

TULSA MSA OCCUPATIONAL PROJECTIONS, 2016 AND PROJECTED 2026

Occupation		Employment		Employment Change		Total Openings	Median Annual Wage, 2018	Education and Training Classification		
Code	Title	2016	2026	Number	Percent			Typical Entry-Level Education ¹	Work Experience in a Related Occupation ²	Typical on-the-job Training ³
00-0000	Total, All Occupations⁴	446,240	481,720	35,490	8.0	541,650	\$35,890			
11-1021	General and Operations Managers	7,380	8,100	720	9.7	6,940	\$84,820	Bachelor's degree	5 years or more	None
11-2011	Advertising and Promotions Managers	60	60	0	7.3	60	*	Bachelor's degree	Less than 5 years	None
11-2021	Marketing Managers	480	530	50	9.4	460	\$116,620	Bachelor's degree	5 years or more	None
11-2022	Sales Managers	1,200	1,290	90	7.3	1,130	\$103,280	Bachelor's degree	Less than 5 years	None
11-2031	Public Relations and Fundraising Managers	210	230	30	13.2	200	\$82,990	Bachelor's degree	5 years or more	None
11-3011	Administrative Services Managers	1,350	1,490	150	10.8	1,260	\$91,760	Bachelor's degree	Less than 5 years	None
11-3021	Computer and Information Systems Managers	780	870	90	11.4	680	\$113,810	Bachelor's degree	5 years or more	None
11-3031	Financial Managers	1,830	2,200	370	20.3	1,830	\$108,260	Bachelor's degree	5 years or more	None
11-3051	Industrial Production Managers	870	930	60	6.3	680	\$96,760	Bachelor's degree	5 years or more	None
11-3061	Purchasing Managers	240	260	20	7.5	210	\$93,520	Bachelor's degree	5 years or more	None
11-3071	Transportation, Storage, and Distribution Managers	420	460	40	8.7	370	\$74,130	High school diploma or	5 years or more	None
11-3111	Compensation and Benefits Managers	60	60	0	0.0	40	\$100,140	Bachelor's degree	5 years or more	None
11-3121	Human Resources Managers	410	450	40	10.6	380	\$95,900	Bachelor's degree	5 years or more	None
11-3131	Training and Development Managers	110	120	10	9.9	110	\$76,490	Bachelor's degree	5 years or more	None
11-9021	Construction Managers	1,500	1,680	180	11.8	1,250	\$71,370	Bachelor's degree	None	Moderate-term OTJ
11-9031	Education Administrators, Preschool and Childcare Cente	230	250	20	9.2	200	\$39,060	Bachelor's degree	Less than 5 years	None
11-9032	Education Administrators, Elementary and Secondary Sch	700	750	50	7.2	580	\$72,140	Master's degree	5 years or more	None
11-9033	Education Administrators, Postsecondary	350	390	30	9.4	310	\$72,110	Master's degree	Less than 5 years	None
11-9039	Education Administrators, All Other	50	50	10	10.4	40	\$53,110	Bachelor's degree	Less than 5 years	None
11-9041	Architectural and Engineering Managers	640	700	50	8.4	510	\$129,880	Bachelor's degree	5 years or more	None
11-9051	Food Service Managers	1,150	1,290	140	12.1	1,430	\$53,090	High school diploma or	Less than 5 years	None
11-9081	Lodging Managers	170	180	10	7.7	190	\$53,060	High school diploma or	Less than 5 years	None
11-9111	Medical and Health Services Managers	1,400	1,680	280	20.0	1,450	\$85,290	Bachelor's degree	Less than 5 years	None
11-9121	Natural Sciences Managers	50	60	10	9.3	50	\$104,690	Bachelor's degree	5 years or more	None
11-9131	Postmasters and Mail Superintendents	40	30	-10	-19.5	20	\$79,300	High school diploma or	Less than 5 years	Moderate-term OTJ
11-9141	Property, Real Estate, and Community Association Manag	1,030	1,120	90	8.6	890	\$69,070	High school diploma or	Less than 5 years	None
11-9151	Social and Community Service Managers	200	230	40	18.4	220	\$57,700	Bachelor's degree	Less than 5 years	None
11-9161	Emergency Management Directors	40	40	0	11.4	30	*	Bachelor's degree	5 years or more	None

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11-9199	Managers, All Other	720	790	70	9.4	590	\$103,210	Bachelor's degree	Less than 5 years	None
13-1021	Buyers and Purchasing Agents, Farm Products	40	40	0	-4.6	50	*	Bachelor's degree	None	Moderate-term OTJ
13-1022	Wholesale and Retail Buyers, Except Farm Products	360	350	-10	-2.8	390	*	Bachelor's degree	None	Moderate-term OTJ
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Pr	1,070	1,040	-30	-2.7	870	*	Bachelor's degree	None	Moderate-term OTJ
13-1031	Claims Adjusters, Examiners, and Investigators	810	820	10	0.7	660	\$70,630	High school diploma or	None	Long-term OTJ
13-1041	Compliance Officers	900	990	100	10.8	840	\$59,460	Bachelor's degree	None	Moderate-term OTJ
13-1051	Cost Estimators	610	680	70	11.7	690	\$61,400	Bachelor's degree	None	Moderate-term OTJ
13-1071	Human Resources Specialists	1,610	1,720	110	6.9	1,690	\$52,610	Bachelor's degree	None	None
13-1081	Logisticians	320	360	40	10.8	360	\$57,380	Bachelor's degree	None	None
13-1111	Management Analysts	1,210	1,390	170	14.2	1,260	\$85,010	Bachelor's degree	Less than 5 years	None
13-1121	Meeting, Convention, and Event Planners	240	270	30	12.4	320	\$48,900	Bachelor's degree	None	None
13-1131	Fundraisers	140	170	20	14.6	170	\$56,750	Bachelor's degree	None	None
13-1141	Compensation, Benefits, and Job Analysis Specialists	250	270	20	9.2	230	\$55,350	Bachelor's degree	Less than 5 years	None
13-1151	Training and Development Specialists	670	760	80	12.5	760	\$53,930	Bachelor's degree	Less than 5 years	None
13-1161	Market Research Analysts and Marketing Specialists	1,130	1,390	260	23.2	1,460	\$55,310	Bachelor's degree	None	None
13-1199	Business Operations Specialists, All Other	560	600	40	7.7	560	\$69,380	Bachelor's degree	None	None
13-2011	Accountants and Auditors	4,360	4,820	450	10.4	4,450	\$69,790	Bachelor's degree	None	None
13-2021	Appraisers and Assessors of Real Estate	160	180	20	14.6	130	\$44,430	Bachelor's degree	None	Long-term OTJ
13-2031	Budget Analysts	160	170	10	8.1	130	\$68,010	Bachelor's degree	None	None
13-2041	Credit Analysts	230	250	20	9.6	220	\$62,800	Bachelor's degree	None	None
13-2051	Financial Analysts	560	620	60	11.5	550	\$65,740	Bachelor's degree	None	None
13-2052	Personal Financial Advisors	500	580	80	16.2	480	\$59,460	Bachelor's degree	None	Long-term OTJ
13-2053	Insurance Underwriters	170	160	-10	-4.2	120	\$57,030	Bachelor's degree	None	Moderate-term OTJ
13-2071	Credit Counselors	140	150	10	10.3	130	\$38,180	Bachelor's degree	None	Moderate-term OTJ
13-2072	Loan Officers	1,000	1,120	130	12.7	970	\$66,070	Bachelor's degree	None	Moderate-term OTJ
13-2081	Tax Examiners and Collectors, and Revenue Agents	80	80	0	-1.3	50	\$73,460	Bachelor's degree	None	Moderate-term OTJ
13-2099	Financial Specialists, All Other	180	200	30	14.1	180	\$66,480	Bachelor's degree	None	Moderate-term OTJ
15-1121	Computer Systems Analysts	680	720	40	5.9	480	\$83,370	Bachelor's degree	None	None
15-1131	Computer Programmers	500	460	-50	-8.9	250	\$82,810	Bachelor's degree	None	None
15-1132	Software Developers, Applications	1,240	1,620	380	30.7	1,280	\$85,640	Bachelor's degree	None	None
15-1133	Software Developers, Systems Software	500	550	50	10.1	380	\$84,500	Bachelor's degree	None	None

