

TULSA WORKFORCE INVESTMENT AREA OCCUPATIONAL OUTLOOK, 2006-2016

Occupation Code	Occupation Title	Employment		Employment Change, 2006-2016		Total Openings	Mean Hourly Wage	Education and Training
		2006	2016	Numeric	Percent			
00-0000	Total, All Occupations	396,310	436,060	39,750	10.03%	132420	\$18.12	
11-1011	Chief Executives	3,080	3,070	-10	-0.32%	840	\$61.87	Bachelor's or higher degree, plus work experience
11-1021	General and Operations Managers	6,970	6,940	-30	-0.43%	1680	\$43.26	Bachelor's or higher degree, plus work experience
11-1031	Legislators	100	100	0	0.00%	0	N/A	Bachelor's or higher degree, plus work experience
11-2011	Advertising and Promotions Managers	220	210	-10	-4.55%	50	\$26.10	Bachelor's or higher degree, plus work experience
11-2021	Marketing Managers	450	480	30	6.67%	130	\$47.42	Bachelor's or higher degree, plus work experience
11-2022	Sales Managers	1,010	1,070	60	5.94%	290	\$48.85	Bachelor's or higher degree, plus work experience
11-2031	Public Relations Managers	170	200	30	17.65%	60	\$29.76	Bachelor's or higher degree, plus work experience
11-3011	Administrative Services Managers	800	890	90	11.25%	300	\$28.61	Bachelor's or higher degree, plus work experience
11-3021	Computer and Information Systems Managers	680	780	100	14.71%	210	\$46.62	Bachelor's or higher degree, plus work experience
11-3031	Financial Managers	1,660	1,780	120	7.23%	360	\$42.53	Bachelor's or higher degree, plus work experience
11-3041	Compensation and Benefits Managers	250	260	10	4.00%	60	\$33.14	Bachelor's or higher degree, plus work experience
11-3042	Training and Development Managers	120	140	20	16.67%	40	\$32.02	Bachelor's or higher degree, plus work experience
11-3049	Human Resources Managers, All Other	150	160	10	6.67%	40	\$33.05	Bachelor's or higher degree, plus work experience
11-3051	Industrial Production Managers	740	740	0	0.00%	260	\$41.48	Work experience in a related occupation
11-3061	Purchasing Managers	250	250	0	0.00%	70	\$37.66	Bachelor's or higher degree, plus work experience
11-3071	Transportation, Storage, and Distribution Managers	270	270	0	0.00%	80	\$32.20	Work experience in a related occupation
11-9021	Construction Managers	1,460	1,770	310	21.23%	540	\$32.26	Bachelor's degree
11-9031	Education Administrators, Preschool and Child Care Center/Program	180	230	50	27.78%	100	\$17.66	Bachelor's or higher degree, plus work experience
11-9032	Education Administrators, Elementary and Secondary School	500	560	60	12.00%	200	N/A	Bachelor's or higher degree, plus work experience
11-9033	Education Administrators, Postsecondary	200	240	40	20.00%	90	\$28.88	Bachelor's or higher degree, plus work experience
11-9039	Education Administrators, All Other	50	60	10	20.00%	20	\$26.06	Bachelor's or higher degree, plus work experience
11-9041	Engineering Managers	540	570	30	5.56%	140	\$48.66	Bachelor's or higher degree, plus work experience
11-9051	Food Service Managers	1,270	1,370	100	7.87%	400	\$17.06	Work experience in a related occupation
11-9061	Funeral Directors	70	70	0	0.00%	20	N/A	Associate degree
11-9081	Lodging Managers	140	160	20	14.29%	50	\$22.80	Work experience in a related occupation
11-9111	Medical and Health Services Managers	880	1,010	130	14.77%	300	\$29.40	Bachelor's or higher degree, plus work experience
11-9121	Natural Sciences Managers	30	30	0	0.00%	10	\$40.03	Bachelor's or higher degree, plus work experience
11-9131	Postmasters and Mail Superintendents	40	40	0	0.00%	10	\$28.21	Work experience in a related occupation
11-9141	Property, Real Estate, and Community Association Managers	1,220	1,340	120	9.84%	290	\$22.23	Bachelor's degree
11-9151	Social and Community Service Managers	150	180	30	20.00%	60	\$18.79	Bachelor's degree
11-9199	Managers, All Other	520	550	30	5.77%	130	\$37.48	Work experience in a related occupation
13-1021	Purchasing Agents and Buyers, Farm Products	30	30	0	0.00%	0	\$27.42	Long-term on-the-job training
13-1022	Wholesale and Retail Buyers, Except Farm Products	520	500	-20	-3.85%	120	\$23.35	Long-term on-the-job training
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	940	930	-10	-1.06%	200	\$24.02	Long-term on-the-job training
13-1031	Claims Adjusters, Examiners, and Investigators	1,030	1,060	30	2.91%	290	\$22.79	Long-term on-the-job training
13-1032	Insurance Appraisers, Auto Damage	70	70	0	0.00%	20	\$23.87	Postsecondary vocational training
13-1041	Compliance Officers, Except Agriculture, Construction, Health and Safe	490	510	20	4.08%	80	\$22.37	Long-term on-the-job training
13-1051	Cost Estimators	580	700	120	20.69%	240	\$27.04	Bachelor's degree
13-1061	Emergency Management Specialists	30	30	0	0.00%	10	\$31.57	Work experience in a related occupation
13-1071	Employment, Recruitment, and Placement Specialists	390	450	60	15.38%	150	\$19.37	Bachelor's degree
13-1072	Compensation, Benefits, and Job Analysis Specialists	230	270	40	17.39%	80	\$23.77	Bachelor's degree
13-1073	Training and Development Specialists	670	790	120	17.91%	270	\$19.27	Bachelor's or higher degree, plus work experience
13-1079	Human Resources, Training, and Labor Relations Specialists, All Other	150	190	40	26.67%	70	\$23.10	Bachelor's degree
13-1081	Logisticians	210	240	30	14.29%	70	\$28.38	Bachelor's degree
13-1111	Management Analysts	2,000	2,520	520	26.00%	860	\$27.17	Bachelor's or higher degree, plus work experience
13-1121	Meeting and Convention Planners	100	120	20	20.00%	40	\$15.96	Bachelor's degree
13-1199	Business Operations Specialists, All Other	940	1,070	130	13.83%	230	\$28.27	Bachelor's degree
13-2011	Accountants and Auditors	4,860	5,600	740	15.23%	1590	\$25.91	Bachelor's degree
13-2021	Appraisers and Assessors of Real Estate	90	100	10	11.11%	30	\$15.93	Bachelor's degree
13-2031	Budget Analysts	70	70	0	0.00%	20	\$28.05	Bachelor's degree
13-2041	Credit Analysts	170	160	-10	-5.88%	70	\$23.62	Bachelor's degree
13-2051	Financial Analysts	610	760	150	24.59%	180	\$30.53	Bachelor's degree
13-2052	Personal Financial Advisors	520	580	60	11.54%	110	N/A	Bachelor's degree

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13-2053	Insurance Underwriters	720	710	-10	-1.39%	190	\$22.24	Bachelor's degree
13-2061	Financial Examiners	90	100	10	11.11%	20	\$34.90	Bachelor's degree
13-2071	Loan Counselors	150	140	-10	-6.67%	20	\$17.56	Bachelor's degree
13-2072	Loan Officers	930	970	40	4.30%	140	\$24.14	Bachelor's degree
13-2081	Tax Examiners, Collectors, and Revenue Agents	120	120	0	0.00%	30	\$32.23	Bachelor's degree
13-2082	Tax Preparers	270	250	-20	-7.41%	50	\$11.78	Moderate-term on-the-job training
13-2099	Financial Specialists, All Other	40	40	0	0.00%	20	\$26.24	Bachelor's degree
15-1011	Computer and Information Scientists, Research	40	40	0	0.00%	20	\$39.71	Doctoral degree
15-1021	Computer Programmers	1,340	1,260	-80	-5.97%	280	\$27.94	Bachelor's degree
15-1031	Computer Software Engineers, Applications	770	1,130	360	46.75%	470	\$33.40	Bachelor's degree
15-1032	Computer Software Engineers, Systems Software	890	1,070	180	20.22%	300	\$36.42	Bachelor's degree
15-1041	Computer Support Specialists	3,100	3,700	600	19.35%	1560	\$19.08	Associate degree
15-1051	Computer Systems Analysts	1,490	1,960	470	31.54%	860	\$34.35	Bachelor's degree
