

# "STEM Occupations" in Central Oklahoma

**Approved and Published: December 2023** 

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#### Telephone Relay Service is available by dialing 711 or (800) 722-0353

#### PURPOSE: To provide a list of STEM occupations in the region.

The Central Oklahoma Workforce Innovation Board (COWIB) is the policy and guidance board for the Workforce Oklahoma system in Central Oklahoma. We are business leaders with a goal to establish a highly skilled, productive workforce in our 9-county area.

The Central Oklahoma Workforce Innovation Board (COWIB) complies with WIOA's Equal Opportunity and Nondiscrimination provisions which prohibit discrimination on the basis of race, color, religion, sex (including pregnancy, childbirth, and related medical conditions, transgender status, and gender identity), national origin (including limited English proficiency), age, disability, political affiliation or belief, or, the basis of citizenship status or participation in a WIOA Title-1 financially assisted program or activity.

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http://www.cowib.org/



# "STEM Occupations" in Central Oklahoma

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#### **Purpose**

One of the measures of contract performance for the COWIB's WIOA Service Provider is:

"Clients Enrolled in STEM Related Training"

This measure is defined as the number of WIOA Title I participants who enter training that is designed to support entry into a STEM Occupation, where "STEM" refers to Science, Technology, Engineering, or Mathematics.

COWIB has developed our own definition of a STEM Occupation. There are two parts:

- 1. An occupation that is classified as "STEM" in the O\*Net Online database: <a href="https://www.onetonline.org/find/stem">https://www.onetonline.org/find/stem</a>
- 2. An occupation that is otherwise recognized by COWIB as a "STEM" occupation.

A complete list of STEM Occupations appear on the following pages.

#### **Browse STEM Occupations**

CODE	OCCUPATION	Identified as STEM
11-3021.00	Computer and Information Systems Managers	O*NET Online
11-9041.00	Architectural and Engineering Managers	O*NET Online
11-9041.01	Biofuels/Biodiesel Technology and Product Development Man	O*NET Online
11-9111.00	Medical and Health Services Managers	O*NET Online
11-9121.00	Natural Sciences Managers	O*NET Online
11-9121.01	Clinical Research Coordinators	O*NET Online
11-9121.02	Water Resource Specialists	O*NET Online
13-1161-01	Search Marketing Strategists	O*NET Online
15-1211.00	Computer Systems Analysts	O*NET Online
15-1211.01	Informatics <b>Health</b> Specialists	O*NET Online
15-1212.00	Information Security Analysts	O*NET Online
15-1221.00	Computer and Information Research Scientists	O*NET Online
15-1231.00	Computer Network Support Specialists	O*NET Online
15-1232.00	Computer User Support Specialists	O*NET Online
15-1241.00	Computer Network Architects	O*NET Online
15-1241.01	Telecommunications Engineering Specialists	O*NET Online
15-1242.00	Database Administrators	O*NET Online
15-1243.00	Database Architects	O*NET Online
15-1243.01	Data Warehousing Specialists	O*NET Online
15-1244.00	Network and Computer Systems Administrators	O*NET Online
15-1251.00	Computer Programmers	O*NET Online
15-2051.01	Business Intelligence Analysts	O*NET Online

15-1252.00	Software Developers,	O*NET Online
15-1253.00	Software Quality Assurance Analyst and Testers	O*NET Online
15-1254.00	Web Developers	O*NET Online
15-1255.01	Video Game Designers	O*NET Online
15-1299.00	Computer Occupations, All Other	O*NET Online
15-1299.01	Web Administrators	O*NET Online
15-1299.02	Geospatial Information Scientists and Technologists	O*NET Online
15-1299.02	Geographic Information Systems Technicians	O*NET Online
15-1299.03	Document Management Specialists	O*NET Online
15-1299.08	Computer Systems Engineers/Architects	O*NET Online
15-1299.09	Information Technology Project Managers	O*NET Online
15-2011.00	Actuaries	O*NET Online
15-2021.00	Mathematicians	O*NET Online
15-2031.00	Operations Research Analysts	O*NET Online
15-2041.00	Statisticians	O*NET Online
15-2041.01	Biostatisticians	O*NET Online
15-2041.02	Clinical Data Managers	O*NET Online
15-2099.00	Mathematical Science Occupations, All Other	O*NET Online
17-1011.00	Architects, Except Landscape and Naval	O*NET Online
17-1012.00	Landscape Architects	O*NET Online
17-1021.00	Cartographers and Photogrammetrists	O*NET Online
17-1022.00	Surveyors	O*NET Online
17-1022.01	Geodetic Surveyors	O*NET Online
17-2011.00	Aerospace Engineers	O*NET Online
17-2021.00	Agricultural Engineers	O*NET Online
17-2031.00	Biomedical Engineers	O*NET Online
17-2041.00	Chemical Engineers	O*NET Online
17-2051.00	Civil Engineers	O*NET Online
17-2051.01	Transportation Engineers	O*NET Online
17-2051.02	Water/Wastewater Engineers	O*NET Online
17-2061.00	Computer Hardware Engineers	O*NET Online
17-2071.00	Electrical Engineers	O*NET Online
17-2072.00	Electronics Engineers, Except Computer	O*NET Online
17-2072.01	Radio Frequency Identification Device Specialists	O*NET Online
17-2081.00	Environmental Engineers	O*NET Online
17-2112.01	Human Factors Engineers and Ergonomists	O*NET Online
17-2121.00	Marine Engineers and Naval Architects	O*NET Online
17-2112.02	Validation Engineers	O*NET Online
17-2112.03	Manufacturing Engineers	O*NET Online
17-2131.00	Materials Engineers	O*NET Online