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Code	Title	2016	2026	Number	Percent			Typical Entry-Level Education ¹	Work Experience in a Related Occupation ²	Typical on-the-job Training ³
15-1134	Web Developers	240	280	40	14.9	220	\$55,760	Associate's degree	None	None
15-1141	Database Administrators	220	240	30	12.5	170	\$79,580	Bachelor's degree	None	None
15-1142	Network and Computer Systems Administrators	750	800	40	5.7	520	\$71,450	Bachelor's degree	None	None
15-1143	Computer Network Architects	260	270	10	5.1	180	\$83,610	Bachelor's degree	5 years or more	None
15-1151	Computer User Support Specialists	2,060	2,280	220	10.9	1,780	\$44,350	Some college, no degree	None	None
15-1152	Computer Network Support Specialists	900	1,000	90	10.1	770	\$59,580	Associate's degree	None	None
15-1199	Computer Occupations, All Other	550	610	60	11.4	440	\$67,140	Bachelor's degree	None	None
15-2031	Operations Research Analysts	110	140	30	30.2	100	\$66,480	Bachelor's degree	None	None
17-1011	Architects, Except Landscape and Naval	390	410	20	5.1	300	\$67,940	Bachelor's degree	None	Internship/residency
17-1022	Surveyors	210	230	20	9.5	170	\$57,930	Bachelor's degree	None	Internship/residency
17-2011	Aerospace Engineers	420	470	50	11.8	310	\$89,780	Bachelor's degree	None	None
17-2041	Chemical Engineers	120	130	10	10.3	90	\$101,890	Bachelor's degree	None	None
17-2051	Civil Engineers	1,110	1,230	120	10.6	940	\$85,830	Bachelor's degree	None	None
17-2071	Electrical Engineers	530	590	60	11.6	410	\$97,650	Bachelor's degree	None	None
17-2072	Electronics Engineers, Except Computer	210	230	10	6.6	150	\$81,120	Bachelor's degree	None	None
17-2081	Environmental Engineers	200	220	20	9.9	160	\$66,540	Bachelor's degree	None	None
17-2111	Health and Safety Engineers, Except Mining Safety Engine	160	170	20	10.9	120	\$77,690	Bachelor's degree	None	None
17-2112	Industrial Engineers	720	820	100	13.6	590	\$82,490	Bachelor's degree	None	None
17-2131	Materials Engineers	40	40	0	5.4	30	\$99,400	Bachelor's degree	None	None
17-2141	Mechanical Engineers	980	1,100	120	12.2	760	\$89,670	Bachelor's degree	None	None
17-2171	Petroleum Engineers	710	790	90	12.0	570	\$127,840	Bachelor's degree	None	None
17-2199	Engineers, All Other	150	160	10	6.7	110	\$74,370	Bachelor's degree	None	None
17-3011	Architectural and Civil Drafters	450	480	30	7.2	420	\$55,010	Associate's degree	None	None
17-3012	Electrical and Electronics Drafters	110	120	10	8.9	110	\$69,370	Associate's degree	None	None
17-3013	Mechanical Drafters	520	570	40	8.2	500	\$60,600	Associate's degree	None	None
17-3022	Civil Engineering Technicians	170	200	20	12.1	180	\$48,860	Associate's degree	None	None
17-3023	Electrical and Electronics Engineering Technicians	330	340	20	5.5	300	\$57,110	Associate's degree	None	None
17-3025	Environmental Engineering Technicians	110	120	10	12.8	110	\$42,720	Associate's degree	None	None
17-3026	Industrial Engineering Technicians	150	160	10	8.2	140	\$73,320	Associate's degree	None	None
17-3027	Mechanical Engineering Technicians	210	230	20	8.1	200	\$58,490	Associate's degree	None	None
17-3029	Engineering Technicians, Except Drafters, All Other	230	250	20	8.7	220	\$61,280	Associate's degree	None	None

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17-3031	Surveying and Mapping Technicians	200	230	30	12.9	250	\$54,690	High school diploma or	None	Moderate-term OTJ
19-1031	Conservation Scientists	80	90	10	11.3	80	*	Bachelor's degree	None	None
19-2021	Atmospheric and Space Scientists	40	40	0	7.9	30	\$79,610	Bachelor's degree	None	None
19-2031	Chemists	80	90	10	8.4	80	\$64,120	Bachelor's degree	None	None
19-2041	Environmental Scientists and Specialists, Including Health	90	100	10	11.8	100	\$52,000	Bachelor's degree	None	None
19-2042	Geoscientists, Except Hydrologists and Geographers	250	280	30	12.7	270	\$123,360	Bachelor's degree	None	None
19-3031	Clinical, Counseling, and School Psychologists	470	540	80	16.0	400	\$59,780	Doctoral or professiona	None	Internship/residency
19-4031	Chemical Technicians	120	130	10	5.0	120	\$49,120	Associate's degree	None	Moderate-term OTJ
19-4041	Geological and Petroleum Technicians	320	360	30	10.6	370	\$69,000	Associate's degree	None	Moderate-term OTJ
19-4091	Environmental Science and Protection Technicians, Includ	110	120	10	12.8	150	\$43,820	Associate's degree	None	None
19-4099	Life, Physical, and Social Science Technicians, All Other	110	120	10	10.0	140	\$58,640	Associate's degree	None	None
21-1011	Substance Abuse and Behavioral Disorder Counselors	380	460	80	21.9	510	*	Bachelor's degree	None	None
21-1012	Educational, Guidance, School, and Vocational Counselor	740	830	90	12.3	900	\$42,980	Master's degree	None	None
21-1013	Marriage and Family Therapists	60	80	10	23.0	80	\$47,190	Master's degree	None	Internship/residency
21-1014	Mental Health Counselors	930	1,140	210	22.8	1,270	*	Master's degree	None	Internship/residency
21-1015	Rehabilitation Counselors	490	550	60	11.3	590	\$23,410	Master's degree	None	None
21-1021	Child, Family, and School Social Workers	910	970	60	6.8	1,000	\$36,820	Bachelor's degree	None	None
21-1022	Healthcare Social Workers	580	690	110	18.9	740	\$49,400	Master's degree	None	Internship/residency
21-1023	Mental Health and Substance Abuse Social Workers	330	390	60	18.1	410	\$33,790	Master's degree	None	Internship/residency
21-1091	Health Educators	150	180	20	15.0	220	\$56,740	Bachelor's degree	None	None
21-1092	Probation Officers and Correctional Treatment Specialists	200	210	10	4.5	180	\$37,620	Bachelor's degree	None	Short-term OTJ
21-1093	Social and Human Service Assistants	300	340	40	13.6	420	\$26,810	High school diploma or	None	Short-term OTJ
21-2011	Clergy	120	150	20	18.7	170	\$47,870	Bachelor's degree	None	Moderate-term OTJ
23-1011	Lawyers	2,070	2,210	140	6.8	1,030	\$115,580	Doctoral or professiona	None	None
23-1023	Judges, Magistrate Judges, and Magistrates	110	110	0	0.9	50	\$75,810	Doctoral or professiona	5 years or more	Short-term OTJ
23-2011	Paralegals and Legal Assistants	760	870	100	13.5	910	\$51,590	Associate's degree	None	None
23-2093	Title Examiners, Abstractors, and Searchers	580	610	30	5.4	510	\$48,080	High school diploma or	None	Moderate-term OTJ
25-1011	Business Teachers, Postsecondary	110	130	20	17.8	110	\$75,690	Doctoral or professiona	None	None
25-1042	Biological Science Teachers, Postsecondary	80	90	10	14.7	70	\$73,260	Doctoral or professiona	None	None
25-1052	Chemistry Teachers, Postsecondary	50	50	10	10.4	40	\$77,890	Doctoral or professiona	None	None
25-1066	Psychology Teachers, Postsecondary	100	110	10	14.0	90	\$74,740	Doctoral or professiona	None	None