15-1061	Database Administrators	350	450	100	28.57%	140	\$30.39	Bachelor's degree
15-1071	Network and Computer Systems Administrators	740	910	170	22.97%	340	\$28.54	Bachelor's degree
15-1081	Network Systems and Data Communications Analysts	610	860	250	40.98%	380	\$29.71	Bachelor's degree
15-1099	Computer Specialists, All Other	180	210	30	16.67%	80	\$32.29	Associate degree
15-2031	Operations Research Analysts	110	120	10	9.09%	30	\$32.66	Master's degree
17-1011	Architects, Except Landscape and Naval	470	560	90	19.15%	180	\$33.02	Bachelor's degree
17-1022	Surveyors	150	190	40	26.67%	80	\$19.96	Bachelor's degree
17-2011	Aerospace Engineers	260	280	20	7.69%	70	\$39.33	Bachelor's degree
17-2041	Chemical Engineers	70	70	0	0.00%	20	\$38.26	Bachelor's degree
17-2051	Civil Engineers	540	630	90	16.67%	220	\$35.46	Bachelor's degree
17-2061	Computer Hardware Engineers	80	100	20	25.00%	40	\$37.12	Bachelor's degree
17-2071	Electrical Engineers	380	390	10	2.63%	100	\$33.12	Bachelor's degree
17-2072	Electronics Engineers, Except Computer	340	350	10	2.94%	80	\$33.42	Bachelor's degree
17-2081	Environmental Engineers	130	160	30	23.08%	70	\$37.05	Bachelor's degree
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Insp	90	100	10	11.11%	30	\$30.56	Bachelor's degree
17-2112	Industrial Engineers	530	680	150	28.30%	280	\$32.74	Bachelor's degree
17-2131	Materials Engineers	90	90	0	0.00%	20	\$29.68	Bachelor's degree
17-2141	Mechanical Engineers	770	770	0	0.00%	170	\$35.53	Bachelor's degree
17-2151	Mining and Geological Engineers, Including Mining Safety Engineers	40	50	10	25.00%	10	\$49.51	Bachelor's degree
17-2171	Petroleum Engineers	440	450	10	2.27%	130	\$54.86	Bachelor's degree
17-2199	Engineers, All Other	300	300	0	0.00%	40	\$32.91	Bachelor's degree
17-3011	Architectural and Civil Drafters	440	460	20	4.55%	140	\$22.51	Postsecondary vocational training
17-3012	Electrical and Electronics Drafters	90	100	10	11.11%	30	\$22.26	Postsecondary vocational training
17-3013	Mechanical Drafters	660	710	50	7.58%	240	\$24.09	Postsecondary vocational training
17-3019	Drafters, All Other	50	50	0	0.00%	10	\$20.11	Postsecondary vocational training
17-3022	Civil Engineering Technicians	240	270	30	12.50%	80	\$20.19	Associate degree
17-3023	Electrical and Electronic Engineering Technicians	490	510	20	4.08%	120	\$21.97	Associate degree
17-3024	Electro-Mechanical Technicians	120	130	10	8.33%	30	\$16.87	Associate degree
17-3025	Environmental Engineering Technicians	30	40	10	33.33%	10	\$21.50	Associate degree
17-3026	Industrial Engineering Technicians	520	620	100	19.23%	200	\$37.70	Associate degree
17-3027	Mechanical Engineering Technicians	140	150	10	7.14%	40	\$22.30	Associate degree
17-3029	Engineering Technicians, Except Drafters, All Other	180	170	-10	-5.56%	40	\$27.88	Associate degree
17-3031	Surveying and Mapping Technicians	170	190	20	11.76%	50	\$24.00	Moderate-term on-the-job training
19-1029	Biological Scientists, All Other	40	40	0	0.00%	10	\$33.28	Doctoral degree
19-1031	Conservation Scientists	40	40	0	0.00%	10	\$30.24	Bachelor's degree
19-1042	Medical Scientists, Except Epidemiologists	30	40	10	33.33%	20	\$40.58	Doctoral degree
19-2031	Chemists	50	50	0	0.00%	20	\$31.58	Bachelor's degree
19-2041	Environmental Scientists and Specialists, Including Health	120	160	40	33.33%	70	\$25.71	Master's degree
19-2042	Geoscientists, Except Hydrologists and Geographers	310	340	30	9.68%	110	\$35.60	Master's degree
19-3011	Economists	20	20	0	0.00%	10	\$31.80	Master's degree
19-3021	Market Research Analysts	660	760	100	15.15%	140	\$26.20	Bachelor's degree

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19-3022	Survey Researchers	50	60	10	20.00%	10	\$17.14	Bachelor's degree
19-3031	Clinical, Counseling, and School Psychologists	310	370	60	19.35%	100	\$23.40	Doctoral degree
19-3051	Urban and Regional Planners	70	80	10	14.29%	30	\$22.55	Master's degree
19-4021	Biological Technicians	40	40	0	0.00%	20	\$16.38	Bachelor's degree
19-4031	Chemical Technicians	160	170	10	6.25%	70	\$17.52	Associate degree
19-4041	Geological and Petroleum Technicians	200	230	30	15.00%	110	\$20.67	Associate degree
19-4091	Environmental Science and Protection Technicians, Including Health	40	40	0	0.00%	20	\$20.14	Associate degree
19-4099	Life, Physical, and Social Science Technicians, All Other	30	30	0	0.00%	10	\$22.99	Associate degree
21-1011	Substance Abuse and Behavioral Disorder Counselors	230	310	80	34.78%	130	\$20.40	Bachelor's degree
21-1012	Educational, Vocational, and School Counselors	620	730	110	17.74%	240	\$21.38	Master's degree
21-1013	Marriage and Family Therapists	40	60	20	50.00%	30	\$17.42	Master's degree
21-1014	Mental Health Counselors	180	230	50	27.78%	90	\$17.97	Master's degree
21-1015	Rehabilitation Counselors	330	410	80	24.24%	150	\$11.84	Master's degree
21-1021	Child, Family, and School Social Workers	490	620	130	26.53%	230	\$14.09	Bachelor's degree
21-1022	Medical and Public Health Social Workers	280	350	70	25.00%	130	\$19.29	Bachelor's degree
21-1023	Mental Health and Substance Abuse Social Workers	110	140	30	27.27%	50	\$18.83	Master's degree
21-1029	Social Workers, All Other	70	70	0	0.00%	20	\$21.40	Bachelor's degree
21-1091	Health Educators	160	210	50	31.25%	70	\$20.15	Bachelor's degree
21-1092	Probation Officers and Correctional Treatment Specialists	170	230	60	35.29%	80	\$12.11	Bachelor's degree
21-1093	Social and Human Service Assistants	340	450	110	32.35%	150	\$13.99	Moderate-term on-the-job training
21-1099	Community and Social Service Specialists, All Other	120	150	30	25.00%	50	\$18.14	Bachelor's degree
21-2011	Clergy	90	110	20	22.22%	30	\$18.29	Master's degree
23-1011	Lawyers	1,560	1,690	130	8.33%	430	\$54.10	First professional degree
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	20	20	0	0.00%	0	\$46.20	Bachelor's or higher degree, plus work experience
23-1022	Arbitrators, Mediators, and Conciliators	20	20	0	0.00%	10	\$22.51	Bachelor's or higher degree, plus work experience
23-1023	Judges, Magistrate Judges, and Magistrates	50	60	10	20.00%	10	\$31.58	Bachelor's or higher degree, plus work experience
23-2011	Paralegals and Legal Assistants	530	640	110	20.75%	180	\$19.88	Associate degree
23-2091	Court Reporters	40	50	10	25.00%	10	\$24.57	Postsecondary vocational training
23-2092	Law Clerks	60	60	0	0.00%	10	\$9.39	Bachelor's degree
23-2093	Title Examiners, Abstractors, and Searchers	290	280	-10	-3.45%	50	\$19.62	Moderate-term on-the-job training
25-1011	Business Teachers, Postsecondary	170	210	40	23.53%	80	N/A	Master's degree
25-1021	Computer Science Teachers, Postsecondary	140	180	40	28.57%	60	N/A	Master's degree
25-1022	Mathematical Science Teachers, Postsecondary	130	160	30	23.08%	60	N/A	Master's degree
25-1042	Biological Science Teachers, Postsecondary	50	60	10	20.00%	20	N/A	Doctoral degree
25-1052	Chemistry Teachers, Postsecondary	40	50	10	25.00%	20	N/A	Doctoral degree
25-1054	Physics Teachers, Postsecondary	90	120	30	33.33%	40	N/A	Doctoral degree
25-1063	Economics Teachers, Postsecondary	30	40	10	33.33%	10	N/A	Doctoral degree
25-1065	Political Science Teachers, Postsecondary	30	40	10	33.33%	20	N/A	Doctoral degree
25-1066	Psychology Teachers, Postsecondary	70	100	30	42.86%	30	N/A	Doctoral degree