17-2141.00	Mechanical Engineers	O*NET Online
17-2141.01	Fuel Cell Engineers	O*NET Online
17-2141.02	Automotive Engineers	O*NET Online
17-2151.00	Mining and Geological Engineers, Including Mining Safety	O*NET Online
	Engineers	
17-2161.00	Nuclear Engineers	O*NET Online
17-2171.00	Petroleum Engineers	O*NET Online
17-2199.00	Engineers, All Other	O*NET Online
17-2199.03	Energy Engineers	O*NET Online
17-2199.05	Mechatronics Engineers	O*NET Online
17-2199.06	Microsystems Engineers	O*NET Online
17-2199.07	Photonics Engineers	O*NET Online
17-2199.08	Robotics Engineers	O*NET Online
17-2199.09	Nanosystems Engineers	O*NET Online
17-2199.10	Wind Energy Engineers	O*NET Online
17-2199.11	Solar Energy Systems Engineers	O*NET Online
17-3011.00	Architectural and Civil Drafters	O*NET Online
17-3012.00	Electrical and Electronics Drafters	O*NET Online
17-3013.00	Mechanical Drafters	O*NET Online
17-3019.00	Drafters, All Other	O*NET Online
17-3021.00	Aerospace Engineering and Operations Technicians	O*NET Online
17-3022.00	Civil Engineering Technicians	O*NET Online
17-3023.00	Electrical and Electronic Engineering Technicians	O*NET Online
17-3023.00	Electrical Engineering Technologists	O*NET Online
17-3023.01	Electronics Engineering Technicians	O*NET Online
17-3023.03	Electrical Engineering Technicians	O*NET Online
17-3024.00	Electro-Mechanical Technicians	O*NET Online
17-3024.00	Electromechanical Engineering Technologists	O*NET Online
17-3024.01	Robotics Technicians	O*NET Online
17-3025.00	Environmental Engineering Technicians	O*NET Online
17-3026.00	Industrial Engineering Technicians	O*NET Online
17-3026.00	Industrial Engineering Technologists	O*NET Online
17-3026.00	Manufacturing Engineering Technologists	O*NET Online
17-3027.00	Mechanical Engineering Technologists	O*NET Online
17-3027.00	Mechanical Engineering Technicians	O*NET Online
17-3027.01	Automotive Engineering Technicians	O*NET Online
17-3029.00	Engineering Technicians, Except Drafters, All Other	O*NET Online
17-3029.01	Non-Destructive Testing Specialists	O*NET Online
17-3029.08	Photonics Technicians	O*NET Online