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25-1067	Sociology Teachers, Postsecondary	30	30	0	10.0	30	*	Doctoral or professiona	None	None
25-1071	Health Specialties Teachers, Postsecondary	230	290	60	25.1	250	\$63,790	Doctoral or professiona	Less than 5 years	None
25-1072	Nursing Instructors and Teachers, Postsecondary	110	140	30	23.4	120	\$63,420	Doctoral or professiona	Less than 5 years	None
25-1081	Education Teachers, Postsecondary	110	120	10	10.2	100	*	Doctoral or professiona	Less than 5 years	None
25-1121	Art, Drama, and Music Teachers, Postsecondary	80	90	10	11.0	70	\$63,990	Master's degree	None	None
25-1123	English Language and Literature Teachers, Postsecondary	150	160	10	8.7	130	\$52,840	Doctoral or professiona	None	None
25-1124	Foreign Language and Literature Teachers, Postsecondary	30	40	0	12.1	30	*	Doctoral or professiona	None	None
25-1125	History Teachers, Postsecondary	60	60	10	9.1	50	*	Doctoral or professiona	None	None
25-1194	Vocational Education Teachers, Postsecondary	650	660	10	0.8	500	\$50,100	Bachelor's degree	Less than 5 years	None
25-1199	Postsecondary Teachers, All Other	210	220	20	9.3	180	\$77,480	Doctoral or professiona	None	None
25-2011	Preschool Teachers, Except Special Education	1,610	1,760	150	9.3	1,780	\$24,550	Associate's degree	None	None
25-2012	Kindergarten Teachers, Except Special Education	540	580	40	7.4	580	\$38,480	Bachelor's degree	None	None
25-2021	Elementary School Teachers, Except Special Education	3,870	4,130	260	6.8	3,060	\$38,690	Bachelor's degree	None	None
25-2022	Middle School Teachers, Except Special and Career/Techr	1,550	1,650	110	6.9	1,230	\$39,270	Bachelor's degree	None	None
25-2023	Career/Technical Education Teachers, Middle School	90	100	10	6.7	70	\$36,540	Bachelor's degree	Less than 5 years	None
25-2031	Secondary School Teachers, Except Special and Career/Te	2,430	2,600	170	7.0	1,880	\$40,820	Bachelor's degree	None	None
25-2032	Career/Technical Education Teachers, Secondary School	110	120	10	6.3	90	\$40,700	Bachelor's degree	Less than 5 years	None
25-2052	Special Education Teachers, Kindergarten and Elementary	690	730	40	6.3	540	\$41,270	Bachelor's degree	None	None
25-2053	Special Education Teachers, Middle School	190	210	10	6.2	150	\$41,660	Bachelor's degree	None	None
25-2054	Special Education Teachers, Secondary School	300	320	20	6.4	230	\$41,100	Bachelor's degree	None	None
25-3011	Adult Basic and Secondary Education and Literacy Teache	140	130	-10	-5.8	140	\$45,440	Bachelor's degree	None	None
25-3021	Self-Enrichment Education Teachers	470	560	90	18.8	640	\$28,130	High school diploma or	Less than 5 years	None
25-3097	Teachers and Instructors, All Other, Except Substitute Tea	260	290	30	11.4	330	\$30,880	Bachelor's degree	None	None
25-3098	Substitute Teachers	2,040	2,230	190	9.2	2,490	\$18,650	Bachelor's degree	None	None
25-4013	Museum Technicians and Conservators	30	40	10	23.3	40	\$36,840	Bachelor's degree	None	None
25-4021	Librarians	240	270	20	9.0	260	\$43,370	Master's degree	None	None
25-4031	Library Technicians	310	350	40	11.8	470	\$25,130	Postsecondary non-deg	None	None
25-9011	Audio-Visual and Multimedia Collections Specialists	40	40	0	8.1	40	*	Bachelor's degree	Less than 5 years	None
25-9031	Instructional Coordinators	260	290	30	9.9	270	\$56,050	Master's degree	5 years or more	None
25-9041	Teacher Assistants	3,190	3,450	260	8.0	3,590	\$19,010	Some college, no degre	None	None
27-1011	Art Directors	70	70	10	7.5	60	\$74,830	Bachelor's degree	5 years or more	None

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27-1014	Multimedia Artists and Animators	40	50	0	9.8	40	*	Bachelor's degree	None	None
27-1021	Commercial and Industrial Designers	60	60	0	5.1	60	\$77,350	Bachelor's degree	None	None
27-1023	Floral Designers	170	150	-10	-6.7	140	\$32,930	High school diploma or	None	Moderate-term OTJ
27-1024	Graphic Designers	620	650	30	5.5	620	\$39,270	Bachelor's degree	None	None
27-1025	Interior Designers	230	240	10	3.5	220	\$40,900	Bachelor's degree	None	None
27-1026	Merchandise Displayers and Window Trimmers	340	330	-10	-1.5	300	\$26,050	High school diploma or	None	Short-term OTJ
27-2012	Producers and Directors	260	300	40	15.6	280	\$52,890	Bachelor's degree	Less than 5 years	None
27-2022	Coaches and Scouts	470	530	70	14.2	720	\$32,120	Bachelor's degree	None	None
27-3011	Radio and Television Announcers	50	40	-10	-10.9	40	\$24,000	Bachelor's degree	None	None
27-3022	Reporters and Correspondents	130	120	-10	-6.2	110	\$38,680	Bachelor's degree	None	None
27-3031	Public Relations Specialists	490	530	50	10.1	540	\$49,370	Bachelor's degree	None	None
27-3041	Editors	300	300	0	0.0	290	\$50,670	Bachelor's degree	Less than 5 years	None
27-3042	Technical Writers	200	220	20	11.5	220	\$55,070	Bachelor's degree	Less than 5 years	Short-term OTJ
27-3043	Writers and Authors	320	340	30	9.2	310	\$49,530	Bachelor's degree	None	Long-term OTJ
27-3091	Interpreters and Translators	100	110	10	9.8	100	\$33,980	Bachelor's degree	None	None
27-4012	Broadcast Technicians	40	40	0	0.0	40	\$37,260	Associate's degree	None	Short-term OTJ
27-4021	Photographers	560	550	-20	-3.0	420	\$32,340	High school diploma or	None	Long-term OTJ
27-4032	Film and Video Editors	40	40	10	15.8	40	\$43,080	Bachelor's degree	None	None
29-1011	Chiropractors	140	150	20	10.8	50	\$70,730	Doctoral or professiona	None	None
29-1021	Dentists, General	400	480	70	18.3	190	\$141,340	Doctoral or professiona	None	None
29-1031	Dietitians and Nutritionists	170	190	20	14.4	130	\$56,950	Bachelor's degree	None	Internship/residency
29-1041	Optometrists	140	160	20	15.9	70	\$99,410	Doctoral or professiona	None	None
29-1051	Pharmacists	820	860	40	5.2	400	\$120,280	Doctoral or professiona	None	None
29-1062	Family and General Practitioners	760	860	90	12.3	300	*	Doctoral or professiona	None	Internship/residency
29-1063	Internists, General	70	80	10	12.7	30	*	Doctoral or professiona	None	Internship/residency
29-1069	Physicians and Surgeons, All Other	950	1,050	100	10.6	360	*	Doctoral or professiona	None	Internship/residency
29-1071	Physician Assistants	450	610	170	36.8	450	\$108,530	Master's degree	None	None
29-1081	Podiatrists	50	50	0	8.9	30	*	Doctoral or professiona	None	Internship/residency
29-1122	Occupational Therapists	360	440	80	23.3	280	\$78,020	Master's degree	None	None
29-1123	Physical Therapists	600	750	150	25.5	420	\$76,290	Doctoral or professiona	None	None
29-1124	Radiation Therapists	150	170	20	11.5	90	\$64,330	Associate's degree	None	None