25-1071	Health Specialties Teachers, Postsecondary	200	260	60	30.00%	90	N/A	Master's degree
25-1072	Nursing Instructors and Teachers, Postsecondary	60	70	10	16.67%	30	N/A	Doctoral degree
25-1081	Education Teachers, Postsecondary	90	120	30	33.33%	40	N/A	Doctoral degree
25-1121	Art, Drama, and Music Teachers, Postsecondary	190	250	60	31.58%	90	N/A	Master's degree
25-1122	Communications Teachers, Postsecondary	50	70	20	40.00%	20	N/A	Doctoral degree
25-1123	English Language and Literature Teachers, Postsecondary	160	210	50	31.25%	70	N/A	Master's degree
25-1124	Foreign Language and Literature Teachers, Postsecondary	110	150	40	36.36%	60	N/A	Master's degree
25-1125	History Teachers, Postsecondary	50	60	10	20.00%	20	N/A	Doctoral degree
25-1126	Philosophy and Religion Teachers, Postsecondary	60	80	20	33.33%	30	N/A	Doctoral degree
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	20	20	0	0.00%	10	N/A	Master's degree
25-1194	Vocational Education Teachers, Postsecondary	550	700	150	27.27%	240	\$21.68	Bachelor's or higher degree, plus work experience
25-2011	Preschool Teachers, Except Special Education	1,010	1,280	270	26.73%	440	\$10.55	Postsecondary vocational training
25-2012	Kindergarten Teachers, Except Special Education	550	670	120	21.82%	210	N/A	Bachelor's degree
25-2021	Elementary School Teachers, Except Special Education	3,550	4,240	690	19.44%	1470	N/A	Bachelor's degree
25-2022	Middle School Teachers, Except Special and Vocational Education	1,480	1,730	250	16.89%	580	N/A	Bachelor's degree

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25-2023	Vocational Education Teachers, Middle School	20	20	0	0.00%	0	N/A	Bachelor's or higher degree, plus work experience
25-2031	Secondary School Teachers, Except Special and Vocational Education	2,110	2,350	240	11.37%	870	N/A	Bachelor's degree
25-2032	Vocational Education Teachers, Secondary School	130	130	0	0.00%	40	N/A	Bachelor's or higher degree, plus work experience
25-2041	Special Education Teachers, Preschool, Kindergarten, and Elementary	420	530	110	26.19%	200	N/A	Bachelor's degree
25-2042	Special Education Teachers, Middle School	220	270	50	22.73%	100	N/A	Bachelor's degree
25-2043	Special Education Teachers, Secondary School	290	330	40	13.79%	100	N/A	Bachelor's degree
25-3011	Adult Literacy, Remedial Education, and GED Teachers and Instructors	90	110	20	22.22%	20	\$17.90	Bachelor's degree
25-3021	Self-Enrichment Education Teachers	470	600	130	27.66%	180	\$21.02	Work experience in a related occupation
25-3099	Teachers and Instructors, All Other	1,760	2,040	280	15.91%	460	N/A	Bachelor's degree
25-4021	Librarians	340	370	30	8.82%	120	\$21.21	Master's degree
25-4031	Library Technicians	280	310	30	10.71%	170	\$12.55	Postsecondary vocational training
25-9011	Audio-Visual Collections Specialists	30	30	0	0.00%	0	\$15.89	Bachelor's degree
25-9031	Instructional Coordinators	210	270	60	28.57%	90	\$22.81	Master's degree
25-9041	Teacher Assistants	2,360	2,690	330	13.98%	720	N/A	Short-term on-the-job training
27-1011	Art Directors	60	60	0	0.00%	20	\$21.88	Bachelor's or higher degree, plus work experience
27-1014	Multi-Media Artists and Animators	70	90	20	28.57%	40	\$19.84	Bachelor's degree
27-1021	Commercial and Industrial Designers	110	110	0	0.00%	30	\$21.36	Bachelor's degree
27-1023	Floral Designers	220	200	-20	-9.09%	60	\$10.14	Moderate-term on-the-job training
27-1024	Graphic Designers	920	1,030	110	11.96%	350	\$19.03	Bachelor's degree
27-1025	Interior Designers	100	130	30	30.00%	50	N/A	Associate degree
27-1026	Merchandise Displayers and Window Trimmers	280	300	20	7.14%	100	\$12.52	Moderate-term on-the-job training
27-2012	Producers and Directors	180	200	20	11.11%	70	\$23.89	Bachelor's or higher degree, plus work experience
27-2021	Athletes and Sports Competitors	30	30	0	0.00%	10	N/A	Long-term on-the-job training
27-2022	Coaches and Scouts	480	560	80	16.67%	200	N/A	Long-term on-the-job training
27-3011	Radio and Television Announcers	180	160	-20	-11.11%	60	\$13.21	Long-term on-the-job training
27-3031	Public Relations Specialists	460	550	90	19.57%	120	\$24.20	Bachelor's degree
27-3042	Technical Writers	120	150	30	25.00%	70	\$21.38	Bachelor's degree
27-3043	Writers and Authors	820	930	110	13.41%	260	\$20.98	Bachelor's degree
27-3091	Interpreters and Translators	40	50	10	25.00%	20	\$16.10	Long-term on-the-job training
27-4011	Audio and Video Equipment Technicians	20	20	0	0.00%	10	\$13.71	Long-term on-the-job training
27-4012	Broadcast Technicians	150	170	20	13.33%	70	\$14.26	Associate degree
27-4021	Photographers	280	310	30	10.71%	90	\$13.63	Long-term on-the-job training
27-4031	Camera Operators, Television, Video, and Motion Picture	70	70	0	0.00%	20	\$16.43	Postsecondary vocational training
27-4032	Film and Video Editors	40	50	10	25.00%	10	\$14.21	Bachelor's degree
29-1011	Chiropractors	360	400	40	11.11%	80	N/A	First professional degree
29-1021	Dentists, General	390	420	30	7.69%	100	\$74.63	First professional degree
29-1031	Dietitians and Nutritionists	200	210	10	5.00%	70	\$26.44	Bachelor's degree
29-1041	Optometrists	70	80	10	14.29%	20	\$40.99	First professional degree
29-1051	Pharmacists	830	1,000	170	20.48%	320	\$47.64	First professional degree
29-1061	Anesthesiologists	270	320	50	18.52%	100	\$88.33	First professional degree
29-1062	Family and General Practitioners	670	740	70	10.45%	190	\$90.27	First professional degree
29-1063	Internists, General	220	240	20	9.09%	60	\$88.81	First professional degree
29-1064	Obstetricians and Gynecologists	70	80	10	14.29%	30	\$94.64	First professional degree
29-1065	Pediatricians, General	70	80	10	14.29%	20	\$91.97	First professional degree
29-1066	Psychiatrists	30	30	0	0.00%	10	\$88.46	First professional degree
29-1067	Surgeons	160	170	10	6.25%	40	\$92.05	First professional degree
29-1069	Physicians and Surgeons, All Other	320	360	40	12.50%	100	\$69.10	First professional degree
29-1071	Physician Assistants	240	300	60	25.00%	90	\$31.68	Master's degree
29-1111	Registered Nurses	5,720	6,950	1,230	21.50%	2180	\$24.81	Associate degree
29-1121	Audiologists	30	30	0	0.00%	0	\$23.84	First professional degree
29-1122	Occupational Therapists	150	180	30	20.00%	50	\$30.22	Master's degree
29-1123	Physical Therapists	550	680	130	23.64%	200	\$30.04	Master's degree
29-1124	Radiation Therapists	80	90	10	12.50%	30	\$30.58	Associate degree
29-1125	Recreational Therapists	50	50	0	0.00%	10	\$18.77	Bachelor's degree

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Occupation Code	Occupation Title	Employment		Employment Change, 2006-2016		Total Openings	Mean Hourly Wage	Education and Training
		2006	2016	Numeric	Percent			
29-1126	Respiratory Therapists	310	380	70	22.58%	110	\$23.64	Associate degree
29-1127	Speech-Language Pathologists	220	240	20	9.09%	70	\$22.73	Master's degree
29-1131	Veterinarians	150	210	60	40.00%	80	\$35.47	First professional degree
29-2011	Medical and Clinical Laboratory Technologists	350	390	40	11.43%	90	\$20.42	Bachelor's degree
29-2012	Medical and Clinical Laboratory Technicians	330	370	40	12.12%	90	\$13.17	Associate degree
29-2021	Dental Hygienists	460	590	130	28.26%	210	\$30.84	Associate degree