17-3026.00	Manufacturing Production Technicians	O*NET Online
17-3029.00	Fuel Cell Technicians	O*NET Online
17-3026.01	Nanotechnology Engineering Technologists	O*NET Online
17-3026.01	Nanotechnology Engineering Technicians	O*NET Online
17-3031.00	Surveying and Mapping Technicians	O*NET Online
19-1011.00	Animal Scientists	O*NET Online
19-1012.00	Food Scientists and Technologists	O*NET Online
19-1013.00	Soil and Plant Scientists	O*NET Online
19-1021.00	Biochemists and Biophysicists	O*NET Online
19-1029.01	Bioinformatics Scientists	O*NET Online
19-1022.00	Microbiologists	O*NET Online
19-1023.00	Zoologists and Wildlife Biologists	O*NET Online
19-1029.00	Biological Scientists, All Other	O*NET Online
19-1029.01	Bioinformatics Scientists	O*NET Online
19-1029.02	Molecular and Cellular Biologists	O*NET Online
19-1029.03	Geneticists	O*NET Online
19-1031.00	Conservation Scientists	O*NET Online
19-1031.02	Range Managers	O*NET Online
19-1031.03	Park Naturalists	O*NET Online
19-1032.00	Foresters	O*NET Online
19-1041.00	Epidemiologists	O*NET Online
19-1042.00	Medical Scientists, Except Epidemiologists	O*NET Online
19-1099.00	Life Scientists, All Other	O*NET Online
19-2011.00	Astronomers	O*NET Online
19-2012.00	Physicists	O*NET Online
19-2021.00	Atmospheric and Space Scientists	O*NET Online
19-2031.00	Chemists	O*NET Online
19-2032.00	Materials Scientists	O*NET Online
19-2041.00	Environmental Scientists and Specialists, Including Health	O*NET Online
19-2041.01	Climate Change Policy Analysts	O*NET Online
19-2041.02	Environmental Restoration Planners	O*NET Online
19-2041.03	Industrial Ecologists	O*NET Online
19-2042.00	Geoscientists, Except Hydrologists and Geographers	O*NET Online
19-2043.00	Hydrologists	O*NET Online
19-2099.00	Physical Scientists, All Other	O*NET Online
19-2099.01	Remote Sensing Scientists and Technologists	O*NET Online
19-3011.00	Economists	O*NET Online
19-3011.01	Environmental Economists	O*NET Online
19-3022.00	Survey Researchers	O*NET Online
19-3032.00	Industrial-Organizational Psychologists	O*NET Online

19-3033.00	Clinical, Counseling, and School Psychologists	O*NET Online
19-3033.00	Clinical Psychologists	O*NET Online
19-3033.00	Counseling Psychologists	O*NET Online
19-3034.00	School Psychologists	O*NET Online
19-3039.00	Psychologists, All Other	O*NET Online
19-3039.02	Neuropsychologists	O*NET Online
19-3039.03	Clinical Neuropsychologists	O*NET Online
19-3041.00	Sociologists	O*NET Online
19-3051.00	Urban and Regional Planners	O*NET Online
19-3091.00	Anthropologists and Archeologists	O*NET Online
19-3092.00	Geographers	O*NET Online
19-3094.00	Political Scientists	O*NET Online
19-3099.00	Social Scientists and Related Workers, All Other	O*NET Online
19-3099.01	Transportation Planners	O*NET Online
19-4011.00	Agricultural and Food Science Technicians	O*NET Online
19-4012.00	Agricultural Technicians	O*NET Online
19-4012.01	Precision Agriculture Technicians	O*NET Online
19-4013.00	Food Science Technicians	O*NET Online
19-4021.00	Biological Technicians	O*NET Online
19-4031.00	Chemical Technicians	O*NET Online
19-4042.00	Environmental Science and Protection Technicians, Including	O*NET Online
	Health	
19-4043.00	Geological and Petroleum Technicians	O*NET Online
19-4051.00	Nuclear Technicians	O*NET Online
19-4051.02	Nuclear Monitoring Technicians	O*NET Online
19-4061.00	Social Science Research Assistants	O*NET Online
19-4071.00	Forest and Conservation Technicians	O*NET Online
19-4092.00	Forensic Science Technicians	O*NET Online
19-4099.00	Life, Physical, and Social Science Technicians, All Other	O*NET Online
19-4099.01	Quality Control Analysts	O*NET Online
19-4099.03	Remote Sensing Technicians	O*NET Online
25-1021.00	Computer Science Teachers, Postsecondary	O*NET Online
25-1022.00	Mathematical Science Teachers, Postsecondary	O*NET Online
25-1031.00	Architecture Teachers, Postsecondary	O*NET Online
25-1032.00	Engineering Teachers, Postsecondary	O*NET Online
25-1041.00	Agricultural Sciences Teachers, Postsecondary	O*NET Online
25-1042.00	Biological Science Teachers, Postsecondary	O*NET Online
25-1043.00	Forestry and Conservation Science Teachers, Postsecondary	O*NET Online
25-1051.00	Atmospheric, Earth, Marine, and Space Sciences Teachers,	O*NET Online
	Postsecondary	