TULSA MSA OCCUPATIONAL PROJECTIONS, 2016 AND PROJECTED 2026

Occupation		Employment		Employment Change		Total Openings	Median Annual Wage, 2018	Education and Training Classification		
Code	Title	2016	2026	Number	Percent			Typical Entry-Level Education ¹	Work Experience in a Related Occupation ²	Typical on-the-job Training ³
29-1125	Recreational Therapists	50	60	0	5.7	30	\$29,160	Bachelor's degree	None	None
29-1126	Respiratory Therapists	250	300	50	20.8	180	\$53,830	Associate's degree	None	None
29-1141	Registered Nurses	7,460	8,440	990	13.2	4,990	\$61,350	Bachelor's degree	None	None
29-1151	Nurse Anesthetists	200	230	30	14.4	130	\$171,020	Master's degree	None	None
29-1171	Nurse Practitioners	320	430	110	33.4	290	\$104,890	Master's degree	None	None
29-2011	Medical and Clinical Laboratory Technologists	540	600	50	9.9	400	*	Bachelor's degree	None	None
29-2012	Medical and Clinical Laboratory Technicians	570	640	70	12.2	440	*	Associate's degree	None	None
29-2021	Dental Hygienists	440	520	80	17.6	360	\$80,580	Associate's degree	None	None
29-2031	Cardiovascular Technologists and Technicians	230	250	20	8.4	140	\$36,950	Associate's degree	None	None
29-2032	Diagnostic Medical Sonographers	200	250	50	22.1	160	\$68,310	Associate's degree	None	None
29-2033	Nuclear Medicine Technologists	160	180	10	8.0	100	\$75,780	Associate's degree	None	None
29-2034	Radiologic Technologists	570	630	60	9.9	360	\$55,440	Associate's degree	None	None
29-2035	Magnetic Resonance Imaging Technologists	80	90	10	11.7	50	\$63,250	Associate's degree	Less than 5 years	None
29-2041	Emergency Medical Technicians and Paramedics	740	860	120	16.0	580	\$28,610	Postsecondary non-deg	None	None
29-2051	Dietetic Technicians	210	220	20	7.2	180	\$21,710	Associate's degree	None	None
29-2052	Pharmacy Technicians	1,180	1,330	150	12.5	1,110	\$29,640	High school diploma or	None	Moderate-term OTJ
29-2053	Psychiatric Technicians	190	200	10	4.6	160	\$25,380	Postsecondary non-deg	Less than 5 years	Short-term OTJ
29-2055	Surgical Technologists	400	440	40	9.8	360	\$38,390	Postsecondary non-deg	None	None
29-2056	Veterinary Technologists and Technicians	150	180	30	18.9	150	\$28,440	Associate's degree	None	None
29-2057	Ophthalmic Medical Technicians	170	200	30	17.1	170	\$35,900	Postsecondary non-deg	None	None
29-2061	Licensed Practical and Licensed Vocational Nurses	2,240	2,470	240	10.6	1,880	\$41,810	Postsecondary non-deg	None	None
29-2071	Medical Records and Health Information Technicians	930	1,040	110	11.7	690	\$37,890	Postsecondary non-deg	None	None
29-2081	Opticians, Dispensing	260	300	40	14.3	230	\$28,700	High school diploma or	None	Long-term OTJ
29-2099	Health Technologists and Technicians, All Other	250	290	50	18.6	210	\$34,480	Postsecondary non-deg	None	None
29-9011	Occupational Health and Safety Specialists	320	350	40	11.4	200	\$61,570	Bachelor's degree	None	None
29-9099	Healthcare Practitioners and Technical Workers, All Other	50	50	0	0.0	20	*	Postsecondary non-deg	None	None
31-1011	Home Health Aides	3,100	4,520	1,420	45.9	5,660	\$19,720	High school diploma or	None	Short-term OTJ
31-1014	Nursing Assistants	3,440	3,750	310	9.1	4,320	\$24,910	Postsecondary non-deg	None	None
31-2011	Occupational Therapy Assistants	120	160	30	27.4	210	\$63,850	Associate's degree	None	None
31-2021	Physical Therapist Assistants	310	400	90	28.9	510	\$60,430	Associate's degree	None	None
31-2022	Physical Therapist Aides	90	110	20	26.7	140	\$18,240	High school diploma or	None	Short-term OTJ

TULSA MSA OCCUPATIONAL PROJECTIONS, 2016 AND PROJECTED 2026

Occupation		Employment		Employment Change		Total Openings	Median Annual Wage, 2018	Education and Training Classification		
Code	Title	2016	2026	Number	Percent			Typical Entry-Level Education ¹	Work Experience in a Related Occupation ²	Typical on-the-job Training ³
31-9091	Dental Assistants	1,100	1,290	190	17.5	1,490	\$35,840	Postsecondary non-deg	None	None
31-9092	Medical Assistants	3,310	4,200	900	27.1	4,850	\$31,890	Postsecondary non-deg	None	None
31-9093	Medical Equipment Preparers	90	100	10	8.9	120	\$29,590	High school diploma or	None	Moderate-term OTJ
31-9094	Medical Transcriptionists	140	120	-10	-8.8	140	\$43,350	Postsecondary non-deg	None	None
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	380	450	70	18.7	690	\$27,350	High school diploma or	None	Short-term OTJ
31-9097	Phlebotomists	460	560	100	22.2	610	\$30,430	Postsecondary non-deg	None	None
31-9099	Healthcare Support Workers, All Other	40	40	0	8.1	50	\$34,170	High school diploma or	None	None
33-1011	First-Line Supervisors of Correctional Officers	50	40	-10	-10.2	30	*	High school diploma or	Less than 5 years	None
33-1012	First-Line Supervisors of Police and Detectives	400	450	60	13.9	300	\$69,160	High school diploma or	Less than 5 years	Moderate-term OTJ
33-1021	First-Line Supervisors of Fire Fighting and Prevention Workers	250	290	40	13.8	210	\$65,170	Postsecondary non-deg	Less than 5 years	Moderate-term OTJ
33-1099	First-Line Supervisors of Protective Service Workers, All Other	230	240	10	4.0	230	\$38,790	High school diploma or	Less than 5 years	None
33-2011	Firefighters	920	1,050	130	14.1	770	\$41,830	Postsecondary non-deg	None	Long-term OTJ
33-3012	Correctional Officers and Jailers	520	510	-10	-2.5	400	\$30,130	High school diploma or	None	Moderate-term OTJ
33-3021	Detectives and Criminal Investigators	140	150	10	4.3	90	\$54,970	High school diploma or	Less than 5 years	Moderate-term OTJ
33-3051	Police and Sheriff's Patrol Officers	1,910	2,170	260	13.5	1,540	\$49,780	High school diploma or	None	Moderate-term OTJ
33-9011	Animal Control Workers	60	70	10	14.3	80	\$29,520	High school diploma or	None	Moderate-term OTJ
33-9021	Private Detectives and Investigators	80	80	10	6.3	80	\$29,840	High school diploma or	Less than 5 years	Moderate-term OTJ
33-9031	Gaming Surveillance Officers and Gaming Investigators	120	140	20	14.1	190	\$27,390	High school diploma or	Less than 5 years	Moderate-term OTJ
33-9032	Security Guards	3,290	3,470	180	5.5	4,570	\$27,630	High school diploma or	None	Short-term OTJ
33-9091	Crossing Guards	110	120	10	11.9	220	\$19,220	No formal educational c	None	Short-term OTJ
33-9093	Transportation Security Screeners	120	120	10	4.3	110	\$38,250	High school diploma or	None	Short-term OTJ
35-1011	Chefs and Head Cooks	430	490	60	15.1	630	\$43,150	High school diploma or	5 years or more	None
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	4,310	4,890	580	13.5	7,020	\$25,340	High school diploma or	Less than 5 years	None
35-2011	Cooks, Fast Food	4,360	4,300	-60	-1.5	5,940	\$18,250	No formal educational c	None	Short-term OTJ
35-2012	Cooks, Institution and Cafeteria	1,990	2,080	90	4.5	2,910	\$21,930	No formal educational c	None	Short-term OTJ
35-2014	Cooks, Restaurant	3,390	3,940	550	16.1	5,620	\$23,420	No formal educational c	Less than 5 years	Moderate-term OTJ
35-2021	Food Preparation Workers	2,700	3,040	330	12.3	5,120	\$23,710	No formal educational c	None	Short-term OTJ
35-3011	Bartenders	1,590	1,710	120	7.6	2,800	\$18,770	No formal educational c	None	Short-term OTJ
35-3021	Combined Food Preparation and Serving Workers, Including Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	8,370	10,150	1,790	21.3	18,560	\$18,450	No formal educational c	None	Short-term OTJ
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	1,810	1,960	150	8.4	4,190	\$19,060	No formal educational c	None	Short-term OTJ
35-3031	Waiters and Waitresses	7,170	8,000	830	11.6	15,050	\$18,500	No formal educational c	None	Short-term OTJ

