17-3027	Mechanical Engineering Technicians	140	130	0	-3.0%	30	\$21.27	Associate degree
17-3029	Engineering Technicians, Except Drafters, All Other	230	230	0	-1.3%	40	\$27.70	Associate degree
17-3031	Surveying and Mapping Technicians	160	160	10	3.8%	30	\$20.96	Moderate-term on-the-job training
19-1029	Biological Scientists, All Other	50	60	10	13.0%	20	\$35.21	Doctoral degree
19-1031	Conservation Scientists	20	20	0	4.8%	0	\$34.92	Bachelor's degree
19-1042	Medical Scientists, Except Epidemiologists	20	30	10	33.3%	10	\$45.65	Doctoral degree
19-2021	Atmospheric and Space Scientists	30	30	0	0.0%	10	\$32.20	Bachelor's degree
19-2031	Chemists	60	60	0	-3.3%	20	\$27.22	Bachelor's degree
19-2041	Environmental Scientists and Specialists, Including Health	50	60	10	9.3%	20	\$44.22	Master's degree
19-2042	Geoscientists, Except Hydrologists and Geographers	260	280	20	8.6%	100	\$50.29	Master's degree
19-3011	Economists	20	20	0	6.3%	10	\$35.40	Master's degree
19-3021	Market Research Analysts	630	760	120	19.4%	290	N/A	Bachelor's degree
19-3031	Clinical, Counseling, and School Psychologists	340	370	30	8.8%	130	\$30.16	Doctoral degree
19-3051	Urban and Regional Planners	20	20	0	21.1%	10	\$29.12	Master's degree
19-4021	Biological Technicians	20	20	0	9.1%	10	\$19.24	Bachelor's degree
19-4041	Geological and Petroleum Technicians	200	220	20	9.5%	90	\$23.44	Associate degree
19-4099	Life, Physical, and Social Science Technicians, All Other	30	30	0	7.4%	10	\$28.63	Associate degree
21-1011	Substance Abuse and Behavioral Disorder Counselors	280	340	50	18.7%	110	\$23.05	Bachelor's degree
21-1012	Educational, Vocational, and School Counselors	610	690	70	11.9%	200	\$23.76	Master's degree
21-1014	Mental Health Counselors	440	540	100	22.5%	190	\$19.58	Master's degree
21-1015	Rehabilitation Counselors	470	550	80	17.0%	180	\$13.29	Master's degree

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21-1019	Counselors, All Other	20	30	0	13.6%	10	\$18.46	Master's degree
21-1021	Child, Family, and School Social Workers	660	720	60	9.5%	230	\$16.21	Bachelor's degree
21-1022	Medical and Public Health Social Workers	200	240	40	20.2%	90	\$18.28	Bachelor's degree
21-1023	Mental Health and Substance Abuse Social Workers	180	220	30	18.6%	80	\$16.75	Master's degree
21-1029	Social Workers, All Other	100	110	10	8.0%	30	\$23.38	Bachelor's degree
21-1091	Health Educators	180	210	30	19.2%	70	\$19.21	Bachelor's degree
21-1092	Probation Officers and Correctional Treatment Specialists	110	140	30	25.0%	50	\$16.27	Bachelor's degree
21-1093	Social and Human Service Assistants	480	580	100	21.2%	200	\$12.03	Moderate-term on-the-job training
23-1011	Lawyers	1,970	1,920	-50	-2.5%	370	\$63.93	First professional degree
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	30	30	0	4.0%	10	\$56.44	Bachelor's or higher degree, plus work experience
23-1022	Arbitrators, Mediators, and Conciliators	50	50	0	8.5%	10	\$34.99	Bachelor's or higher degree, plus work experience
23-1023	Judges, Magistrate Judges, and Magistrates	50	40	0	-4.3%	10	\$27.76	Bachelor's or higher degree, plus work experience
23-2011	Paralegals and Legal Assistants	710	800	90	12.1%	170	\$20.78	Associate degree
23-2091	Court Reporters	100	120	20	22.8%	40	\$19.66	Postsecondary vocational training
23-2093	Title Examiners, Abstractors, and Searchers	240	220	-20	-7.1%	40	\$20.34	Moderate-term on-the-job training
25-1000	Postsecondary Teachers	2,180	2,450	260	12.1%	640	N/A	
25-2011	Preschool Teachers, Except Special Education	950	1,120	170	17.6%	360	\$12.94	Postsecondary vocational training
25-2012	Kindergarten Teachers, Except Special Education	530	600	70	12.9%	170	N/A	Bachelor's degree
25-2021	Elementary School Teachers, Except Special Education	3,780	4,280	500	13.3%	1,360	N/A	Bachelor's degree
25-2022	Middle School Teachers, Except Special and Vocational Education	1,740	1,970	230	13.1%	620	N/A	Bachelor's degree
25-2023	Vocational Education Teachers, Middle School	20	20	0	6.7%	0	N/A	Bachelor's or higher degree, plus work experience
25-2031	Secondary School Teachers, Except Special and Vocational Education	2,080	2,220	140	6.7%	750	N/A	Bachelor's degree
25-2032	Vocational Education Teachers, Secondary School	130	140	10	7.6%	50	N/A	Bachelor's or higher degree, plus work experience
25-2041	Special Education Teachers, Preschool, Kindergarten, and Elementary School	460	540	90	18.6%	200	N/A	Bachelor's degree
25-2042	Special Education Teachers, Middle School	220	250	40	16.1%	90	N/A	Bachelor's degree
25-2043	Special Education Teachers, Secondary School	310	340	30	11.0%	110	N/A	Bachelor's degree
25-3011	Adult Literacy, Remedial Education, and GED Teachers and Instructors	130	140	20	11.7%	40	\$21.11	Bachelor's degree