29-2031	Cardiovascular Technologists and Technicians	160	200	40	25.00%	60	\$21.29	Associate degree
29-2032	Diagnostic Medical Sonographers	110	120	10	9.09%	30	\$26.32	Associate degree
29-2033	Nuclear Medicine Technologists	90	100	10	11.11%	20	\$29.76	Associate degree
29-2034	Radiologic Technologists and Technicians	580	660	80	13.79%	150	\$21.93	Associate degree
29-2041	Emergency Medical Technicians and Paramedics	390	460	70	17.95%	120	\$14.42	Postsecondary vocational training
29-2051	Dietetic Technicians	30	40	10	33.33%	10	\$11.39	Postsecondary vocational training
29-2052	Pharmacy Technicians	960	1,260	300	31.25%	590	\$12.23	Moderate-term on-the-job training
29-2053	Psychiatric Technicians	180	170	-10	-5.56%	60	\$11.51	Postsecondary vocational training
29-2054	Respiratory Therapy Technicians	90	90	0	0.00%	30	\$18.52	Associate degree
29-2055	Surgical Technologists	410	500	90	21.95%	220	\$16.80	Postsecondary vocational training
29-2056	Veterinary Technologists and Technicians	90	130	40	44.44%	70	\$12.58	Associate degree
29-2061	Licensed Practical and Licensed Vocational Nurses	2,510	2,860	350	13.94%	1030	\$16.26	Postsecondary vocational training
29-2071	Medical Records and Health Information Technicians	640	740	100	15.63%	270	\$14.01	Associate degree
29-2081	Opticians, Dispensing	200	220	20	10.00%	80	\$15.28	Long-term on-the-job training
29-9011	Occupational Health and Safety Specialists	110	110	0	0.00%	30	\$23.37	Bachelor's degree
29-9012	Occupational Health and Safety Technicians	20	20	0	0.00%	10	\$21.58	Bachelor's degree
29-9091	Athletic Trainers	30	40	10	33.33%	10	N/A	Bachelor's degree
31-1011	Home Health Aides	2,860	4,130	1,270	44.41%	1520	\$8.95	Short-term on-the-job training
31-1012	Nursing Aides, Orderlies, and Attendants	4,720	5,520	800	16.95%	1220	\$10.50	Postsecondary vocational training
31-1013	Psychiatric Aides	140	130	-10	-7.14%	10	\$10.50	Short-term on-the-job training
31-2011	Occupational Therapist Assistants	80	90	10	12.50%	30	\$19.19	Associate degree
31-2012	Occupational Therapist Aides	30	30	0	0.00%	10	\$14.77	Short-term on-the-job training
31-2021	Physical Therapist Assistants	230	300	70	30.43%	100	\$15.90	Associate degree
31-2022	Physical Therapist Aides	210	250	40	19.05%	70	\$11.95	Short-term on-the-job training
31-9011	Massage Therapists	380	450	70	18.42%	110	\$14.81	Postsecondary vocational training
31-9091	Dental Assistants	800	1,010	210	26.25%	350	\$13.76	Moderate-term on-the-job training
31-9092	Medical Assistants	1,710	2,240	530	30.99%	750	\$13.38	Moderate-term on-the-job training
31-9093	Medical Equipment Preparers	150	170	20	13.33%	30	\$14.69	Short-term on-the-job training
31-9094	Medical Transcriptionists	380	450	70	18.42%	110	\$14.87	Postsecondary vocational training
31-9095	Pharmacy Aides	260	230	-30	-11.54%	30	\$8.81	Short-term on-the-job training
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	350	410	60	17.14%	100	\$9.55	Short-term on-the-job training
31-9099	Healthcare Support Workers, All Other	470	530	60	12.77%	120	\$13.63	Short-term on-the-job training
33-1011	First-Line Supervisors/Managers of Correctional Officers	60	70	10	16.67%	30	\$12.69	Work experience in a related occupation
33-1012	First-Line Supervisors/Managers of Police and Detectives	200	230	30	15.00%	90	\$31.40	Work experience in a related occupation
33-1021	First-Line Supervisors/Managers of Fire Fighting and Prevention Workers	190	210	20	10.53%	80	N/A	Work experience in a related occupation
33-1099	First-Line Supervisors/Managers, Protective Service Workers, All Other	30	40	10	33.33%	10	\$17.59	Work experience in a related occupation
33-2011	Fire Fighters	880	1,000	120	13.64%	440	\$19.79	Long-term on-the-job training
33-2021	Fire Inspectors and Investigators	40	50	10	25.00%	10	\$35.92	Work experience in a related occupation
33-3011	Bailiffs	30	30	0	0.00%	10	\$12.53	Moderate-term on-the-job training
33-3012	Correctional Officers and Jailers	280	350	70	25.00%	130	\$10.45	Moderate-term on-the-job training
33-3021	Detectives and Criminal Investigators	190	220	30	15.79%	70	\$26.52	Work experience in a related occupation
33-3051	Police and Sheriff's Patrol Officers	1,750	1,970	220	12.57%	690	\$21.31	Long-term on-the-job training
33-9011	Animal Control Workers	40	50	10	25.00%	10	\$13.73	Moderate-term on-the-job training
33-9021	Private Detectives and Investigators	180	190	10	5.56%	50	N/A	Work experience in a related occupation
33-9032	Security Guards	2,940	3,530	590	20.07%	1190	\$11.46	Short-term on-the-job training
33-9091	Crossing Guards	130	140	10	7.69%	40	\$8.05	Short-term on-the-job training
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	150	180	30	20.00%	140	\$8.26	Short-term on-the-job training
35-1011	Chefs and Head Cooks	250	260	10	4.00%	50	\$15.04	Work experience in a related occupation

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Occupation Code	Occupation Title	Employment		Employment Change, 2006-2016		Total Openings	Mean Hourly Wage	Education and Training
		2006	2016	Numeric	Percent			
35-1012	First-Line Supervisors/Managers of Food Preparation and Serving Work	2,150	2,430	280	13.02%	450	\$13.55	Work experience in a related occupation
35-2011	Cooks, Fast Food	3,320	3,610	290	8.73%	1190	\$7.69	Short-term on-the-job training
35-2012	Cooks, Institution and Cafeteria	1,440	1,550	110	7.64%	500	\$9.13	Moderate-term on-the-job training
35-2014	Cooks, Restaurant	2,240	2,510	270	12.05%	870	\$9.37	Long-term on-the-job training
35-2015	Cooks, Short Order	530	560	30	5.66%	170	\$8.26	Short-term on-the-job training
35-2021	Food Preparation Workers	1,880	2,180	300	15.96%	950	\$7.84	Short-term on-the-job training
35-3011	Bartenders	870	960	90	10.34%	400	\$9.73	Short-term on-the-job training
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	6,380	7,540	1,160	18.18%	2370	\$7.37	Short-term on-the-job training
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	820	920	100	12.20%	670	\$7.27	Short-term on-the-job training
35-3031	Waiters and Waitresses	7,210	8,070	860	11.93%	4780	\$8.39	Short-term on-the-job training
35-3041	Food Servers, Nonrestaurant	460	520	60	13.04%	130	\$8.59	Short-term on-the-job training
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	860	970	110	12.79%	460	\$8.46	Short-term on-the-job training
35-9021	Dishwashers	1,300	1,440	140	10.77%	670	\$7.53	Short-term on-the-job training
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	1,050	1,160	110	10.48%	830	\$7.84	Short-term on-the-job training
37-1011	First-Line Supervisors/Managers of Housekeeping and Janitorial Work	520	590	70	13.46%	150	\$13.60	Work experience in a related occupation
37-1012	First-Line Supervisors/Managers of Landscaping, Lawn Service, and Groundskeeping Workers	730	860	130	17.81%	180	\$19.05	Work experience in a related occupation
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	4,500	5,250	750	16.67%	1610	\$9.48	Short-term on-the-job training
37-2012	Maids and Housekeeping Cleaners	2,440	2,820	380	15.57%	840	\$8.55	Short-term on-the-job training
37-2021	Pest Control Workers	210	250	40	19.05%	90	\$15.56	Moderate-term on-the-job training
37-3011	Landscaping and Groundskeeping Workers	1,900	2,240	340	17.89%	590	\$11.01	Short-term on-the-job training