TULSA MSA OCCUPATIONAL PROJECTIONS, 2016 AND PROJECTED 2026

Occupation		Employment		Employment Change		Total Openings	Median Annual Wage, 2018	Education and Training Classification		
Code	Title	2016	2026	Number	Percent			Typical Entry-Level Education ¹	Work Experience in a Related Occupation ²	Typical on-the-job Training ³
35-3041	Food Servers, Nonrestaurant	870	960	90	10.1	1,420	\$20,140	No formal educational c	None	Short-term OTJ
35-9021	Dishwashers	1,070	1,170	90	8.8	1,810	\$19,930	No formal educational c	None	Short-term OTJ
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Sho	1,500	1,670	170	11.3	3,730	\$18,290	No formal educational c	None	Short-term OTJ
37-1011	First-Line Supervisors of Housekeeping and Janitorial Wo	440	490	50	10.7	560	\$36,420	High school diploma or	Less than 5 years	None
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and C	520	580	60	11.4	570	\$38,200	High school diploma or	Less than 5 years	None
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cl	4,750	5,200	450	9.5	6,820	\$22,040	No formal educational c	None	Short-term OTJ
37-2012	Maids and Housekeeping Cleaners	2,910	3,190	280	9.7	4,240	\$20,390	No formal educational c	None	Short-term OTJ
37-3011	Landscaping and Groundskeeping Workers	2,650	2,960	310	11.6	3,620	\$26,440	No formal educational c	None	Short-term OTJ
37-3013	Tree Trimmers and Pruners	60	70	10	11.5	80	\$29,320	High school diploma or	None	Short-term OTJ
39-1021	First-Line Supervisors of Personal Service Workers	530	610	80	14.2	610	\$26,590	High school diploma or	Less than 5 years	None
39-3012	Gaming and Sports Book Writers and Runners	50	50	10	13.3	80	\$18,150	High school diploma or	None	Short-term OTJ
39-3031	Ushers, Lobby Attendants, and Ticket Takers	410	450	40	10.6	1,080	\$18,550	No formal educational c	None	Short-term OTJ
39-3091	Amusement and Recreation Attendants	490	580	90	18.7	1,300	\$19,450	No formal educational c	None	Short-term OTJ
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	30	40	10	21.9	90	\$21,430	High school diploma or	None	Short-term OTJ
39-4031	Morticians, Undertakers, and Funeral Directors	40	40	0	2.5	50	\$45,410	Associate's degree	None	Long-term OTJ
39-5012	Hairdressers, Hairstylists, and Cosmetologists	1,850	2,050	200	10.9	2,480	\$22,670	Postsecondary non-deg	None	None
39-9011	Childcare Workers	2,170	2,360	200	9.0	3,450	\$19,390	High school diploma or	None	Short-term OTJ
39-9021	Personal Care Aides	2,600	3,630	1,030	39.7	5,390	\$19,380	High school diploma or	None	Short-term OTJ
39-9031	Fitness Trainers and Aerobics Instructors	820	940	130	15.3	1,580	\$37,770	High school diploma or	None	Short-term OTJ
39-9032	Recreation Workers	410	470	60	15.0	780	\$24,870	High school diploma or	None	Short-term OTJ
41-1011	First-Line Supervisors of Retail Sales Workers	6,120	6,380	260	4.3	6,770	\$35,550	High school diploma or	Less than 5 years	None
41-1012	First-Line Supervisors of Non-Retail Sales Workers	1,260	1,330	70	5.5	1,220	\$61,470	High school diploma or	Less than 5 years	None
41-2011	Cashiers	10,800	10,750	-50	-0.5	19,930	\$20,050	No formal educational c	None	Short-term OTJ
41-2021	Counter and Rental Clerks	1,160	1,190	40	3.0	1,510	\$26,560	No formal educational c	None	Short-term OTJ
41-2031	Retail Salespersons	15,240	15,550	310	2.0	22,280	\$23,070	No formal educational c	None	Short-term OTJ
41-3021	Insurance Sales Agents	1,830	2,030	200	11.2	2,030	\$59,890	High school diploma or	None	Moderate-term OTJ
41-3031	Securities, Commodities, and Financial Services Sales Age	660	710	50	7.3	680	\$53,370	Bachelor's degree	None	Moderate-term OTJ
41-3099	Sales Representatives, Services, All Other	2,450	2,660	210	8.7	3,230	\$48,720	High school diploma or	None	Moderate-term OTJ
41-4011	Sales Representatives, Wholesale and Manufacturing, Tec	1,980	2,070	80	4.2	2,110	\$68,240	Bachelor's degree	None	Moderate-term OTJ
41-4012	Sales Representatives, Wholesale and Manufacturing, Exc	3,410	3,640	230	6.8	3,760	\$44,700	High school diploma or	None	Moderate-term OTJ
41-9022	Real Estate Sales Agents	2,430	2,590	160	6.5	2,430	\$47,330	High school diploma or	None	Moderate-term OTJ

TULSA MSA OCCUPATIONAL PROJECTIONS, 2016 AND PROJECTED 2026

Occupation		Employment		Employment Change		Total Openings	Median Annual Wage, 2018	Education and Training Classification		
Code	Title	2016	2026	Number	Percent			Typical Entry-Level Education ¹	Work Experience in a Related Occupation ²	Typical on-the-job Training ³
41-9031	Sales Engineers	250	260	20	6.1	270	\$98,800	Bachelor's degree	None	Moderate-term OTJ
41-9041	Telemarketers	2,780	2,830	50	1.9	4,370	\$20,090	No formal educational c	None	Short-term OTJ
41-9099	Sales and Related Workers, All Other	170	190	20	12.6	250	*	High school diploma or	None	None
43-1011	First-Line Supervisors of Office and Administrative Support	5,560	5,830	270	4.9	5,770	\$51,050	High school diploma or	Less than 5 years	None
43-2011	Switchboard Operators, Including Answering Service	270	210	-60	-21.4	250	\$26,590	High school diploma or	None	Short-term OTJ
43-3011	Bill and Account Collectors	1,240	1,210	-30	-2.2	1,230	\$35,370	High school diploma or	None	Moderate-term OTJ
43-3021	Billing and Posting Clerks	1,250	1,420	170	13.4	1,470	\$34,270	High school diploma or	None	Moderate-term OTJ
43-3031	Bookkeeping, Accounting, and Auditing Clerks	5,820	5,780	-50	-0.8	6,330	\$41,420	Some college, no degree	None	Moderate-term OTJ
43-3051	Payroll and Timekeeping Clerks	700	690	0	-0.4	680	\$40,280	High school diploma or	None	Moderate-term OTJ
43-3061	Procurement Clerks	320	310	-10	-2.5	330	\$45,980	High school diploma or	None	Moderate-term OTJ
43-3071	Tellers	1,530	1,420	-110	-7.0	1,590	\$27,950	High school diploma or	None	Short-term OTJ
43-4011	Brokerage Clerks	90	100	10	6.5	100	\$53,360	High school diploma or	None	Moderate-term OTJ
43-4031	Court, Municipal, and License Clerks	250	280	30	12.2	250	\$29,790	High school diploma or	None	Moderate-term OTJ
43-4041	Credit Authorizers, Checkers, and Clerks	290	280	0	-0.7	280	\$32,070	High school diploma or	None	Moderate-term OTJ
43-4051	Customer Service Representatives	9,830	10,350	520	5.3	13,250	\$31,140	High school diploma or	None	Short-term OTJ
43-4061	Eligibility Interviewers, Government Programs	40	40	0	5.7	30	\$47,460	High school diploma or	None	Moderate-term OTJ
43-4071	File Clerks	620	550	-60	-10.4	650	\$31,280	High school diploma or	None	Short-term OTJ
43-4081	Hotel, Motel, and Resort Desk Clerks	750	820	60	8.5	1,270	\$19,160	High school diploma or	None	Short-term OTJ
43-4121	Library Assistants, Clerical	120	140	20	12.1	200	\$26,490	High school diploma or	None	Short-term OTJ
43-4131	Loan Interviewers and Clerks	1,190	1,360	160	13.7	1,360	\$36,490	High school diploma or	None	Short-term OTJ
43-4141	New Accounts Clerks	420	400	-20	-4.5	410	\$34,690	High school diploma or	None	Moderate-term OTJ
43-4151	Order Clerks	360	350	-10	-2.5	390	\$33,230	High school diploma or	None	Short-term OTJ
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	340	330	-10	-1.5	360	\$35,710	Associate's degree	None	None
43-4171	Receptionists and Information Clerks	2,580	2,760	180	6.9	3,610	\$29,050	High school diploma or	None	Short-term OTJ
43-4181	Reservation and Transportation Ticket Agents and Travel Agents	120	130	10	5.7	140	\$46,010	High school diploma or	None	Short-term OTJ
43-4199	Information and Record Clerks, All Other	180	190	10	4.4	220	\$37,230	High school diploma or	None	Short-term OTJ
43-5011	Cargo and Freight Agents	110	120	10	10.4	100	\$35,570	High school diploma or	None	Short-term OTJ
43-5021	Couriers and Messengers	250	290	30	12.2	270	\$25,560	High school diploma or	None	Short-term OTJ
43-5031	Police, Fire, and Ambulance Dispatchers	230	270	30	14.1	260	\$28,640	High school diploma or	None	Moderate-term OTJ
43-5032	Dispatchers, Except Police, Fire, and Ambulance	540	550	10	0.9	490	\$34,750	High school diploma or	None	Moderate-term OTJ
43-5041	Meter Readers, Utilities	100	100	0	3.0	80	\$32,390	High school diploma or	None	Short-term OTJ