25-1052.00	Chemistry Teachers, Postsecondary	O*NET Online
25-1053.00	Environmental Science Teachers, Postsecondary	O*NET Online
25-1054.00	Physics Teachers, Postsecondary	O*NET Online
25-1061.00	Anthropology and Archeology Teachers, Postsecondary	O*NET Online
25-1062.00	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	O*NET Online
25-1063.00	Economics Teachers, Postsecondary	O*NET Online
25-1064.00	Geography Teachers, Postsecondary	O*NET Online
25-1065.00	Political Science Teachers, Postsecondary	O*NET Online
25-1066.00	Psychology Teachers, Postsecondary	O*NET Online
25-1067.00	Sociology Teachers, Postsecondary	O*NET Online
25-1069.00	Social Sciences Teachers, Postsecondary, All Other	O*NET Online
25-1071.00	Health Specialties Teachers, Postsecondary	O*NET Online
25-1072.00	Nursing Instructors and Teachers, Postsecondary	O*NET Online
29-1011.00	Chiropractors	O*NET Online
29-1021.00	Dentists, General	O*NET Online
29-1022.00	Oral and Maxillofacial Surgeons	O*NET Online
29-1023.00	Orthodontists	O*NET Online
29-1024.00	Prosthodontists	O*NET Online
29-1029.00	Dentists, All Other Specialists	O*NET Online
29-1031.00	Dietitians and Nutritionists	O*NET Online
29-1041.00	Optometrists	O*NET Online
29-1051.00	Pharmacists	O*NET Online
29-1211.00	Anesthesiologists	O*NET Online
29-1213.00	Dermatologists	O*NET Online
29-1215.00	Family and Medicine Physicians	O*NET Online
29-1216.00	General Internal Medicine Physicians	O*NET Online
29-1217.00	Neurologists	O*NET Online
29-1218.00	Obstetricians and Gynecologists	O*NET Online
29-1221.00	Pediatricians, General	O*NET Online
29-1222.00	Physicians Pathologists	O*NET Online
29-1223.00	Psychiatrists	O*NET Online
29-1224.00	Radiologists	O*NET Online
29-1229.00	Physicians and Surgeons, All Other	O*NET Online
29-1229.01	Allergists and Immunologists	O*NET Online
29-1229.02	Hospitalists	O*NET Online
29-1229.03	Urologists	O*NET Online
29-1229.04	Physical Medicine and Rehabilitation Physicians	O*NET Online
29-1229.05	Preventive Medicine Physicians	O*NET Online
29-1229.06	Sports Medicine Physicians	O*NET Online

29-1247.00	Ophthalmologists	O*NET Online
29-1249.00	Surgeons	O*NET Online
29-1071.00	Physician Assistants	O*NET Online
29-1071.01	Anesthesiologist Assistants	O*NET Online
29-1081.00	Podiatrists	O*NET Online
29-1122.00	Occupational Therapists	O*NET Online
29-1122.01	Low Vision Therapists, Orientation and Mobility Specialists, and	O*NET Online
	Vision Rehabilitation Therapists	
29-1123.00	Physical Therapists	O*NET Online
29-1124.00	Radiation Therapists	O*NET Online
29-1125.00	Recreational Therapists	O*NET Online
29-1126.00	Respiratory Therapists	O*NET Online
29-1127.00	Speech-Language Pathologists	O*NET Online
29-1128.00	Exercise Physiologists	O*NET Online
29-1129.00	Therapists, All Other	O*NET Online
29-1129.01	Art Therapists	O*NET Online
29-1129.02	Music Therapists	O*NET Online
29-1131.00	Veterinarians	O*NET Online
29-1141.00	Registered Nurses	O*NET Online
29-1141.01	Acute Care Nurses	O*NET Online
29-1141.02	Advanced Practice Psychiatric Nurses	O*NET Online
29-1141.03	Critical Care Nurses	O*NET Online
29-1141.04	Clinical Nurse Specialists	O*NET Online
29-1151.00	Nurse Anesthetists	O*NET Online
29-1161.00	Nurse Midwives	O*NET Online
29-1171.00	Nurse Practitioners	O*NET Online
29-1181.00	Audiologists	O*NET Online
29-1292.00	Dental Hygienists	O*NET Online
29-1299.00	Health Diagnosing and Treating Practitioners, All Other	O*NET Online
29-1291.00	Acupuncturists	O*NET Online
29-1299.01	Naturopathic Physicians	O*NET Online
29-1299.02	Orthoptists	O*NET Online
29-2011.00	Medical and Clinical Laboratory Technologists	O*NET Online
29-2011.01	Cytogenetic Technologists	O*NET Online
29-2011.02	Cytotechnologists	O*NET Online
29-2011.04	Histotechnologists and Histologic Technicians	O*NET Online
29-2012.00	Medical and Clinical Laboratory Technicians	O*NET Online
29-2031.00	Cardiovascular Technologists and Technicians	O*NET Online
29-2032.00	Diagnostic Medical Sonographers	O*NET Online