25-3021	Self-Enrichment Education Teachers	630	730	100	15.9%	200	\$24.25	Work experience in a related occupation
25-3099	Teachers and Instructors, All Other	1,610	1,810	200	12.5%	450	N/A	Bachelor's degree
25-4021	Librarians	350	370	20	5.5%	110	\$24.74	Master's degree
25-4031	Library Technicians	300	320	20	6.7%	150	\$13.78	Postsecondary vocational training
25-9031	Instructional Coordinators	280	350	70	23.1%	130	\$26.32	Master's degree
25-9041	Teacher Assistants	2,330	2,520	180	7.8%	680	N/A	Short-term on-the-job training
27-1011	Art Directors	130	130	0	-0.8%	30	\$27.37	Bachelor's or higher degree, plus work experience
27-1014	Multi-Media Artists and Animators	50	60	0	7.5%	20	\$24.39	Bachelor's degree
27-1021	Commercial and Industrial Designers	310	330	20	5.5%	110	\$25.40	Bachelor's degree
27-1023	Floral Designers	230	230	0	-0.9%	70	\$10.67	Short-term on-the-job training
27-1024	Graphic Designers	750	810	60	8.2%	290	\$19.51	Bachelor's degree
27-1025	Interior Designers	160	170	10	8.2%	60	\$25.67	Associate degree
27-1026	Merchandise Displayers and Window Trimmers	100	90	0	-3.1%	30	\$14.11	Moderate-term on-the-job training
27-2012	Producers and Directors	250	240	-10	-4.5%	80	\$22.65	Bachelor's or higher degree, plus work experience
27-2022	Coaches and Scouts	350	410	70	19.7%	130	N/A	Long-term on-the-job training
27-2041	Music Directors and Composers	30	30	0	10.7%	10	\$19.41	Bachelor's or higher degree, plus work experience
27-3011	Radio and Television Announcers	160	130	-30	-17.5%	50	\$15.03	Long-term on-the-job training
27-3022	Reporters and Correspondents	60	50	-10	-18.6%	20	\$26.34	Bachelor's degree
27-3031	Public Relations Specialists	410	490	80	19.2%	180	\$22.62	Bachelor's degree
27-3041	Editors	230	190	-40	-16.3%	60	\$21.35	Bachelor's degree
27-3043	Writers and Authors	560	590	30	6.1%	150	\$20.69	Bachelor's degree
27-3091	Interpreters and Translators	50	50	10	17.4%	20	\$19.86	Long-term on-the-job training
27-4011	Audio and Video Equipment Technicians	170	170	10	3.6%	60	\$15.18	Postsecondary vocational training
27-4012	Broadcast Technicians	110	90	-10	-12.3%	30	\$15.58	Associate degree
27-4014	Sound Engineering Technicians	30	20	0	-8.0%	10	\$16.19	Postsecondary vocational training
27-4021	Photographers	270	280	10	4.5%	70	\$13.90	Long-term on-the-job training
29-1011	Chiropractors	180	210	30	16.1%	60	N/A	First professional degree
29-1021	Dentists, General	270	300	30	11.9%	110	\$79.42	First professional degree
29-1031	Dietitians and Nutritionists	130	140	10	7.7%	50	\$21.35	Bachelor's degree
29-1041	Optometrists	110	130	20	17.1%	60	\$52.19	First professional degree

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29-1051	Pharmacists	610	700	80	13.2%	220	\$50.02	First professional degree
29-1061	Anesthesiologists	60	70	10	20.3%	20	N/A	First professional degree
29-1062	Family and General Practitioners	720	860	140	19.6%	270	\$92.73	First professional degree
29-1063	Internists, General	190	220	40	19.3%	70	\$103.94	First professional degree
29-1066	Psychiatrists	50	50	10	15.6%	20	\$83.44	First professional degree
29-1069	Physicians and Surgeons, All Other	240	280	40	16.0%	80	\$94.64	First professional degree
29-1111	Registered Nurses	6,410	7,650	1,250	19.5%	2,370	\$25.36	Associate degree
29-1122	Occupational Therapists	220	270	50	23.1%	90	\$33.44	Master's degree
29-1123	Physical Therapists	480	610	130	27.4%	190	\$34.17	Master's degree
29-1125	Recreational Therapists	40	40	0	10.3%	20	\$22.36	Bachelor's degree
29-1126	Respiratory Therapists	320	380	60	17.5%	110	\$23.88	Associate degree
29-1127	Speech-Language Pathologists	300	350	50	16.4%	110	\$30.31	Master's degree
29-1131	Veterinarians	130	150	20	16.2%	40	N/A	First professional degree
29-2011	Medical and Clinical Laboratory Technologists	470	510	40	9.1%	130	\$20.50	Bachelor's degree
29-2012	Medical and Clinical Laboratory Technicians	580	660	80	13.3%	190	\$15.37	Associate degree
29-2021	Dental Hygienists	370	490	120	32.9%	190	\$30.89	Associate degree
29-2031	Cardiovascular Technologists and Technicians	120	150	20	19.7%	40	\$22.99	Associate degree
29-2032	Diagnostic Medical Sonographers	150	170	20	15.1%	40	\$25.33	Associate degree
29-2033	Nuclear Medicine Technologists	50	50	10	12.5%	10	\$32.84	Associate degree
29-2034	Radiologic Technologists and Technicians	520	590	70	13.8%	150	N/A	Associate degree
29-2041	Emergency Medical Technicians and Paramedics	350	380	30	8.0%	100	\$16.88	Postsecondary vocational training
29-2051	Dietetic Technicians	80	90	10	13.6%	30	\$12.90	Postsecondary vocational training
