

Detailed SOC Code	SOC Occupation Title	BLS/OES (100)	Census (163)	CEW, 2010 (96)	CEW, 2011 (85)	Commerce (85)	FLDEO (156)	NSF (116)	O*Net Career Cluster (103)	O*Net STEM Discipline (126)	SOCPC (184)	TWC SWAP (134)
17-2061	Computer Hardware Engineers	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17-2071	Electrical Engineers	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17-2072	Electronics Engineers, Except Computer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17-2081	Environmental Engineers	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17-2112	Industrial Engineers	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17-2121	Marine Engineers and Naval Architects	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17-2131	Materials Engineers	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17-2141	Mechanical Engineers	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17-2151	Mining and Geological Engineers, Including Mining Safety Engineers	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17-2161	Nuclear Engineers	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17-2171	Petroleum Engineers	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17-2199	Engineers, All Other	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17-3011	Architectural and Civil Drafters	✓	✓		✓	✓	✓		✓	✓	✓	
17-3012	Electrical and Electronics Drafters	✓	✓	✓	✓	✓	✓		✓		✓	
17-3013	Mechanical Drafters	✓	✓	✓	✓	✓	✓				✓	
17-3019	Drafters, All Other	✓	✓	✓	✓	✓			✓		✓	
17-3021	Aerospace Engineering and Operations Technicians	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
17-3022	Civil Engineering Technicians	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
17-3023	Electrical and Electronics Engineering Technicians	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17-3024	Electro-Mechanical Technicians	✓	✓	✓	✓	✓	✓	✓	✓		✓	
17-3025	Environmental Engineering Technicians	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
17-3026	Industrial Engineering Technicians	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17-3027	Mechanical Engineering Technicians	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17-3029	Engineering Technicians, Except Drafters, All Other	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17-3031	Surveying and Mapping Technicians	✓	✓	✓	✓	✓	✓	✓	✓		✓	
19-1011	Animal Scientists	✓	✓	✓	✓	✓	✓	✓		✓	✓	
19-1012	Food Scientists and Technologists	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
19-1013	Soil and Plant Scientists	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
19-1021	Biochemists and Biophysicists	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
19-1022	Microbiologists	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
19-1023	Zoologists and Wildlife Biologists	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
19-1029	Biological Scientists, All Other	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
19-1031	Conservation Scientists	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
19-1032	Foresters	✓	✓	✓	✓	✓		✓		✓	✓	✓
19-1041	Epidemiologists	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
19-1042	Medical Scientists, Except Epidemiologists	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
19-1099	Life Scientists, All Other	✓	✓	✓	✓			✓	✓		✓	
19-2011	Astronomers	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
19-2012	Physicists	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
19-2021	Atmospheric and Space Scientists	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
19-2031	Chemists	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
19-2032	Materials Scientists	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
19-2041	Environmental Scientists and Specialists, Including Health	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
19-2042	Geoscientists, Except Hydrologists and Geographers	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
19-2043	Hydrologists	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
19-2099	Physical Scientists, All Other	✓	✓	✓	✓	✓	✓	✓	✓		✓	
19-3011	Economists		✓	✓			✓	✓	✓		✓	✓
19-3022	Survey Researchers		✓	✓			✓	✓	✓		✓	✓
19-3031	Clinical, Counseling, and School Psychologists		✓	✓				✓		✓	✓	✓
19-3032	Industrial-Organizational Psychologists		✓	✓			✓	✓		✓	✓	
19-3039	Psychologists, All Other		✓	✓				✓	✓	✓	✓	
19-3041	Sociologists		✓	✓				✓	✓		✓	