37-3012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	100	120	20	20.00%	30	\$13.20	Moderate-term on-the-job training
37-3013	Tree Trimmers and Pruners	300	340	40	13.33%	90	\$10.71	Short-term on-the-job training
39-1012	Slot Key Persons	70	80	10	14.29%	20	\$12.00	Postsecondary vocational training
39-1021	First-Line Supervisors/Managers of Personal Service Workers	490	580	90	18.37%	200	\$11.47	Work experience in a related occupation
39-2021	Nonfarm Animal Caretakers	240	290	50	20.83%	90	\$11.31	Short-term on-the-job training
39-3021	Motion Picture Projectionists	20	20	0	0.00%	10	\$12.39	Short-term on-the-job training
39-3031	Ushers, Lobby Attendants, and Ticket Takers	130	150	20	15.38%	110	\$7.56	Short-term on-the-job training
39-3091	Amusement and Recreation Attendants	560	640	80	14.29%	350	\$9.20	Short-term on-the-job training
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	30	30	0	0.00%	20	\$9.22	Short-term on-the-job training
39-4021	Funeral Attendants	90	100	10	11.11%	40	\$11.28	Short-term on-the-job training
39-5012	Hairdressers, Hairstylists, and Cosmetologists	1,420	1,590	170	11.97%	340	\$9.84	Postsecondary vocational training
39-5094	Skin Care Specialists	100	120	20	20.00%	30	\$15.03	Postsecondary vocational training
39-6011	Baggage Porters and Bellhops	60	60	0	0.00%	10	\$10.14	Short-term on-the-job training
39-9011	Child Care Workers	2,290	2,850	560	24.45%	1220	\$9.16	Short-term on-the-job training
39-9021	Personal and Home Care Aides	1,990	2,770	780	39.20%	1120	\$8.34	Short-term on-the-job training
39-9031	Fitness Trainers and Aerobics Instructors	680	810	130	19.12%	250	\$14.29	Postsecondary vocational training
39-9032	Recreation Workers	280	320	40	14.29%	90	\$10.57	Short-term on-the-job training
39-9041	Residential Advisors	70	80	10	14.29%	30	\$15.89	Short-term on-the-job training
41-1011	First-Line Supervisors/Managers of Retail Sales Workers	4,830	5,010	180	3.73%	1190	\$16.86	Work experience in a related occupation
41-1012	First-Line Supervisors/Managers of Non-Retail Sales Workers	1,150	1,160	10	0.87%	170	\$27.18	Work experience in a related occupation
41-2011	Cashiers	9,040	8,650	-390	-4.31%	4300	\$8.06	Short-term on-the-job training
41-2021	Counter and Rental Clerks	1,590	1,850	260	16.35%	870	\$13.29	Short-term on-the-job training
41-2022	Parts Salespersons	560	540	-20	-3.57%	60	\$12.69	Moderate-term on-the-job training
41-2031	Retail Salespersons	12,290	13,660	1,370	11.15%	5150	\$12.15	Short-term on-the-job training
41-3011	Advertising Sales Agents	580	690	110	18.97%	210	\$21.06	Moderate-term on-the-job training
41-3021	Insurance Sales Agents	1,560	1,630	70	4.49%	410	\$28.54	Bachelor's degree
41-3031	Securities, Commodities, and Financial Services Sales Agents	610	680	70	11.48%	230	\$32.77	Bachelor's degree
41-3041	Travel Agents	110	110	0	0.00%	10	\$15.98	Postsecondary vocational training
41-3099	Sales Representatives, Services, All Other	870	1,130	260	29.89%	470	\$20.92	Work experience in a related occupation
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Sales Support	1,590	1,740	150	9.43%	500	\$31.44	Work experience in a related occupation
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Sales Support	4,490	4,730	240	5.35%	1230	\$26.05	Work experience in a related occupation
41-9011	Demonstrators and Product Promoters	220	270	50	22.73%	110	\$11.10	Moderate-term on-the-job training
41-9021	Real Estate Brokers	500	520	20	4.00%	100	\$35.52	Work experience in a related occupation
41-9022	Real Estate Sales Agents	1,650	1,740	90	5.45%	350	\$25.19	Postsecondary vocational training

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41-9031	Sales Engineers	200	200	0	0.00%	60	N/A	Bachelor's degree
41-9041	Telemarketers	1,210	1,110	-100	-8.26%	430	\$10.40	Short-term on-the-job training
41-9099	Sales and Related Workers, All Other	100	120	20	20.00%	20	\$18.75	Moderate-term on-the-job training
43-1011	First-Line Supervisors/Managers of Office and Administrative Support V	4,010	4,170	160	3.99%	990	\$20.82	Work experience in a related occupation
43-2011	Switchboard Operators, Including Answering Service	610	550	-60	-9.84%	130	\$10.63	Short-term on-the-job training
43-2021	Telephone Operators	50	30	-20	-40.00%	10	\$19.22	Short-term on-the-job training
43-3011	Bill and Account Collectors	2,380	3,080	700	29.41%	1060	\$13.79	Short-term on-the-job training
43-3021	Billing and Posting Clerks and Machine Operators	2,250	2,300	50	2.22%	340	\$13.72	Moderate-term on-the-job training
43-3031	Bookkeeping, Accounting, and Auditing Clerks	6,850	7,580	730	10.66%	1800	\$14.37	Moderate-term on-the-job training
43-3051	Payroll and Timekeeping Clerks	720	720	0	0.00%	190	\$14.17	Moderate-term on-the-job training
43-3061	Procurement Clerks	270	250	-20	-7.41%	50	\$14.84	Moderate-term on-the-job training
43-3071	Tellers	1,780	1,870	90	5.06%	870	\$10.75	Short-term on-the-job training
43-4011	Brokerage Clerks	100	100	0	0.00%	40	\$27.75	Moderate-term on-the-job training
43-4021	Correspondence Clerks	50	60	10	20.00%	20	\$12.36	Short-term on-the-job training
43-4031	Court, Municipal, and License Clerks	210	270	60	28.57%	100	\$12.13	Short-term on-the-job training
43-4041	Credit Authorizers, Checkers, and Clerks	120	100	-20	-16.67%	40	\$16.56	Short-term on-the-job training
43-4051	Customer Service Representatives	8,730	10,870	2,140	24.51%	4570	\$14.90	Moderate-term on-the-job training
43-4061	Eligibility Interviewers, Government Programs	50	60	10	20.00%	10	\$18.19	Moderate-term on-the-job training
43-4071	File Clerks	760	450	-310	-40.79%	200	\$10.69	Short-term on-the-job training
43-4081	Hotel, Motel, and Resort Desk Clerks	460	540	80	17.39%	270	\$9.00	Short-term on-the-job training
43-4111	Interviewers, Except Eligibility and Loan	500	560	60	12.00%	190	\$11.50	Short-term on-the-job training
43-4121	Library Assistants, Clerical	240	270	30	12.50%	100	\$8.50	Short-term on-the-job training
43-4131	Loan Interviewers and Clerks	470	430	-40	-8.51%	80	\$15.83	Short-term on-the-job training
43-4141	New Accounts Clerks	270	210	-60	-22.22%	80	\$14.80	Work experience in a related occupation
43-4151	Order Clerks	800	560	-240	-30.00%	170	\$12.35	Short-term on-the-job training
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	360	390	30	8.33%	60	\$15.86	Short-term on-the-job training
43-4171	Receptionists and Information Clerks	2,600	2,990	390	15.00%	1020	\$11.28	Short-term on-the-job training
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	920	870	-50	-5.43%	200	\$15.25	Short-term on-the-job training
43-4199	Information and Record Clerks, All Other	330	290	-40	-12.12%	50	\$16.17	Short-term on-the-job training
43-5011	Cargo and Freight Agents	140	150	10	7.14%	40	\$19.79	Moderate-term on-the-job training
43-5021	Couriers and Messengers	310	290	-20	-6.45%	80	\$11.58	Short-term on-the-job training
43-5031	Police, Fire, and Ambulance Dispatchers	260	310	50	19.23%	110	\$13.50	Moderate-term on-the-job training
43-5032	Dispatchers, Except Police, Fire, and Ambulance	620	620	0	0.00%	160	\$16.18	Moderate-term on-the-job training
43-5041	Meter Readers, Utilities	130	120	-10	-7.69%	40	\$12.83	Short-term on-the-job training