29-2052	Pharmacy Technicians	880	1,100	230	25.8%	450	\$11.50	Moderate-term on-the-job training
29-2053	Psychiatric Technicians	90	90	0	0.0%	20	\$12.38	Postsecondary vocational training
29-2054	Respiratory Therapy Technicians	50	50	0	-3.9%	10	\$20.22	Postsecondary vocational training
29-2055	Surgical Technologists	380	470	90	22.5%	180	\$17.60	Postsecondary vocational training
29-2056	Veterinary Technologists and Technicians	140	170	20	16.0%	60	\$12.68	Associate degree
29-2061	Licensed Practical and Licensed Vocational Nurses	2,750	3,260	510	18.6%	1,370	\$16.66	Postsecondary vocational training
29-2071	Medical Records and Health Information Technicians	560	650	90	16.6%	210	\$14.35	Associate degree
29-2081	Opticians, Dispensing	170	190	20	11.3%	50	\$14.31	Long-term on-the-job training
29-9011	Occupational Health and Safety Specialists	220	240	30	12.6%	100	\$26.58	Bachelor's degree
29-9012	Occupational Health and Safety Technicians	70	90	20	25.4%	40	\$21.02	Associate degree
31-1012	Nursing Aides, Orderlies, and Attendants	3,690	4,290	600	16.2%	970	\$10.81	Postsecondary vocational training
31-2011	Occupational Therapist Assistants	80	100	20	25.3%	30	\$16.75	Associate degree
31-2012	Occupational Therapist Aides	50	60	10	29.2%	20	\$14.17	Short-term on-the-job training
31-2021	Physical Therapist Assistants	320	410	90	28.9%	140	\$20.12	Associate degree
31-2022	Physical Therapist Aides	130	170	40	33.6%	60	\$11.63	Short-term on-the-job training
31-9091	Dental Assistants	750	980	240	31.5%	380	\$14.94	Moderate-term on-the-job training
31-9092	Medical Assistants	1,470	1,900	430	29.1%	590	\$14.06	Moderate-term on-the-job training
31-9093	Medical Equipment Preparers	160	170	20	9.7%	30	\$15.05	Short-term on-the-job training
31-9095	Pharmacy Aides	140	130	-10	-9.9%	20	\$9.42	Short-term on-the-job training
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	280	290	10	4.7%	40	\$11.91	Short-term on-the-job training
31-9099	Healthcare Support Workers, All Other	370	430	50	14.2%	100	N/A	Short-term on-the-job training
33-1011	First-Line Supervisors/Managers of Correctional Officers	80	80	10	9.2%	30	N/A	Work experience in a related occupation
33-1099	First-Line Supervisors/Managers, Protective Service Workers, All Other	60	70	10	9.7%	30	\$19.53	Work experience in a related occupation
33-2011	Fire Fighters	540	660	120	22.4%	290	\$14.17	Long-term on-the-job training
33-3012	Correctional Officers and Jailers	640	710	70	10.7%	210	\$12.20	Moderate-term on-the-job training
33-3051	Police and Sheriff's Patrol Officers	1,040	1,160	110	10.8%	380	\$18.32	Long-term on-the-job training
33-9011	Animal Control Workers	60	70	10	12.5%	30	\$12.79	Moderate-term on-the-job training
33-9032	Security Guards	3,170	3,580	410	12.9%	1,060	\$12.72	Short-term on-the-job training
35-1011	Chefs and Head Cooks	260	260	0	-1.2%	30	\$16.76	Work experience in a related occupation
35-1012	First-Line Supervisors/Managers of Food Preparation and Serving Workers	2,060	2,190	120	6.0%	320	\$14.82	Work experience in a related occupation
35-2011	Cooks, Fast Food	3,120	3,360	240	7.7%	1,040	\$8.74	Short-term on-the-job training
35-2012	Cooks, Institution and Cafeteria	1,480	1,540	60	3.7%	430	\$10.45	Moderate-term on-the-job training
35-2014	Cooks, Restaurant	2,610	2,810	200	7.5%	870	\$10.48	Long-term on-the-job training
35-2015	Cooks, Short Order	460	460	-10	-1.5%	120	\$9.72	Short-term on-the-job training
35-2021	Food Preparation Workers	1,280	1,310	30	2.6%	490	\$8.83	Short-term on-the-job training

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35-3011	Bartenders	980	1,040	60	5.9%	410	\$10.33	Short-term on-the-job training
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	6,140	7,000	860	13.9%	2,160	\$8.82	Short-term on-the-job training
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	1,790	1,920	120	6.8%	1,440	\$8.21	Short-term on-the-job training
35-3031	Waiters and Waitresses	7,750	8,250	500	6.5%	4,780	\$8.80	Short-term on-the-job training
35-3041	Food Servers, Nonrestaurant	300	330	20	7.9%	80	\$9.59	Short-term on-the-job training
35-9021	Dishwashers	1,080	1,210	130	11.6%	570	\$8.61	Short-term on-the-job training
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	970	1,030	60	6.4%	740	\$8.59	Short-term on-the-job training
37-1011	First-Line Supervisors/Managers of Housekeeping and Janitorial Workers	570	580	10	2.5%	70	\$13.61	Work experience in a related occupation
37-1012	First-Line Supervisors/Managers of Landscaping, Lawn Service, and Grounds Maintenance Workers	540	610	60	11.8%	120	\$21.97	Work experience in a related occupation
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	5,400	5,650	250	4.6%	1,270	\$10.30	Short-term on-the-job training