TULSA MSA OCCUPATIONAL PROJECTIONS, 2016 AND PROJECTED 2026

Occupation		Employment		Employment Change		Total Openings	Median Annual Wage, 2018	Education and Training Classification		
Code	Title	2016	2026	Number	Percent			Typical Entry-Level Education ¹	Work Experience in a Related Occupation ²	Typical on-the-job Training ³
43-5051	Postal Service Clerks	200	180	-20	-10.6	130	\$60,090	High school diploma or	None	Short-term OTJ
43-5052	Postal Service Mail Carriers	1,090	980	-110	-10.2	580	\$49,410	High school diploma or	None	Short-term OTJ
43-5053	Postal Service Mail Sorters, Processors, and Processing M	370	320	-60	-14.8	190	\$59,870	High school diploma or	None	Short-term OTJ
43-5061	Production, Planning, and Expediting Clerks	1,390	1,520	130	9.6	1,590	\$47,110	High school diploma or	None	Moderate-term OTJ
43-5071	Shipping, Receiving, and Traffic Clerks	1,750	1,780	30	1.8	1,770	\$34,680	High school diploma or	None	Short-term OTJ
43-5081	Stock Clerks and Order Fillers	5,730	6,080	350	6.1	7,770	\$24,190	High school diploma or	None	Short-term OTJ
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordke	190	200	20	8.1	200	\$44,360	High school diploma or	None	Short-term OTJ
43-6011	Executive Secretaries and Executive Administrative Assist	2,230	1,860	-380	-16.9	1,800	\$46,320	High school diploma or	Less than 5 years	None
43-6012	Legal Secretaries	470	380	-90	-19.7	360	\$37,490	High school diploma or	None	Moderate-term OTJ
43-6013	Medical Secretaries	2,640	3,190	550	20.7	3,650	\$33,020	High school diploma or	None	Moderate-term OTJ
43-6014	Secretaries and Administrative Assistants, Except Legal, M	6,390	5,940	-450	-7.1	6,100	\$32,590	High school diploma or	None	Short-term OTJ
43-9011	Computer Operators	50	40	-10	-20.8	40	\$36,130	High school diploma or	None	Moderate-term OTJ
43-9021	Data Entry Keyers	460	360	-90	-20.6	380	\$32,000	High school diploma or	None	Short-term OTJ
43-9041	Insurance Claims and Policy Processing Clerks	720	810	90	12.5	850	\$42,940	High school diploma or	None	Moderate-term OTJ
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Se	220	210	-20	-8.5	220	\$26,840	High school diploma or	None	Short-term OTJ
43-9061	Office Clerks, General	7,610	7,540	-70	-0.9	8,710	\$28,780	High school diploma or	None	Short-term OTJ
43-9071	Office Machine Operators, Except Computer	190	170	-30	-14.5	170	\$29,230	High school diploma or	None	Short-term OTJ
43-9199	Office and Administrative Support Workers, All Other	130	150	20	11.5	160	\$37,680	High school diploma or	None	Short-term OTJ
45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	230	230	0	1.7	350	\$18,420	No formal educational c	None	Short-term OTJ
47-1011	First-Line Supervisors of Construction Trades and Extracti	2,590	2,930	340	13.1	2,960	\$63,560	High school diploma or	5 years or more	None
47-2021	Brickmasons and Blockmasons	200	220	20	10.5	200	\$46,210	High school diploma or	None	Apprenticeship
47-2031	Carpenters	2,350	2,540	200	8.3	2,390	\$40,670	High school diploma or	None	Apprenticeship
47-2051	Cement Masons and Concrete Finishers	1,140	1,290	150	13.0	1,430	\$36,510	No formal educational c	None	Moderate-term OTJ
47-2061	Construction Laborers	3,490	3,930	440	12.5	4,170	\$30,830	No formal educational c	None	Short-term OTJ
47-2071	Paving, Surfacing, and Tamping Equipment Operators	160	180	20	13.6	190	\$35,920	High school diploma or	None	Moderate-term OTJ
47-2073	Operating Engineers and Other Construction Equipment O	1,230	1,400	170	13.5	1,590	\$37,390	High school diploma or	None	Moderate-term OTJ
47-2081	Drywall and Ceiling Tile Installers	440	440	10	1.6	390	\$42,800	No formal educational c	None	Moderate-term OTJ
47-2111	Electricians	1,870	2,060	190	10.2	2,340	\$47,740	High school diploma or	None	Apprenticeship
47-2131	Insulation Workers, Floor, Ceiling, and Wall	180	190	0	1.7	190	\$35,220	No formal educational c	None	Short-term OTJ
47-2132	Insulation Workers, Mechanical	190	210	20	9.5	220	\$36,430	High school diploma or	None	Apprenticeship
47-2141	Painters, Construction and Maintenance	1,180	1,260	80	7.0	1,110	\$34,870	No formal educational c	None	Moderate-term OTJ

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Occupation		Employment		Employment Change		Total Openings	Median Annual Wage, 2018	Education and Training Classification		
Code	Title	2016	2026	Number	Percent			Typical Entry-Level Education ¹	Work Experience in a Related Occupation ²	Typical on-the-job Training ³
47-2151	Pipelayers	50	60	10	22.0	70	\$37,020	No formal educational c	None	Short-term OTJ
47-2152	Plumbers, Pipefitters, and Steamfitters	1,680	1,950	270	15.9	2,140	\$55,490	High school diploma or	None	Apprenticeship
47-2211	Sheet Metal Workers	470	510	50	9.8	550	\$38,540	High school diploma or	None	Apprenticeship
47-2221	Structural Iron and Steel Workers	470	520	50	11.0	570	\$37,460	High school diploma or	None	Apprenticeship
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and T	160	180	20	12.6	250	\$29,100	No formal educational c	None	Short-term OTJ
47-3012	Helpers--Carpenters	70	80	10	13.7	120	\$29,430	No formal educational c	None	Short-term OTJ
47-3013	Helpers--Electricians	380	430	40	11.3	600	\$34,320	High school diploma or	None	Short-term OTJ
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitte	570	680	110	19.7	980	\$35,510	High school diploma or	None	Short-term OTJ
47-4011	Construction and Building Inspectors	470	530	60	12.9	590	\$39,740	High school diploma or	5 years or more	Moderate-term OTJ
47-4031	Fence Erectors	100	110	10	10.4	120	\$28,790	No formal educational c	None	Moderate-term OTJ
47-4041	Hazardous Materials Removal Workers	250	290	40	14.6	360	*	High school diploma or	None	Moderate-term OTJ
47-4051	Highway Maintenance Workers	310	350	40	14.0	370	\$30,960	High school diploma or	None	Moderate-term OTJ
47-4061	Rail-Track Laying and Maintenance Equipment Operators	50	70	20	34.7	70	\$30,040	High school diploma or	None	Moderate-term OTJ
47-4071	Septic Tank Servicicers and Sewer Pipe Cleaners	100	110	10	14.7	140	\$32,650	High school diploma or	None	Moderate-term OTJ
47-5011	Derrick Operators, Oil and Gas	90	100	10	16.5	120	\$54,480	No formal educational c	None	Short-term OTJ
47-5012	Rotary Drill Operators, Oil and Gas	260	300	40	15.7	360	\$45,930	No formal educational c	None	Moderate-term OTJ
47-5013	Service Unit Operators, Oil, Gas, and Mining	400	460	60	15.9	570	\$38,310	No formal educational c	None	Moderate-term OTJ
47-5071	Roustabouts, Oil and Gas	760	890	130	16.8	1,120	\$41,630	No formal educational c	None	Moderate-term OTJ
47-5081	Helpers--Extraction Workers	70	70	0	6.2	90	*	High school diploma or	None	Moderate-term OTJ
49-1011	First-Line Supervisors of Mechanics, Installers, and Repair	1,860	2,020	160	8.4	1,780	\$61,200	High school diploma or	Less than 5 years	None
49-2011	Computer, Automated Teller, and Office Machine Repaire	230	230	0	-1.7	220	\$32,320	Some college, no degre	None	Short-term OTJ
49-2022	Telecommunications Equipment Installers and Repairers,	690	660	-30	-4.8	670	\$49,260	Postsecondary non-deg	None	Moderate-term OTJ
49-2092	Electric Motor, Power Tool, and Related Repairers	60	60	0	6.9	60	\$38,380	High school diploma or	Less than 5 years	Moderate-term OTJ
49-2094	Electrical and Electronics Repairers, Commercial and Indu	250	270	10	4.7	230	\$60,540	Postsecondary non-deg	None	Long-term OTJ
49-2095	Electrical and Electronics Repairers, Powerhouse, Substat	30	30	0	10.7	30	*	Postsecondary non-deg	Less than 5 years	Moderate-term OTJ
49-2098	Security and Fire Alarm Systems Installers	500	550	60	11.3	620	\$44,890	High school diploma or	None	Moderate-term OTJ
49-3011	Aircraft Mechanics and Service Technicians	2,770	2,960	190	7.0	2,350	\$69,380	Postsecondary non-deg	None	None
49-3021	Automotive Body and Related Repairers	400	430	20	6.0	410	\$35,780	High school diploma or	None	Long-term OTJ
49-3023	Automotive Service Technicians and Mechanics	2,380	2,500	130	5.4	2,370	\$35,230	Postsecondary non-deg	None	Short-term OTJ
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	670	740	60	9.2	680	\$41,290	High school diploma or	None	Long-term OTJ
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	430	460	30	6.3	440	\$50,020	High school diploma or	None	Long-term OTJ