43-5051	Postal Service Clerks	170	170	0	0.00%	40	\$26.75	Short-term on-the-job training
43-5052	Postal Service Mail Carriers	940	920	-20	-2.13%	280	\$23.78	Short-term on-the-job training
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Oper	600	530	-70	-11.67%	60	\$23.48	Short-term on-the-job training
43-5061	Production, Planning, and Expediting Clerks	1,270	1,340	70	5.51%	410	\$17.53	Moderate-term on-the-job training
43-5071	Shipping, Receiving, and Traffic Clerks	2,280	2,290	10	0.44%	560	\$13.60	Short-term on-the-job training
43-5081	Stock Clerks and Order Fillers	4,830	4,420	-410	-8.49%	1150	\$11.17	Short-term on-the-job training
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	130	120	-10	-7.69%	30	\$10.62	Short-term on-the-job training
43-6011	Executive Secretaries and Administrative Assistants	4,260	4,760	500	11.74%	1180	\$17.70	Work experience in a related occupation
43-6012	Legal Secretaries	550	600	50	9.09%	140	\$15.98	Associate degree
43-6013	Medical Secretaries	1,070	1,220	150	14.02%	320	\$12.72	Moderate-term on-the-job training
43-6014	Secretaries, Except Legal, Medical, and Executive	4,430	4,450	20	0.45%	720	\$12.30	Moderate-term on-the-job training
43-9011	Computer Operators	170	130	-40	-23.53%	30	\$15.03	Moderate-term on-the-job training
43-9021	Data Entry Keyers	590	570	-20	-3.39%	150	\$11.76	Moderate-term on-the-job training
43-9022	Word Processors and Typists	180	170	-10	-5.56%	30	\$13.33	Moderate-term on-the-job training
43-9031	Desktop Publishers	30	30	0	0.00%	10	\$13.12	Postsecondary vocational training
43-9041	Insurance Claims and Policy Processing Clerks	550	500	-50	-9.09%	70	\$15.74	Moderate-term on-the-job training
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	470	380	-90	-19.15%	120	\$11.02	Short-term on-the-job training
43-9061	Office Clerks, General	8,140	9,170	1,030	12.65%	2530	\$11.65	Short-term on-the-job training
43-9071	Office Machine Operators, Except Computer	200	200	0	0.00%	70	\$10.15	Short-term on-the-job training
47-1011	First-Line Supervisors/Managers of Construction Trades and Extraction	2,030	2,270	240	11.82%	530	\$23.98	Work experience in a related occupation

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47-2011	Boilermakers	150	160	10	6.67%	60	\$17.53	Long-term on-the-job training
47-2021	Brickmasons and Blockmasons	280	320	40	14.29%	100	\$21.02	Long-term on-the-job training
47-2022	Stonemasons	90	100	10	11.11%	30	\$13.98	Long-term on-the-job training
47-2031	Carpenters	2,600	2,990	390	15.00%	750	\$14.78	Long-term on-the-job training
47-2043	Floor Sanders and Finishers	200	210	10	5.00%	40	\$15.66	Moderate-term on-the-job training
47-2044	Tile and Marble Setters	570	680	110	19.30%	200	\$13.16	Long-term on-the-job training
47-2051	Cement Masons and Concrete Finishers	720	850	130	18.06%	330	\$14.15	Moderate-term on-the-job training
47-2061	Construction Laborers	4,500	5,500	1,000	22.22%	1340	\$11.78	Moderate-term on-the-job training
47-2071	Paving, Surfacing, and Tamping Equipment Operators	100	110	10	10.00%	30	\$14.79	Moderate-term on-the-job training
47-2073	Operating Engineers and Other Construction Equipment Operators	600	680	80	13.33%	190	\$16.30	Moderate-term on-the-job training
47-2081	Drywall and Ceiling Tile Installers	340	380	40	11.76%	90	\$15.72	Moderate-term on-the-job training
47-2082	Tapers	90	100	10	11.11%	20	\$16.69	Moderate-term on-the-job training
47-2111	Electricians	2,120	2,390	270	12.74%	810	\$19.09	Long-term on-the-job training
47-2121	Glaziers	190	210	20	10.53%	50	\$12.82	Long-term on-the-job training
47-2132	Insulation Workers, Mechanical	440	500	60	13.64%	160	\$17.75	Moderate-term on-the-job training
47-2141	Painters, Construction and Maintenance	1,150	1,320	170	14.78%	380	\$15.03	Moderate-term on-the-job training
47-2151	Pipelayers	230	270	40	17.39%	80	\$9.72	Moderate-term on-the-job training
47-2152	Plumbers, Pipefitters, and Steamfitters	1,630	1,840	210	12.88%	540	\$18.18	Long-term on-the-job training
47-2161	Plasterers and Stucco Masons	30	40	10	33.33%	10	\$15.28	Long-term on-the-job training
47-2181	Roofers	220	270	50	22.73%	100	\$12.22	Moderate-term on-the-job training
47-2211	Sheet Metal Workers	560	600	40	7.14%	180	\$14.33	Long-term on-the-job training
47-2221	Structural Iron and Steel Workers	140	160	20	14.29%	60	\$16.12	Long-term on-the-job training
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Mar	100	120	20	20.00%	40	\$11.96	Short-term on-the-job training
47-3012	Helpers--Carpenters	180	220	40	22.22%	80	\$10.90	Short-term on-the-job training
47-3013	Helpers--Electricians	440	490	50	11.36%	160	\$13.72	Short-term on-the-job training
47-3014	Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons	40	40	0	0.00%	10	\$10.45	Short-term on-the-job training
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	390	450	60	15.38%	160	\$12.65	Short-term on-the-job training
47-3019	Helpers, Construction Trades, All Other	100	110	10	10.00%	40	\$13.36	Short-term on-the-job training
47-4011	Construction and Building Inspectors	260	310	50	19.23%	100	\$21.01	Work experience in a related occupation
47-4051	Highway Maintenance Workers	330	380	50	15.15%	110	\$12.82	Moderate-term on-the-job training
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	60	70	10	16.67%	20	\$12.61	Moderate-term on-the-job training
47-5012	Rotary Drill Operators, Oil and Gas	20	20	0	0.00%	0	\$15.54	Moderate-term on-the-job training
47-5013	Service Unit Operators, Oil, Gas, and Mining	150	150	0	0.00%	20	N/A	Moderate-term on-the-job training
47-5021	Earth Drillers, Except Oil and Gas	70	70	0	0.00%	20	\$12.90	Moderate-term on-the-job training
47-5031	Explosives Workers, Ordnance Handling Experts, and Blasters	20	20	0	0.00%	10	\$14.93	Moderate-term on-the-job training
47-5071	Roustabouts, Oil and Gas	380	370	-10	-2.63%	110	\$15.35	Moderate-term on-the-job training
47-5081	Helpers--Extraction Workers	120	120	0	0.00%	40	\$14.45	Short-term on-the-job training
49-1011	First-Line Supervisors/Managers of Mechanics, Installers, and Repairer	1,390	1,450	60	4.32%	380	\$27.00	Work experience in a related occupation
49-2011	Computer, Automated Teller, and Office Machine Repairers	780	850	70	8.97%	160	\$19.83	Postsecondary vocational training
49-2022	Telecommunications Equipment Installers and Repairers, Except Line I	740	730	-10	-1.35%	180	\$27.35	Postsecondary vocational training
49-2092	Electric Motor, Power Tool, and Related Repairers	120	110	-10	-8.33%	50	\$16.26	Postsecondary vocational training
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipm	240	250	10	4.17%	90	\$20.46	Postsecondary vocational training
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Rel	20	30	10	50.00%	10	\$22.63	Postsecondary vocational training
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	90	100	10	11.11%	40	\$13.34	Postsecondary vocational training
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	60	60	0	0.00%	10	\$15.84	Postsecondary vocational training
49-2098	Security and Fire Alarm Systems Installers	390	490	100	25.64%	150	\$17.75	Postsecondary vocational training
49-3011	Aircraft Mechanics and Service Technicians	2,810	2,870	60	2.14%	340	N/A	Postsecondary vocational training