37-2012	Maids and Housekeeping Cleaners	2,080	2,020	-60	-3.0%	370	\$9.17	Short-term on-the-job training
37-2021	Pest Control Workers	300	340	40	14.9%	150	\$13.00	Moderate-term on-the-job training
37-3011	Landscaping and Groundskeeping Workers	2,200	2,540	340	15.4%	610	\$11.16	Short-term on-the-job training
39-1021	First-Line Supervisors/Managers of Personal Service Workers	400	450	50	11.6%	160	\$14.44	Work experience in a related occupation
39-3031	Ushers, Lobby Attendants, and Ticket Takers	360	390	30	8.1%	260	\$8.29	Short-term on-the-job training
39-3091	Amusement and Recreation Attendants	490	540	50	9.8%	300	\$9.56	Short-term on-the-job training
39-5012	Hairdressers, Hairstylists, and Cosmetologists	1,530	1,760	230	15.3%	460	\$11.43	Postsecondary vocational training
39-6011	Baggage Porters and Bellhops	70	80	10	8.7%	20	\$8.97	Short-term on-the-job training
39-9011	Child Care Workers	2,310	2,470	160	6.9%	840	\$9.83	Short-term on-the-job training
39-9021	Personal and Home Care Aides	720	1,080	350	48.9%	440	\$9.05	Short-term on-the-job training
39-9031	Fitness Trainers and Aerobics Instructors	790	960	170	21.5%	310	\$17.22	Postsecondary vocational training
39-9032	Recreation Workers	600	680	90	14.6%	200	\$10.82	Short-term on-the-job training
41-1011	First-Line Supervisors/Managers of Retail Sales Workers	5,520	5,600	80	1.5%	1,270	\$16.47	Work experience in a related occupation
41-1012	First-Line Supervisors/Managers of Non-Retail Sales Workers	1,220	1,210	-20	-1.4%	250	\$27.10	Work experience in a related occupation
41-2011	Cashiers	8,970	9,010	50	0.5%	4,070	\$8.91	Short-term on-the-job training
41-2021	Counter and Rental Clerks	1,170	1,210	40	3.7%	360	\$13.58	Short-term on-the-job training
41-2031	Retail Salespersons	13,110	13,670	560	4.3%	4,220	\$11.33	Short-term on-the-job training
41-3021	Insurance Sales Agents	1,380	1,510	130	9.6%	450	\$29.23	Postsecondary vocational training
41-3031	Securities, Commodities, and Financial Services Sales Agents	750	800	50	6.4%	280	\$37.59	Bachelor's degree
41-3099	Sales Representatives, Services, All Other	670	710	40	5.7%	200	\$22.46	Work experience in a related occupation
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	2,080	2,160	80	3.8%	560	\$34.70	Work experience in a related occupation
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	5,120	5,350	220	4.4%	1,410	\$26.68	Work experience in a related occupation
41-9021	Real Estate Brokers	380	400	20	5.6%	80	\$28.15	Work experience in a related occupation
41-9022	Real Estate Sales Agents	1,740	1,940	200	11.7%	490	\$24.85	Postsecondary vocational training
41-9031	Sales Engineers	160	160	0	-1.2%	60	\$68.08	Bachelor's degree
41-9041	Telemarketers	2,470	2,160	-310	-12.6%	620	\$11.34	Short-term on-the-job training
41-9099	Sales and Related Workers, All Other	130	120	0	-0.8%	30	N/A	Moderate-term on-the-job training
43-1011	First-Line Supervisors/Managers of Office and Administrative Support Workers	4,310	4,670	360	8.4%	1,330	\$22.64	Work experience in a related occupation
43-3011	Bill and Account Collectors	2,050	2,410	370	17.9%	750	\$14.10	Short-term on-the-job training
43-3021	Billing and Posting Clerks and Machine Operators	2,250	2,500	250	11.0%	620	\$14.14	Short-term on-the-job training
43-3031	Bookkeeping, Accounting, and Auditing Clerks	8,660	9,270	610	7.1%	1,650	\$15.36	Moderate-term on-the-job training
43-3051	Payroll and Timekeeping Clerks	860	780	-80	-9.5%	200	\$16.26	Moderate-term on-the-job training
43-3071	Tellers	1,870	1,930	60	3.2%	830	\$10.91	Short-term on-the-job training
43-4011	Brokerage Clerks	40	40	0	-4.5%	10	\$15.79	Moderate-term on-the-job training
43-4031	Court, Municipal, and License Clerks	240	270	20	8.6%	90	\$12.27	Short-term on-the-job training
43-4041	Credit Authorizers, Checkers, and Clerks	100	90	-10	-8.7%	30	\$15.63	Short-term on-the-job training
43-4051	Customer Service Representatives	10,540	12,170	1,630	15.5%	4,950	\$15.37	Moderate-term on-the-job training
43-4061	Eligibility Interviewers, Government Programs	50	60	0	5.8%	20	\$19.19	Moderate-term on-the-job training
43-4071	File Clerks	630	460	-170	-26.8%	150	\$11.34	Short-term on-the-job training
43-4081	Hotel, Motel, and Resort Desk Clerks	510	580	70	12.9%	240	\$9.96	Short-term on-the-job training
43-4111	Interviewers, Except Eligibility and Loan	620	710	80	13.5%	230	\$12.25	Short-term on-the-job training
43-4121	Library Assistants, Clerical	260	290	30	10.3%	140	\$10.35	Short-term on-the-job training
43-4131	Loan Interviewers and Clerks	430	430	0	-0.5%	110	\$14.73	Short-term on-the-job training
43-4141	New Accounts Clerks	240	230	-10	-2.1%	70	\$15.05	Work experience in a related occupation