29-2033.00	Nuclear Medicine Technologists	O*NET Online
29-2034.00	Radiologic Technologists	O*NET Online
29-2035.00	Magnetic Resonance Imaging Technologists	O*NET Online
29-2042.00	Emergency Medical Technicians and Paramedics	O*NET Online
29-2051.00	Dietetic Technicians	O*NET Online
29-2052.00	Pharmacy Technicians	O*NET Online
29-2053.00	Psychiatric Technicians	O*NET Online
29-2055.00	Surgical Technologists	O*NET Online
29-2056.00	Veterinary Technologists and Technicians	O*NET Online
29-2057.00	Ophthalmic Medical Technicians	O*NET Online
29-2061.00	Licensed Practical and Licensed Vocational Nurses	O*NET Online
29-2072.00	Medical Records Health Information	O*NET Online
29-2081.00	Opticians, Dispensing	O*NET Online
29-2091.00	Orthotists and Prosthetists	O*NET Online
29-2092.00	Hearing Aid Specialists	O*NET Online
29-2099.00	Health Technologists and Technicians, All Other	O*NET Online
29-2099.01	Neurodiagnostic Technologists	O*NET Online
29-2099.05	Ophthalmic Medical Technologists	O*NET Online
29-5011.00	Occupational Health and Safety Specialists	O*NET Online
29-5012.00	Occupational Health and Safety Technicians	O*NET Online
29.9021.00	Health Information Technologists	O*NET Online
29-9091.00	Athletic Trainers	O*NET Online
29-9092.00	Genetic Counselors	O*NET Online
29-9093.00	Surgical Assistants	O*NET Online
29-9099.00	Healthcare Practitioners and Technical Workers, All Other	O*NET Online
29-9099.01	Midwives	O*NET Online
31-1131.00	Nursing Assistants	O*NET Online
31-2011.00	Occupational Therapy Assistants	O*NET Online
31-2012.00	Occupational Therapy Aides	O*NET Online
31-2021.00	Physical Therapist Assistants	O*NET Online
31-9091.00	Dental Assistants	O*NET Online
31-9092.00	Medical Assistants	O*NET Online
31-9096.00	Veterinary Assistants and Laboratory Animal Caretakers	O*NET Online
31-9097.00	Phlebotomists	O*NET Online
31-9099.01	Speech-Language Pathology Assistants	O*NET Online
31-9099.02	Endoscopy Technicians	O*NET Online
41-4011.00	Sales Representatives, Wholesale and Manufacturing, Technical	O*NET Online
	and Scientific Products	
41-4011.07	Solar Sales Representatives and Assessors	O*NET Online

41-9031.00	Sales Engineers	O*NET Online
43-3031.00	Bookkeeping, Accounting, and Auditing Clerks	O*NET Online
19-1029.01	Bioinformatics Scientists	O*NET Online
47-2031.00	Carpenters	O*NET Online
47-2111.00	Electricians	O*NET Online
49-3011.00	Aircraft Mechanics and Service Technicians	O*NET Online
49-9021.00	Heating, Air Conditioning, and Refrigeration Mechanics and	O*NET Online
	Installers	
49-9051.00	Electrical Power-Line Installers and Repairers	O*NET Online
49-9052.00	Telecommunications Line Installers and Repairers	O*NET Online
49-9062.00	Medical Equipment Repairers	O*NET Online
51-2011.00	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	O*NET Online
51-4011.00	Computer-Controlled Machine Tool Operators, Metal and Plastic	O*NET Online
51-4121.00	Welders, Cutters, Solderers, and Brazers	O*NET Online
51-4121.06	Welders, Cutters, and Welder Fitters	O*NET Online
51-4121.07	Solderers and Brazers Green Occupation	O*NET Online
51-4122.00	Welding, Soldering, and Brazing Machine Setters, Operators, and	O*NET Online
	Tenders	
51-9082.00	Medical Appliance Technicians	O*NET Online
51-9161.00	Computer Numerically Controlled Tool Operators	O*NET Online

#### **Equal Opportunity and Nondiscrimination Statement**

All Recipients, and Sub-recipients / Sub-grantees must comply with WIOA's Equal Opportunity and Nondiscrimination provisions which prohibit discrimination on the basis of race, color, religion, sex (including pregnancy, childbirth, and related medical conditions, transgender status, and gender identity), national origin (including limited English proficiency), age, disability, political affiliation or belief, or, for beneficiaries, applicants, and participants only, on the basis of citizenship status or participation in a WIOA Title-I financially assisted program or activity.

#### Addenda / Revisions

The COWIB Chief Executive Officer is authorized to issue additional instructions, guidance, approvals, and/or forms to further implement the requirements of policy, without making substantive change to the policy, except in situations when a new or updated state and federal guidance is issued.