49-3021	Automotive Body and Related Repairers	750	840	90	12.00%	270	\$16.23	Long-term on-the-job training
49-3023	Automotive Service Technicians and Mechanics	1,320	1,460	140	10.61%	410	\$15.94	Postsecondary vocational training
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	920	1,030	110	11.96%	320	\$17.88	Postsecondary vocational training
49-3041	Farm Equipment Mechanics	80	70	-10	-12.50%	20	\$15.74	Long-term on-the-job training
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	390	430	40	10.26%	120	\$19.79	Long-term on-the-job training
49-3051	Motorboat Mechanics	70	90	20	28.57%	30	\$12.94	Long-term on-the-job training
49-3052	Motorcycle Mechanics	40	40	0	0.00%	10	\$13.10	Long-term on-the-job training

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Occupation Code	Occupation Title	Employment		Employment Change, 2006-2016		Total Openings	Mean Hourly Wage	Education and Training
		2006	2016	Numeric	Percent			
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	50	50	0	0.00%	10	\$11.63	Moderate-term on-the-job training
49-3092	Recreational Vehicle Service Technicians	130	150	20	15.38%	50	\$14.04	Long-term on-the-job training
49-3093	Tire Repairers and Changers	410	490	80	19.51%	160	\$12.02	Short-term on-the-job training
49-9011	Mechanical Door Repairers	210	250	40	19.05%	70	\$14.81	Moderate-term on-the-job training
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	180	190	10	5.56%	30	\$17.88	Moderate-term on-the-job training
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	1,150	1,320	170	14.78%	370	\$17.47	Long-term on-the-job training
49-9031	Home Appliance Repairers	220	210	-10	-4.55%	50	\$15.36	Long-term on-the-job training
49-9041	Industrial Machinery Mechanics	860	960	100	11.63%	240	\$18.18	Long-term on-the-job training
49-9042	Maintenance and Repair Workers, General	4,420	4,820	400	9.05%	510	\$16.12	Moderate-term on-the-job training
49-9043	Maintenance Workers, Machinery	260	250	-10	-3.85%	40	\$13.57	Moderate-term on-the-job training
49-9044	Millwrights	70	80	10	14.29%	20	\$27.29	Long-term on-the-job training
49-9045	Refractory Materials Repairers, Except Brickmasons	60	60	0	0.00%	10	\$17.00	Moderate-term on-the-job training
49-9051	Electrical Power-Line Installers and Repairers	300	350	50	16.67%	150	\$17.33	Long-term on-the-job training
49-9052	Telecommunications Line Installers and Repairers	270	320	50	18.52%	120	\$27.61	Long-term on-the-job training
49-9061	Camera and Photographic Equipment Repairers	20	30	10	50.00%	10	\$13.72	Moderate-term on-the-job training
49-9062	Medical Equipment Repairers	80	100	20	25.00%	40	\$15.33	Associate degree
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	440	470	30	6.82%	150	\$13.10	Moderate-term on-the-job training
49-9094	Locksmiths and Safe Repairers	110	140	30	27.27%	50	\$16.18	Moderate-term on-the-job training
49-9098	Helpers--Installation, Maintenance, and Repair Workers	470	510	40	8.51%	160	\$11.15	Short-term on-the-job training
49-9099	Installation, Maintenance, and Repair Workers, All Other	610	580	-30	-4.92%	40	N/A	Moderate-term on-the-job training
51-1011	First-Line Supervisors/Managers of Production and Operating Workers	2,240	2,180	-60	-2.68%	380	\$24.77	Work experience in a related occupation
51-2011	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	720	810	90	12.50%	240	\$19.39	Moderate-term on-the-job training
51-2022	Electrical and Electronic Equipment Assemblers	890	640	-250	-28.09%	150	\$14.63	Short-term on-the-job training
51-2023	Electromechanical Equipment Assemblers	150	130	-20	-13.33%	30	\$15.40	Short-term on-the-job training
51-2031	Engine and Other Machine Assemblers	70	70	0	0.00%	20	\$12.81	Short-term on-the-job training
51-2041	Structural Metal Fabricators and Fitters	920	920	0	0.00%	170	\$14.80	Moderate-term on-the-job training
51-2091	Fiberglass Laminators and Fabricators	40	40	0	0.00%	10	\$14.05	Moderate-term on-the-job training
51-2092	Team Assemblers	5,230	5,580	350	6.69%	1430	\$12.02	Moderate-term on-the-job training
51-2099	Assemblers and Fabricators, All Other	190	180	-10	-5.26%	40	\$15.88	Moderate-term on-the-job training
51-3011	Bakers	370	410	40	10.81%	120	\$10.23	Long-term on-the-job training
51-3021	Butchers and Meat Cutters	160	160	0	0.00%	50	\$11.48	Long-term on-the-job training
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	60	60	0	0.00%	20	\$9.60	Short-term on-the-job training
51-3092	Food Batchmakers	90	110	20	22.22%	40	\$10.19	Short-term on-the-job training
51-3093	Food Cooking Machine Operators and Tenders	60	60	0	0.00%	20	\$9.61	Short-term on-the-job training
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	290	300	10	3.45%	40	\$16.24	Moderate-term on-the-job training
51-4012	Numerical Tool and Process Control Programmers	50	50	0	0.00%	10	\$20.12	Work experience in a related occupation
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Meta	140	130	-10	-7.14%	40	\$13.61	Moderate-term on-the-job training
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	190	170	-20	-10.53%	40	\$14.14	Moderate-term on-the-job training
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders	1,060	990	-70	-6.60%	260	\$13.05	Moderate-term on-the-job training
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Met	190	150	-40	-21.05%	40	\$14.77	Moderate-term on-the-job training
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operat	370	330	-40	-10.81%	40	\$14.07	Moderate-term on-the-job training
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Met	240	190	-50	-20.83%	50	\$16.62	Moderate-term on-the-job training
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal an	170	140	-30	-17.65%	20	\$15.27	Moderate-term on-the-job training
51-4041	Machinists	2,220	2,190	-30	-1.35%	340	\$16.76	Long-term on-the-job training
51-4051	Metal-Refining Furnace Operators and Tenders	80	70	-10	-12.50%	10	\$15.31	Moderate-term on-the-job training
51-4052	Pourers and Casters, Metal	70	60	-10	-14.29%	10	\$14.29	Moderate-term on-the-job training
51-4071	Foundry Mold and Coremakers	40	30	-10	-25.00%	10	\$11.72	Moderate-term on-the-job training
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Te	250	220	-30	-12.00%	60	\$12.88	Moderate-term on-the-job training
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plas	690	690	0	0.00%	140	\$13.16	Moderate-term on-the-job training
51-4111	Tool and Die Makers	130	120	-10	-7.69%	20	\$18.18	Long-term on-the-job training
51-4121	Welders, Cutters, Solderers, and Brazers	2,740	2,920	180	6.57%	760	\$16.31	Postsecondary vocational training
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tend	270	280	10	3.70%	70	\$16.89	Postsecondary vocational training
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and F	150	130	-20	-13.33%	30	\$13.48	Moderate-term on-the-job training
51-4192	Lay-Out Workers, Metal and Plastic	130	120	-10	-7.69%	20	\$12.07	Moderate-term on-the-job training

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Occupation Code	Occupation Title	Employment		Employment Change, 2006-2016		Total Openings	Mean Hourly Wage	Education and Training
		2006	2016	Numeric	Percent			