43-4151	Order Clerks	820	590	-240	-28.8%	230	\$13.30	Short-term on-the-job training
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	540	500	-40	-7.7%	150	\$16.91	Short-term on-the-job training
43-4171	Receptionists and Information Clerks	2,440	2,700	260	10.6%	920	\$11.45	Short-term on-the-job training

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43-4199	Information and Record Clerks, All Other	370	310	-60	-16.9%	100	\$19.37	Short-term on-the-job training
43-5011	Cargo and Freight Agents	190	210	20	12.3%	70	\$22.17	Moderate-term on-the-job training
43-5021	Couriers and Messengers	300	290	-10	-3.0%	70	\$11.81	Short-term on-the-job training
43-5031	Police, Fire, and Ambulance Dispatchers	240	290	50	20.9%	100	\$13.05	Moderate-term on-the-job training
43-5032	Dispatchers, Except Police, Fire, and Ambulance	620	610	-10	-1.5%	130	\$15.36	Moderate-term on-the-job training
43-5041	Meter Readers, Utilities	240	210	-30	-11.4%	70	\$14.61	Short-term on-the-job training
43-5051	Postal Service Clerks	150	120	-40	-22.7%	30	\$25.94	Short-term on-the-job training
43-5052	Postal Service Mail Carriers	890	820	-60	-7.0%	280	\$24.74	Short-term on-the-job training
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operato	500	330	-170	-34.4%	50	\$23.37	Short-term on-the-job training
43-5061	Production, Planning, and Expediting Clerks	1,100	1,130	30	2.4%	300	\$19.71	Moderate-term on-the-job training
43-5071	Shipping, Receiving, and Traffic Clerks	2,810	2,650	-160	-5.5%	700	\$14.28	Short-term on-the-job training
43-5081	Stock Clerks and Order Fillers	5,000	5,190	190	3.8%	1,340	\$11.41	Short-term on-the-job training
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	100	90	-10	-10.2%	30	\$10.24	Short-term on-the-job training
43-6011	Executive Secretaries and Administrative Assistants	3,530	3,790	260	7.4%	740	\$18.52	Work experience in a related occupation
43-6012	Legal Secretaries	670	690	20	2.8%	110	\$16.24	Associate degree
43-6013	Medical Secretaries	970	1,200	230	23.5%	360	\$13.52	Moderate-term on-the-job training
43-6014	Secretaries, Except Legal, Medical, and Executive	4,770	4,770	0	0.0%	640	\$13.44	Moderate-term on-the-job training
43-9011	Computer Operators	280	200	-80	-27.7%	30	\$15.36	Moderate-term on-the-job training
43-9021	Data Entry Keyers	820	730	-90	-11.4%	170	\$12.43	Moderate-term on-the-job training
43-9022	Word Processors and Typists	200	170	-30	-12.8%	20	\$13.63	Moderate-term on-the-job training
43-9031	Desktop Publishers	20	20	0	0.0%	0	\$14.46	Postsecondary vocational training
43-9041	Insurance Claims and Policy Processing Clerks	570	590	20	3.5%	100	\$19.36	Moderate-term on-the-job training
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	390	320	-70	-18.4%	70	\$11.70	Short-term on-the-job training
43-9061	Office Clerks, General	6,680	7,280	600	9.0%	1,510	\$11.60	Short-term on-the-job training
43-9071	Office Machine Operators, Except Computer	220	190	-30	-14.3%	70	\$12.44	Short-term on-the-job training
43-9199	Office and Administrative Support Workers, All Other	200	170	-30	-14.9%	50	N/A	Short-term on-the-job training
47-1011	First-Line Supervisors/Managers of Construction Trades and Extraction W	2,400	2,630	230	9.4%	690	\$24.06	Work experience in a related occupation
47-2011	Boilermakers	250	270	30	11.4%	80	\$16.73	Long-term on-the-job training
47-2021	Brickmasons and Blockmasons	180	190	10	3.8%	50	\$15.88	Long-term on-the-job training
47-2022	Stonemasons	70	90	10	17.6%	30	\$16.19	Long-term on-the-job training
47-2031	Carpenters	3,310	3,530	220	6.7%	630	\$15.07	Long-term on-the-job training
47-2041	Carpet Installers	60	60	0	-6.3%	20	\$14.36	Moderate-term on-the-job training
47-2043	Floor Sanders and Finishers	170	170	10	4.8%	50	\$20.77	Moderate-term on-the-job training
47-2044	Tile and Marble Setters	320	350	30	8.8%	110	\$14.61	Long-term on-the-job training
47-2051	Cement Masons and Concrete Finishers	930	980	50	5.0%	280	\$14.97	Moderate-term on-the-job training
47-2061	Construction Laborers	2,780	3,150	380	13.5%	560	\$12.57	Moderate-term on-the-job training
47-2071	Paving, Surfacing, and Tamping Equipment Operators	350	380	30	8.9%	90	\$14.28	Moderate-term on-the-job training
47-2073	Operating Engineers and Other Construction Equipment Operators	660	720	60	8.3%	170	\$16.16	Moderate-term on-the-job training
47-2111	Electricians	2,150	2,300	140	6.5%	660	\$20.97	Long-term on-the-job training
47-2121	Glaziers	120	130	0	0.8%	50	\$14.21	Long-term on-the-job training
47-2131	Insulation Workers, Floor, Ceiling, and Wall	110	110	10	5.7%	40	\$17.40	Moderate-term on-the-job training