TULSA MSA OCCUPATIONAL PROJECTIONS, 2016 AND PROJECTED 2026

Occupation		Employment		Employment Change		Total Openings	Median Annual Wage, 2018	Education and Training Classification		
Code	Title	2016	2026	Number	Percent			Typical Entry-Level Education ¹	Work Experience in a Related Occupation ²	Typical on-the-job Training ³
49-3052	Motorcycle Mechanics	100	100	0	0.0	100	*	Postsecondary non-deg	None	Short-term OTJ
49-3053	Outdoor Power Equipment and Other Small Engine Mech	70	80	10	10.8	90	\$39,820	High school diploma or	None	Moderate-term OTJ
49-3093	Tire Repairers and Changers	420	420	0	0.5	520	\$24,580	High school diploma or	None	Short-term OTJ
49-9011	Mechanical Door Repairers	250	280	20	9.5	220	\$30,030	High school diploma or	None	Moderate-term OTJ
49-9012	Control and Valve Installers and Repairers, Except Mecha	240	260	20	7.0	200	\$57,960	High school diploma or	None	Moderate-term OTJ
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics a	1,110	1,290	180	16.2	1,320	\$38,030	Postsecondary non-deg	None	Long-term OTJ
49-9031	Home Appliance Repairers	180	180	0	-1.7	160	\$35,530	High school diploma or	None	Moderate-term OTJ
49-9041	Industrial Machinery Mechanics	960	1,070	110	11.2	970	\$50,940	High school diploma or	None	Long-term OTJ
49-9043	Maintenance Workers, Machinery	870	970	100	11.2	1,030	\$46,850	High school diploma or	None	Long-term OTJ
49-9051	Electrical Power-Line Installers and Repairers	620	760	140	21.8	670	\$46,910	High school diploma or	None	Long-term OTJ
49-9052	Telecommunications Line Installers and Repairers	680	750	70	10.3	780	\$39,180	High school diploma or	None	Long-term OTJ
49-9062	Medical Equipment Repairers	200	200	0	-0.5	170	\$49,990	Associate's degree	None	Moderate-term OTJ
49-9069	Precision Instrument and Equipment Repairers, All Other	40	40	0	8.3	40	*	High school diploma or	None	Long-term OTJ
49-9071	Maintenance and Repair Workers, General	4,510	4,940	430	9.6	4,980	\$34,670	High school diploma or	None	Moderate-term OTJ
49-9091	Coin, Vending, and Amusement Machine Servicers and R	230	230	10	2.2	260	\$39,330	High school diploma or	None	Short-term OTJ
49-9096	Riggers	40	50	10	15.9	50	\$36,020	High school diploma or	None	Moderate-term OTJ
49-9098	Helpers--Installation, Maintenance, and Repair Workers	590	660	80	12.8	850	\$34,080	High school diploma or	None	Short-term OTJ
49-9099	Installation, Maintenance, and Repair Workers, All Other	740	810	70	9.4	800	\$33,770	High school diploma or	None	Moderate-term OTJ
51-1011	First-Line Supervisors of Production and Operating Work	3,020	3,190	170	5.5	3,150	\$58,450	High school diploma or	Less than 5 years	None
51-2021	Coil Winders, Tapers, and Finishers	30	30	-10	-16.1	30	\$30,650	High school diploma or	None	Moderate-term OTJ
51-2023	Electromechanical Equipment Assemblers	330	270	-50	-16.5	300	*	High school diploma or	None	Moderate-term OTJ
51-2031	Engine and Other Machine Assemblers	40	30	-10	-12.8	30	\$37,760	High school diploma or	None	Moderate-term OTJ
51-2041	Structural Metal Fabricators and Fitters	620	550	-70	-11.3	560	\$33,900	High school diploma or	None	Moderate-term OTJ
51-2092	Team Assemblers	5,140	4,750	-400	-7.7	5,300	*	High school diploma or	None	Moderate-term OTJ
51-2099	Assemblers and Fabricators, All Other	320	290	-30	-10.1	320	*	High school diploma or	None	Moderate-term OTJ
51-3011	Bakers	750	840	80	10.9	1,190	\$22,900	No formal educational c	None	Long-term OTJ
51-3021	Butchers and Meat Cutters	480	510	30	6.9	630	\$22,230	No formal educational c	None	Long-term OTJ
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	30	40	0	6.1	40	*	No formal educational c	None	Short-term OTJ
51-3091	Food and Tobacco Roasting, Baking, and Drying Machine	100	110	10	5.8	130	\$26,820	No formal educational c	None	Moderate-term OTJ
51-3092	Food Batchmakers	370	390	30	7.4	550	\$30,090	High school diploma or	None	Moderate-term OTJ
51-3099	Food Processing Workers, All Other	80	100	10	15.5	110	*	No formal educational c	None	Moderate-term OTJ

TULSA MSA OCCUPATIONAL PROJECTIONS, 2016 AND PROJECTED 2026

Occupation		Employment		Employment Change		Total Openings	Median Annual Wage, 2018	Education and Training Classification		
Code	Title	2016	2026	Number	Percent			Typical Entry-Level Education ¹	Work Experience in a Related Occupation ²	Typical on-the-job Training ³
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	1,230	1,330	100	8.3	1,350	\$40,620	High school diploma or GED	None	Moderate-term OTJ
51-4012	Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic	90	110	20	23.3	110	\$53,310	Postsecondary non-degree certificate or diploma	None	Moderate-term OTJ
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	290	270	-30	-9.3	250	\$39,570	High school diploma or GED	None	Moderate-term OTJ
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	270	250	-20	-6.4	240	\$36,660	High school diploma or GED	None	Moderate-term OTJ
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	880	850	-30	-3.0	940	\$32,010	High school diploma or GED	None	Moderate-term OTJ
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	200	170	-30	-14.4	170	\$37,750	High school diploma or GED	None	Moderate-term OTJ
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	370	350	-20	-4.6	360	\$32,290	High school diploma or GED	None	Moderate-term OTJ
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	230	220	0	-1.8	220	\$43,060	High school diploma or GED	None	Moderate-term OTJ
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	70	60	-10	-14.9	60	\$37,310	High school diploma or GED	None	Moderate-term OTJ
51-4041	Machinists	2,630	2,820	200	7.5	2,920	\$44,120	High school diploma or GED	None	Long-term OTJ
51-4051	Metal-Refining Furnace Operators and Tenders	110	110	0	1.8	110	*	High school diploma or GED	None	Moderate-term OTJ
51-4071	Foundry Mold and Coremakers	100	80	-20	-18.6	80	\$29,080	High school diploma or GED	None	Moderate-term OTJ
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	260	230	-20	-9.0	250	\$29,170	High school diploma or GED	None	Moderate-term OTJ
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	860	890	30	3.5	960	\$40,570	High school diploma or GED	None	Moderate-term OTJ
51-4111	Tool and Die Makers	210	210	0	0.0	200	\$63,170	Postsecondary non-degree certificate or diploma	None	Long-term OTJ
51-4121	Welders, Cutters, Solderers, and Brazers	3,770	4,130	360	9.6	4,490	\$46,360	High school diploma or GED	None	Moderate-term OTJ
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders, Metal and Plastic	440	420	-20	-5.2	430	\$39,170	High school diploma or GED	None	Moderate-term OTJ
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	150	140	-10	-7.5	140	\$38,590	High school diploma or GED	None	Moderate-term OTJ
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	160	150	-10	-7.4	140	\$35,080	High school diploma or GED	None	Moderate-term OTJ
51-4194	Tool Grinders, Filers, and Sharpeners	140	150	0	0.7	180	\$37,310	High school diploma or GED	None	Moderate-term OTJ
51-4199	Metal Workers and Plastic Workers, All Other	90	90	0	-3.2	100	\$44,510	High school diploma or GED	None	Moderate-term OTJ
51-5111	Prepress Technicians and Workers	40	40	-10	-18.6	40	\$42,350	Postsecondary non-degree certificate or diploma	None	None
51-5112	Printing Press Operators	390	370	-20	-5.2	370	\$31,300	High school diploma or GED	None	Moderate-term OTJ
51-5113	Print Binding and Finishing Workers	50	40	0	-8.9	50	\$26,480	High school diploma or GED	None	Moderate-term OTJ
51-6011	Laundry and Dry-Cleaning Workers	650	640	-10	-0.9	860	\$19,980	No formal educational requirements	None	Short-term OTJ
51-6021	Pressers, Textile, Garment, and Related Materials	160	140	-10	-9.0	170	\$18,530	No formal educational requirements	None	Short-term OTJ
51-6052	Tailors, Dressmakers, and Custom Sewers	100	90	-10	-9.6	120	\$30,070	No formal educational requirements	None	Moderate-term OTJ
51-6093	Upholsterers	70	60	0	-4.6	60	*	High school diploma or GED	None	Moderate-term OTJ
51-7011	Cabinetmakers and Bench Carpenters	310	330	20	7.5	350	\$30,900	High school diploma or GED	None	Moderate-term OTJ
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood and Wood Products	60	60	0	5.2	70	\$32,250	High school diploma or GED	None	Moderate-term OTJ
51-7042	Woodworking Machine Setters, Operators, and Tenders, Wood and Wood Products	50	60	0	5.8	60	\$30,340	High school diploma or GED	None	Moderate-term OTJ