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal ar	120	110	-10	-8.33%	40	\$13.86	Moderate-term on-the-job training
51-4194	Tool Grinders, Filers, and Sharpeners	110	90	-20	-18.18%	20	\$15.14	Moderate-term on-the-job training
51-5011	Bindery Workers	180	140	-40	-22.22%	30	\$13.56	Short-term on-the-job training
51-5021	Job Printers	240	200	-40	-16.67%	20	\$14.13	Long-term on-the-job training
51-5022	Prepress Technicians and Workers	160	140	-20	-12.50%	30	\$14.84	Postsecondary vocational training
51-5023	Printing Machine Operators	390	380	-10	-2.56%	90	\$14.76	Moderate-term on-the-job training
51-6011	Laundry and Dry-Cleaning Workers	640	690	50	7.81%	200	\$8.44	Moderate-term on-the-job training
51-6021	Pressers, Textile, Garment, and Related Materials	210	210	0	0.00%	20	\$8.18	Short-term on-the-job training
51-6031	Sewing Machine Operators	390	370	-20	-5.13%	40	\$9.79	Moderate-term on-the-job training
51-6091	Extruding and Forming Machine Setters, Operators, and Tenders, Syntl	30	20	-10	-33.33%	10	\$12.02	Moderate-term on-the-job training
51-6093	Upholsterers	70	60	-10	-14.29%	10	\$15.78	Long-term on-the-job training
51-7011	Cabinetmakers and Bench Carpenters	590	640	50	8.47%	220	\$12.77	Long-term on-the-job training
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawin	40	50	10	25.00%	20	\$13.17	Moderate-term on-the-job training
51-8021	Stationary Engineers and Boiler Operators	40	50	10	25.00%	10	\$18.39	Long-term on-the-job training
51-8031	Water and Liquid Waste Treatment Plant and System Operators	290	330	40	13.79%	90	\$15.11	Long-term on-the-job training
51-8092	Gas Plant Operators	90	90	0	0.00%	30	\$24.49	Long-term on-the-job training
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	520	420	-100	-19.23%	140	\$23.57	Long-term on-the-job training
51-9011	Chemical Equipment Operators and Tenders	100	100	0	0.00%	20	\$18.04	Moderate-term on-the-job training
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Ter	80	80	0	0.00%	20	\$12.52	Moderate-term on-the-job training
51-9022	Grinding and Polishing Workers, Hand	270	250	-20	-7.41%	40	\$11.38	Moderate-term on-the-job training
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	720	690	-30	-4.17%	120	\$12.18	Moderate-term on-the-job training
51-9031	Cutters and Trimmers, Hand	110	100	-10	-9.09%	20	\$20.68	Short-term on-the-job training
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	110	100	-10	-9.09%	20	\$12.86	Moderate-term on-the-job training
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Opera	210	190	-20	-9.52%	40	\$13.93	Moderate-term on-the-job training
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	110	100	-10	-9.09%	30	\$20.28	Moderate-term on-the-job training
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	1,780	1,710	-70	-3.93%	260	\$17.89	Moderate-term on-the-job training
51-9071	Jewelers and Precious Stone and Metal Workers	20	20	0	0.00%	10	\$16.97	Postsecondary vocational training
51-9081	Dental Laboratory Technicians	160	170	10	6.25%	40	\$15.30	Long-term on-the-job training
51-9111	Packaging and Filling Machine Operators and Tenders	500	490	-10	-2.00%	90	\$9.85	Short-term on-the-job training
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tendi	630	560	-70	-11.11%	120	\$12.24	Moderate-term on-the-job training
51-9122	Painters, Transportation Equipment	240	270	30	12.50%	70	\$15.40	Moderate-term on-the-job training
51-9123	Painting, Coating, and Decorating Workers	200	200	0	0.00%	40	\$12.89	Short-term on-the-job training
51-9131	Photographic Process Workers	70	40	-30	-42.86%	30	\$8.75	Moderate-term on-the-job training
51-9132	Photographic Processing Machine Operators	210	110	-100	-47.62%	70	\$9.42	Short-term on-the-job training
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	260	270	10	3.85%	70	\$13.54	Moderate-term on-the-job training
51-9196	Paper Goods Machine Setters, Operators, and Tenders	310	260	-50	-16.13%	80	\$18.68	Moderate-term on-the-job training
51-9198	Helpers--Production Workers	1,950	2,110	160	8.21%	630	\$10.80	Short-term on-the-job training
51-9199	Production Workers, All Other	340	390	50	14.71%	120	\$11.18	Moderate-term on-the-job training
53-1011	Aircraft Cargo Handling Supervisors	60	60	0	0.00%	20	\$34.22	Work experience in a related occupation
53-1021	First-Line Supervisors/Managers of Helpers, Laborers, and Material Mo	440	470	30	6.82%	130	\$18.27	Work experience in a related occupation
53-1031	First-Line Supervisors/Managers of Transportation and Material-Moving	1,310	1,350	40	3.05%	310	\$26.74	Work experience in a related occupation
53-2011	Airline Pilots, Copilots, and Flight Engineers	40	40	0	0.00%	10	N/A	Bachelor's degree
53-2012	Commercial Pilots	60	60	0	0.00%	20	N/A	Postsecondary vocational training
53-2021	Air Traffic Controllers	120	130	10	8.33%	40	\$51.05	Long-term on-the-job training
53-2022	Airfield Operations Specialists	20	20	0	0.00%	0	\$23.61	Long-term on-the-job training
53-3021	Bus Drivers, Transit and Intercity	120	130	10	8.33%	20	\$16.22	Moderate-term on-the-job training
53-3022	Bus Drivers, School	990	1,090	100	10.10%	240	\$10.46	Moderate-term on-the-job training
53-3031	Driver/Sales Workers	1,150	1,060	-90	-7.83%	200	\$12.92	Short-term on-the-job training
53-3032	Truck Drivers, Heavy and Tractor-Trailer	4,620	4,840	220	4.76%	1040	\$18.38	Moderate-term on-the-job training
53-3033	Truck Drivers, Light or Delivery Services	2,800	2,970	170	6.07%	660	\$12.62	Short-term on-the-job training
53-3041	Taxi Drivers and Chauffeurs	510	540	30	5.88%	100	\$9.58	Short-term on-the-job training
53-6021	Parking Lot Attendants	500	520	20	4.00%	160	\$8.14	Short-term on-the-job training
53-6031	Service Station Attendants	40	40	0	0.00%	20	\$8.17	Short-term on-the-job training
53-6051	Transportation Inspectors	180	190	10	5.56%	70	\$15.75	Work experience in a related occupation

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Occupation Code	Occupation Title	Employment		Employment Change, 2006-2016		Total Openings	Mean Hourly Wage	Education and Training
		2006	2016	Numeric	Percent			
53-7011	Conveyor Operators and Tenders	60	50	-10	-16.67%	10	\$14.23	Short-term on-the-job training
53-7021	Crane and Tower Operators	170	160	-10	-5.88%	30	\$18.65	Long-term on-the-job training
53-7032	Excavating and Loading Machine and Dragline Operators	450	520	70	15.56%	140	\$14.94	Moderate-term on-the-job training
53-7051	Industrial Truck and Tractor Operators	1,340	1,310	-30	-2.24%	340	\$13.16	Short-term on-the-job training
53-7061	Cleaners of Vehicles and Equipment	600	650	50	8.33%	270	\$10.58	Short-term on-the-job training
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	5,500	5,450	-50	-0.91%	1760	\$10.95	Short-term on-the-job training
53-7063	Machine Feeders and Offbearers	150	120	-30	-20.00%	30	\$12.44	Short-term on-the-job training
53-7064	Packers and Packagers, Hand	1,820	1,580	-240	-13.19%	220	\$8.89	Short-term on-the-job training
53-7072	Pump Operators, Except Wellhead Pumpers	80	70	-10	-12.50%	30	\$18.00	Moderate-term on-the-job training
53-7073	Wellhead Pumpers	1,050	950	-100	-9.52%	420	\$20.84	Moderate-term on-the-job training
53-7081	Refuse and Recyclable Material Collectors	410	440	30	7.32%	140	\$11.98	Short-term on-the-job training