47-2141	Painters, Construction and Maintenance	1,660	1,690	30	1.9%	320	\$14.65	Moderate-term on-the-job training
47-2152	Plumbers, Pipefitters, and Steamfitters	1,790	1,940	140	8.0%	510	\$19.78	Long-term on-the-job training
47-2181	Roofers	390	370	-20	-4.1%	60	\$12.63	Moderate-term on-the-job training
47-2211	Sheet Metal Workers	750	790	50	6.0%	220	\$16.93	Long-term on-the-job training
47-3013	Helpers--Electricians	360	400	40	11.8%	120	\$14.45	Short-term on-the-job training
47-3014	Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons	20	10	0	-12.5%	0	N/A	Short-term on-the-job training
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	290	330	40	15.4%	100	\$13.03	Short-term on-the-job training
47-4011	Construction and Building Inspectors	230	250	20	10.5%	70	\$21.69	Work experience in a related occupation
47-4051	Highway Maintenance Workers	380	420	40	11.0%	150	\$13.53	Moderate-term on-the-job training
47-5013	Service Unit Operators, Oil, Gas, and Mining	240	240	0	1.3%	40	\$18.62	Moderate-term on-the-job training
47-5021	Earth Drillers, Except Oil and Gas	40	50	0	4.7%	10	\$17.46	Moderate-term on-the-job training
47-5031	Explosives Workers, Ordnance Handling Experts, and Blasters	30	30	0	14.8%	10	N/A	Moderate-term on-the-job training
47-5071	Roustabouts, Oil and Gas	450	470	20	4.0%	100	\$18.21	Moderate-term on-the-job training
47-5081	Helpers--Extraction Workers	40	40	0	-10.0%	10	\$15.01	Short-term on-the-job training
49-1011	First-Line Supervisors/Managers of Mechanics, Installers, and Repairers	1,440	1,480	40	2.8%	420	\$27.99	Work experience in a related occupation
49-2011	Computer, Automated Teller, and Office Machine Repairers	370	340	-30	-6.8%	60	\$19.16	Postsecondary vocational training

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49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	760	640	-120	-15.7%	130	\$22.57	Postsecondary vocational training
49-2092	Electric Motor, Power Tool, and Related Repairers	40	40	0	2.5%	20	\$24.34	Postsecondary vocational training
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	230	250	10	4.7%	50	\$23.03	Postsecondary vocational training
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	40	60	10	30.2%	20	\$23.65	Postsecondary vocational training
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	70	70	0	-4.4%	10	\$14.12	Postsecondary vocational training
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	260	290	30	11.5%	80	\$17.14	Postsecondary vocational training
49-2098	Security and Fire Alarm Systems Installers	140	170	30	23.6%	60	\$16.59	Postsecondary vocational training
49-3021	Automotive Body and Related Repairers	620	600	-20	-3.2%	160	\$18.04	Long-term on-the-job training
49-3023	Automotive Service Technicians and Mechanics	1,530	1,570	50	2.9%	340	\$15.92	Postsecondary vocational training
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	770	790	20	2.3%	200	\$18.10	Postsecondary vocational training
49-3041	Farm Equipment Mechanics	50	50	0	2.2%	10	N/A	Long-term on-the-job training
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	480	520	30	6.8%	130	\$18.83	Long-term on-the-job training
49-3093	Tire Repairers and Changers	80	80	0	-2.4%	20	\$10.72	Short-term on-the-job training
49-9011	Mechanical Door Repairers	170	180	10	4.8%	30	\$14.54	Moderate-term on-the-job training
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	250	260	10	4.5%	50	\$17.54	Moderate-term on-the-job training
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	1,120	1,370	250	21.9%	430	\$18.03	Postsecondary vocational training
49-9031	Home Appliance Repairers	100	100	0	-1.0%	20	\$16.67	Long-term on-the-job training
49-9041	Industrial Machinery Mechanics	870	1,000	130	14.3%	250	\$21.75	Long-term on-the-job training
49-9042	Maintenance and Repair Workers, General	3,990	4,390	390	9.8%	1,010	N/A	Moderate-term on-the-job training
49-9043	Maintenance Workers, Machinery	210	230	20	11.5%	60	\$18.16	Moderate-term on-the-job training
49-9044	Millwrights	60	60	0	-1.6%	10	\$22.60	Long-term on-the-job training
49-9045	Refractory Materials Repairers, Except Brickmasons	60	60	0	-3.2%	10	\$19.35	Moderate-term on-the-job training
49-9051	Electrical Power-Line Installers and Repairers	260	300	40	16.2%	130	\$22.12	Long-term on-the-job training
49-9052	Telecommunications Line Installers and Repairers	410	380	-30	-6.4%	60	\$23.17	Long-term on-the-job training
49-9061	Camera and Photographic Equipment Repairers	20	20	0	-13.0%	10	N/A	Long-term on-the-job training
49-9062	Medical Equipment Repairers	230	290	60	26.0%	130	\$21.22	Associate degree
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	110	120	10	7.9%	50	\$14.30	Moderate-term on-the-job training