TULSA MSA OCCUPATIONAL PROJECTIONS, 2016 AND PROJECTED 2026

Occupation		Employment		Employment Change		Total Openings	Median Annual Wage, 2018	Education and Training Classification		
Code	Title	2016	2026	Number	Percent			Typical Entry-Level Education ¹	Work Experience in a Related Occupation ²	Typical on-the-job Training ³
51-8021	Stationary Engineers and Boiler Operators	120	130	10	4.9	140	\$59,810	High school diploma or	None	Long-term OTJ
51-8031	Water and Wastewater Treatment Plant and System Ope	310	320	10	3.2	270	\$35,440	High school diploma or	None	Long-term OTJ
51-8092	Gas Plant Operators	270	280	10	3.4	280	\$51,080	High school diploma or	None	Long-term OTJ
51-8093	Petroleum Pump System Operators, Refinery Operators, a	580	600	30	4.5	610	\$82,520	High school diploma or	None	Moderate-term OTJ
51-9011	Chemical Equipment Operators and Tenders	310	320	0	1.3	340	\$42,030	High school diploma or	None	Moderate-term OTJ
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Ma	50	50	0	6.5	50	*	High school diploma or	None	Moderate-term OTJ
51-9021	Crushing, Grinding, and Polishing Machine Setters, Opera	110	110	0	-3.6	120	\$29,190	High school diploma or	None	Moderate-term OTJ
51-9022	Grinding and Polishing Workers, Hand	140	110	-20	-16.9	120	\$30,890	No formal educational c	None	Moderate-term OTJ
51-9023	Mixing and Blending Machine Setters, Operators, and Ter	230	240	20	7.6	280	\$46,810	High school diploma or	None	Moderate-term OTJ
51-9032	Cutting and Slicing Machine Setters, Operators, and Tend	60	60	0	1.7	70	\$28,810	High school diploma or	None	Moderate-term OTJ
51-9041	Extruding, Forming, Pressing, and Compacting Machine S	170	170	0	0.6	200	\$32,120	High school diploma or	None	Moderate-term OTJ
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenc	130	130	0	-0.8	120	\$36,910	High school diploma or	None	Moderate-term OTJ
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	2,030	1,930	-90	-4.5	2,250	\$44,030	High school diploma or	None	Moderate-term OTJ
51-9071	Jewelers and Precious Stone and Metal Workers	50	50	0	4.4	50	\$39,160	High school diploma or	None	Long-term OTJ
51-9081	Dental Laboratory Technicians	140	170	30	21.3	190	\$44,610	High school diploma or	None	Moderate-term OTJ
51-9111	Packaging and Filling Machine Operators and Tenders	770	820	50	6.0	950	\$27,630	High school diploma or	None	Moderate-term OTJ
51-9121	Coating, Painting, and Spraying Machine Setters, Operato	850	900	50	6.4	960	\$35,870	High school diploma or	None	Moderate-term OTJ
51-9122	Painters, Transportation Equipment	120	130	10	10.1	140	\$41,250	High school diploma or	None	Moderate-term OTJ
51-9123	Painting, Coating, and Decorating Workers	70	80	0	4.2	80	\$34,850	No formal educational c	None	Moderate-term OTJ
51-9151	Photographic Process Workers and Processing Machine C	130	100	-30	-23.0	140	\$24,500	High school diploma or	None	Short-term OTJ
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operat	50	60	0	5.8	70	\$27,390	High school diploma or	None	Moderate-term OTJ
51-9193	Cooling and Freezing Equipment Operators and Tenders	40	40	0	5.7	40	*	High school diploma or	None	Moderate-term OTJ
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	250	250	10	2.8	260	\$31,680	High school diploma or	None	Long-term OTJ
51-9198	Helpers--Production Workers	1,780	1,970	190	10.9	2,980	\$29,350	High school diploma or	None	Short-term OTJ
53-1031	First-Line Supervisors of Transportation and Material-Mo	860	920	60	7.1	960	\$0	High school diploma or	Less than 5 years	None
53-2012	Commercial Pilots	100	110	0	3.9	100	\$76,760	High school diploma or	None	Moderate-term OTJ
53-2021	Air Traffic Controllers	80	80	10	8.0	80	*	Associate's degree	None	Long-term OTJ
53-3021	Bus Drivers, Transit and Intercity	100	110	0	3.9	130	\$31,620	High school diploma or	None	Moderate-term OTJ
53-3022	Bus Drivers, School or Special Client	1,000	970	-30	-2.6	1,150	\$25,610	High school diploma or	None	Short-term OTJ
53-3031	Driver/Sales Workers	1,680	1,650	-30	-1.9	1,720	\$19,640	High school diploma or	None	Short-term OTJ
53-3032	Heavy and Tractor-Trailer Truck Drivers	5,530	5,930	400	7.3	6,430	\$42,990	Postsecondary non-deg	None	Short-term OTJ

TULSA MSA OCCUPATIONAL PROJECTIONS, 2016 AND PROJECTED 2026

Code	Occupation Title	Employment		Employment Change		Total Openings	Median Annual Wage, 2018	Education and Training Classification		
		2016	2026	Number	Percent			Typical Entry-Level Education ¹	Work Experience in a Related Occupation ²	Typical on-the-job Training ³
53-3033	Light Truck or Delivery Services Drivers	2,790	2,980	190	6.9	3,230	\$33,060	High school diploma or	None	Short-term OTJ
53-3041	Taxi Drivers and Chauffeurs	740	790	50	7.2	820	\$22,780	No formal educational c	None	Short-term OTJ
53-6021	Parking Lot Attendants	110	120	10	9.0	180	\$20,190	No formal educational c	None	Short-term OTJ
53-6031	Automotive and Watercraft Service Attendants	160	170	10	7.5	280	\$22,530	No formal educational c	None	Short-term OTJ
53-7011	Conveyor Operators and Tenders	320	330	10	4.1	440	\$34,390	No formal educational c	None	Short-term OTJ
53-7021	Crane and Tower Operators	250	280	30	10.7	300	\$48,820	High school diploma or	Less than 5 years	Moderate-term OTJ
53-7032	Excavating and Loading Machine and Dragline Operators	390	430	40	10.4	480	\$43,530	High school diploma or	Less than 5 years	Moderate-term OTJ
53-7061	Cleaners of Vehicles and Equipment	1,050	1,160	100	9.8	1,630	\$24,360	No formal educational c	None	Short-term OTJ
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	7,620	8,190	570	7.5	11,250	\$28,040	No formal educational c	None	Short-term OTJ
53-7063	Machine Feeders and Offbearers	150	150	10	3.4	210	\$24,930	No formal educational c	None	Short-term OTJ
53-7064	Packers and Packagers, Hand	550	580	30	4.9	870	\$27,760	No formal educational c	None	Short-term OTJ
53-7073	Wellhead Pumpers	140	160	20	11.9	200	\$51,620	High school diploma or	Less than 5 years	Moderate-term OTJ
53-7081	Refuse and Recyclable Material Collectors	410	470	60	13.5	580	\$31,140	No formal educational c	None	Short-term OTJ
53-7121	Tank Car, Truck, and Ship Loaders	90	90	0	3.5	100	\$36,700	No formal educational c	None	Short-term OTJ

Footnotes:

¹Represents the typical education level needed to enter the occupation.

²Indicates if work experience in a related occupation is commonly considered necessary by employers for entry, or is a commonly accepted substitute for formal types of training.

³OTJ= on-the-job Training, which indicates the typical on-the-job training needed to attain competency in the occupation.

⁴Total, All Occupations include covered employment and self-employed workers. Covered employment data are from the Bureau of Labor Statistics(BLS) Quarterly Census of Employment and Wages(QCEW) program from Oklahoma Employment Security Commission. Self-employed workers data are produced from the projection matrix system based on Oklahoma Occupational Employment Statistics(OES) survey. Employment estimates have been rounded to the nearest 10. Percent change is based on unrounded data.

* Indicates that a wage estimate is not available. Wage data are from the Occupational Employment Statistics program, Oklahoma Employment Security Commission, Research & Analysis Division.

NOTE: For more information about the education, work experience, and OTJ categories assigned to occupations, see https://www.bls.gov/emp/ep_nem_definitions.htm#education

Source: Employment Projections program, Oklahoma Employment Security Commission, Economic Research & Analysis Division.