49-9094	Locksmiths and Safe Repairers	90	110	10	11.7%	30	\$18.16	Moderate-term on-the-job training
49-9098	Helpers--Installation, Maintenance, and Repair Workers	370	390	20	5.6%	200	\$11.96	Short-term on-the-job training
49-9099	Installation, Maintenance, and Repair Workers, All Other	580	580	0	-0.2%	90	N/A	Moderate-term on-the-job training
51-1011	First-Line Supervisors/Managers of Production and Operating Workers	2,520	2,560	40	1.5%	380	\$26.38	Work experience in a related occupation
51-2022	Electrical and Electronic Equipment Assemblers	470	430	-40	-8.7%	70	\$13.65	Short-term on-the-job training
51-2023	Electromechanical Equipment Assemblers	160	160	0	1.3%	30	\$16.13	Short-term on-the-job training
51-2031	Engine and Other Machine Assemblers	90	90	0	-1.1%	20	\$15.77	Short-term on-the-job training
51-2041	Structural Metal Fabricators and Fitters	800	860	60	7.3%	230	\$16.00	Moderate-term on-the-job training
51-2092	Team Assemblers	5,870	6,400	530	9.1%	1,850	\$13.36	Moderate-term on-the-job training
51-2099	Assemblers and Fabricators, All Other	190	200	10	7.0%	60	\$13.34	Moderate-term on-the-job training
51-3011	Bakers	440	450	10	1.6%	120	\$10.43	Long-term on-the-job training
51-3021	Butchers and Meat Cutters	290	290	0	0.3%	90	\$12.45	Long-term on-the-job training
51-3092	Food Batchmakers	180	210	30	16.3%	70	\$11.56	Short-term on-the-job training
51-3093	Food Cooking Machine Operators and Tenders	210	240	30	12.9%	90	\$11.92	Short-term on-the-job training
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	440	530	80	18.9%	170	\$16.61	Moderate-term on-the-job training
51-4012	Numerical Tool and Process Control Programmers	170	160	-10	-7.1%	30	\$21.87	Work experience in a related occupation
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	60	70	10	11.5%	20	\$16.01	Moderate-term on-the-job training
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	310	290	-20	-6.8%	60	\$15.99	Moderate-term on-the-job training
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	830	780	-40	-5.1%	160	\$14.93	Moderate-term on-the-job training
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	220	180	-40	-19.4%	20	\$16.06	Moderate-term on-the-job training
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	560	530	-40	-6.9%	80	\$14.26	Moderate-term on-the-job training
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	300	240	-60	-19.2%	50	\$18.62	Moderate-term on-the-job training
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	120	120	-10	-7.3%	20	\$16.71	Moderate-term on-the-job training
51-4041	Machinists	2,780	2,850	70	2.6%	440	\$17.90	Long-term on-the-job training
51-4052	Pourers and Casters, Metal	90	90	0	0.0%	20	\$13.89	Moderate-term on-the-job training
51-4071	Foundry Mold and Coremakers	80	70	-10	-7.6%	20	\$11.17	Moderate-term on-the-job training
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	160	170	10	5.1%	40	\$12.55	Moderate-term on-the-job training
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	270	240	-20	-7.9%	50	\$16.62	Moderate-term on-the-job training
51-4111	Tool and Die Makers	70	80	0	2.7%	10	\$22.54	Long-term on-the-job training
51-4121	Welders, Cutters, Solderers, and Brazers	4,860	5,110	250	5.1%	1,740	\$17.65	Postsecondary vocational training

TULSA 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			
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plas	170	170	0	-1.7%	80	\$14.61	Moderate-term on-the-job training
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and P	130	120	-10	-3.9%	40	\$13.97	Moderate-term on-the-job training
51-4194	Tool Grinders, Filers, and Sharpeners	80	80	0	-1.3%	30	\$16.93	Moderate-term on-the-job training
51-5011	Bindery Workers	200	170	-30	-15.2%	30	N/A	Short-term on-the-job training
51-5022	Prepress Technicians and Workers	190	180	-20	-7.8%	20	N/A	Postsecondary vocational training
51-5023	Printing Machine Operators	420	430	10	2.1%	100	N/A	Moderate-term on-the-job training
51-6011	Laundry and Dry-Cleaning Workers	750	760	20	2.6%	150	\$9.33	Moderate-term on-the-job training
51-6021	Pressers, Textile, Garment, and Related Materials	100	100	0	2.0%	10	\$9.41	Short-term on-the-job training
51-6031	Sewing Machine Operators	270	200	-70	-26.8%	20	\$11.49	Moderate-term on-the-job training
51-6062	Textile Cutting Machine Setters, Operators, and Tenders	40	30	-10	-14.3%	10	\$11.08	Moderate-term on-the-job training
51-7011	Cabinetmakers and Bench Carpenters	350	410	60	16.4%	140	\$12.74	Long-term on-the-job training
51-8021	Stationary Engineers and Boiler Operators	100	110	20	16.3%	30	\$22.81	Long-term on-the-job training
51-8031	Water and Liquid Waste Treatment Plant and System Operators	180	220	40	23.2%	80	\$14.49	Long-term on-the-job training
51-8092	Gas Plant Operators	170	170	0	-0.6%	40	\$26.18	Long-term on-the-job training
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	520	490	-20	-4.6%	120	\$25.93	Long-term on-the-job training
51-9011	Chemical Equipment Operators and Tenders	90	90	-10	-7.4%	10	\$20.73	Moderate-term on-the-job training
51-9022	Grinding and Polishing Workers, Hand	270	310	50	18.0%	90	\$13.25	Moderate-term on-the-job training
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	360	450	90	26.2%	160	\$15.43	Moderate-term on-the-job training
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators	230	290	60	27.3%	110	\$17.22	Moderate-term on-the-job training
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	100	100	0	0.0%	10	\$16.92	Moderate-term on-the-job training
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	2,380	2,430	60	2.4%	450	\$19.55	Moderate-term on-the-job training
51-9081	Dental Laboratory Technicians	110	130	20	21.0%	40	\$15.13	Moderate-term on-the-job training
51-9083	Ophthalmic Laboratory Technicians	160	150	-10	-3.2%	30	\$11.43	Moderate-term on-the-job training
51-9111	Packaging and Filling Machine Operators and Tenders	620	660	50	7.4%	150	\$11.49	Short-term on-the-job training
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	700	780	90	12.5%	270	\$14.04	Moderate-term on-the-job training
51-9122	Painters, Transportation Equipment	280	310	20	7.8%	100	\$18.62	Moderate-term on-the-job training
51-9123	Painting, Coating, and Decorating Workers	110	120	20	15.9%	50	\$12.07	Short-term on-the-job training
51-9131	Photographic Process Workers	70	70	10	7.4%	20	N/A	Short-term on-the-job training
51-9132	Photographic Processing Machine Operators	140	100	-30	-24.6%	30	N/A	Short-term on-the-job training
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	140	150	10	8.6%	80	\$15.44	Moderate-term on-the-job training
51-9198	Helpers--Production Workers	1,910	2,110	200	10.7%	540	\$11.78	Short-term on-the-job training
51-9199	Production Workers, All Other	270	310	40	15.9%	110	N/A	Moderate-term on-the-job training
53-1031	First-Line Supervisors/Managers of Transportation and Material-Moving Ma	1,210	1,110	-100	-8.0%	210	\$25.18	Work experience in a related occupation
53-2012	Commercial Pilots	110	140	30	26.3%	70	N/A	Postsecondary vocational training
53-2021	Air Traffic Controllers	80	90	10	7.3%	30	N/A	Long-term on-the-job training
53-3022	Bus Drivers, School	1,000	950	-50	-4.5%	170	\$12.19	Moderate-term on-the-job training
53-3031	Driver/Sales Workers	1,240	1,300	60	4.7%	280	\$11.80	Short-term on-the-job training
53-3032	Truck Drivers, Heavy and Tractor-Trailer	5,740	6,200	450	7.9%	1,480	\$19.05	Short-term on-the-job training
53-3033	Truck Drivers, Light or Delivery Services	2,690	2,750	60	2.3%	540	\$16.10	Short-term on-the-job training
53-3041	Taxi Drivers and Chauffeurs	240	270	20	9.8%	70	\$9.46	Short-term on-the-job training
53-3099	Motor Vehicle Operators, All Other	50	60	0	3.7%	10	\$10.79	Short-term on-the-job training
53-6021	Parking Lot Attendants	260	280	20	8.0%	120	\$8.30	Short-term on-the-job training
53-6031	Service Station Attendants	30	30	0	-8.8%	10	\$9.75	Short-term on-the-job training
53-6041	Traffic Technicians	40	50	0	7.1%	20	\$26.07	Short-term on-the-job training
53-6051	Transportation Inspectors	20	20	0	5.0%	10	\$20.67	Work experience in a related occupation
53-7011	Conveyor Operators and Tenders	110	100	-10	-9.0%	30	\$13.73	Short-term on-the-job training
53-7021	Crane and Tower Operators	110	100	-10	-8.2%	30	\$19.23	Long-term on-the-job training
53-7032	Excavating and Loading Machine and Dragline Operators	490	510	20	3.7%	160	\$15.82	Moderate-term on-the-job training
53-7051	Industrial Truck and Tractor Operators	1,420	1,500	80	5.4%	500	\$13.42	Short-term on-the-job training
53-7061	Cleaners of Vehicles and Equipment	810	820	10	1.5%	300	\$10.94	Short-term on-the-job training
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	5,900	5,750	-150	-2.5%	1,900	\$11.22	Short-term on-the-job training
53-7063	Machine Feeders and Offbearers	310	250	-60	-17.9%	40	\$13.68	Short-term on-the-job training
53-7064	Packers and Packagers, Hand	1,420	1,340	-80	-5.7%	240	\$9.37	Short-term on-the-job training
53-7071	Gas Compressor and Gas Pumping Station Operators	40	30	-10	-25.0%	10	\$23.15	Moderate-term on-the-job training
53-7072	Pump Operators, Except Wellhead Pumps	230	200	-30	-14.3%	70	\$22.67	Moderate-term on-the-job training
53-7081	Refuse and Recyclable Material Collectors	400	480	80	19.7%	200	\$13.12	Short-term on-the-job training