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19-3051	Urban and Regional Planners		✓	✓				✓			✓	
19-3091	Anthropologists and Archeologists		✓	✓				✓	✓		✓	
19-3092	Geographers		✓	✓			✓	✓	✓		✓	
19-3093	Historians		✓	✓				✓	✓			
19-3094	Political Scientists		✓	✓				✓	✓		✓	
19-3099	Social Scientists and Related Workers, All Other		✓	✓				✓	✓	✓	✓	
19-4011	Agricultural and Food Science Technicians	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓
19-4021	Biological Technicians	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
19-4031	Chemical Technicians	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
19-4041	Geological and Petroleum Technicians	✓	✓	✓	✓	✓	✓	✓			✓	✓
19-4051	Nuclear Technicians	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
19-4061	Social Science Research Assistants		✓	✓	✓	✓		✓	✓		✓	
19-4091	Environmental Science and Protection Technicians, Including Health	✓	✓	✓	✓	✓		✓		✓	✓	✓
19-4092	Forensic Science Technicians	✓	✓	✓	✓	✓		✓			✓	✓
19-4093	Forest and Conservation Technicians	✓	✓	✓	✓	✓		✓		✓	✓	
19-4099	Life, Physical, and Social Science Technicians, All Other	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓
21-1091	Health Educators											✓
21-1099	Community and Social Service Specialists, All Other								✓			
25-1011	Business Teachers, Postsecondary									✓		
25-1021	Computer Science Teachers, Postsecondary	✓					✓	✓		✓	✓	✓
25-1022	Mathematical Science Teachers, Postsecondary	✓					✓	✓	✓	✓	✓	✓
25-1031	Architecture Teachers, Postsecondary	✓					✓	✓	✓	✓	✓	✓
25-1032	Engineering Teachers, Postsecondary	✓					✓	✓	✓	✓	✓	✓
25-1041	Agricultural Sciences Teachers, Postsecondary	✓					✓	✓		✓	✓	✓
25-1042	Biological Science Teachers, Postsecondary	✓					✓	✓	✓	✓	✓	✓
25-1043	Forestry and Conservation Science Teachers, Postsecondary	✓					✓	✓			✓	
25-1051	Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary	✓					✓	✓	✓	✓	✓	✓
25-1052	Chemistry Teachers, Postsecondary	✓					✓	✓	✓	✓	✓	✓
25-1053	Environmental Science Teachers, Postsecondary	✓					✓	✓		✓	✓	
25-1054	Physics Teachers, Postsecondary	✓					✓	✓	✓	✓	✓	✓
25-1061	Anthropology and Archeology Teachers, Postsecondary							✓	✓		✓	
25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary							✓	✓		✓	
25-1063	Economics Teachers, Postsecondary						✓	✓	✓		✓	✓
25-1064	Geography Teachers, Postsecondary							✓	✓		✓	
25-1065	Political Science Teachers, Postsecondary							✓	✓		✓	
25-1066	Psychology Teachers, Postsecondary							✓		✓	✓	✓
25-1067	Sociology Teachers, Postsecondary							✓			✓	
25-1069	Social Sciences Teachers, Postsecondary, All Other							✓	✓		✓	
25-1071	Health Specialties Teachers, Postsecondary						✓	✓	✓	✓	✓	✓
25-1072	Nursing Instructors and Teachers, Postsecondary						✓	✓			✓	✓
25-1125	History Teachers, Postsecondary								✓			
25-1126	Philosophy and Religion Teachers, Postsecondary								✓			
25-1192	Home Economics Teachers, Postsecondary									✓		
25-1194	Vocational Education Teachers, Postsecondary								✓			
25-4011	Archivists								✓			
25-4012	Curators								✓			
25-4013	Museum Technicians and Conservators								✓			
25-9021	Farm and Home Management Advisors									✓		
25-9099	Education, Training, and Library Workers, All Other								✓			
27-1014	Multimedia Artists and Animators											✓
27-1021	Commercial and Industrial Designers						✓					

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27-1024	Graphic Designers									✓		
27-3042	Technical Writers								✓			
27-4012	Broadcast Technicians						✓					
27-4014	Sound Engineering Technicians						✓					
27-4031	Camera Operators, Television, Video, and Motion Picture						✓					
27-4032	Film and Video Editors						✓					
29-1011	Chiropractors		✓								✓	✓
29-1021	Dentists, General		✓				✓				✓	✓
29-1022	Oral and Maxillofacial Surgeons		✓				✓				✓	
29-1023	Orthodontists		✓				✓				✓	✓
29-1024	Prosthodontists		✓				✓				✓	
29-1029	Dentists, All Other Specialists		✓								✓	
29-1031	Dietitians and Nutritionists		✓				✓		✓	✓	✓	✓
29-1041	Optometrists		✓				✓				✓	✓
29-1051	Pharmacists		✓				✓				✓	✓
29-1061	Anesthesiologists		✓				✓				✓	✓
29-1062	Family and General Practitioners		✓				✓		✓		✓	✓
29-1063	Internists, General		✓				✓				✓	✓
29-1064	Obstetricians and Gynecologists		✓				✓				✓	✓
29-1065	Pediatricians, General		✓				✓				✓	✓
29-1066	Psychiatrists		✓				✓				✓	✓
29-1067	Surgeons		✓				✓				✓	✓
29-1069	Physicians and Surgeons, All Other		✓				✓				✓	✓
29-1071	Physician Assistants		✓				✓				✓	✓
29-1081	Podiatrists		✓				✓				✓	✓
29-1122	Occupational Therapists		✓								✓	✓
29-1123	Physical Therapists		✓								✓	✓
29-1124	Radiation Therapists		✓								✓	✓
29-1125	Recreational Therapists		✓								✓	✓
29-1126	Respiratory Therapists		✓				✓				✓	✓
29-1127	Speech-Language Pathologists		✓								✓	✓
29-1128	Exercise Physiologists		✓				✓				✓	✓
29-1129	Therapists, All Other		✓								✓	
29-1131	Veterinarians		✓				✓				✓	✓
29-1141	Registered Nurses		✓				✓				✓	
29-1151	Nurse Anesthetists		✓				✓				✓	
29-1161	Nurse Midwives		✓				✓				✓	
29-1171	Nurse Practitioners		✓				✓				✓	
29-1181	Audiologists		✓								✓	✓
29-1199	Health Diagnosing and Treating Practitioners, All Other		✓				✓				✓	✓
29-2011	Medical and Clinical Laboratory Technologists		✓				✓				✓	✓
29-2012	Medical and Clinical Laboratory Technicians		✓				✓				✓	✓
29-2021	Dental Hygienists		✓				✓				✓	✓
29-2031	Cardiovascular Technologists and Technicians		✓				✓				✓	✓
29-2032	Diagnostic Medical Sonographers		✓								✓	✓
29-2033	Nuclear Medicine Technologists		✓							✓	✓	✓
29-2034	Radiologic Technologists		✓								✓	
29-2035	Magnetic Resonance Imaging Technologists		✓								✓	
29-2041	Emergency Medical Technicians and Paramedics		✓				✓				✓	
29-2051	Dietetic Technicians		✓						✓	✓	✓	
29-2052	Pharmacy Technicians		✓								✓	
29-2053	Psychiatric Technicians		✓								✓	
29-2054	Respiratory Therapy Technicians		✓				✓				✓	✓

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29-2055	Surgical Technologists		✓								✓	
29-2056	Veterinary Technologists and Technicians		✓								✓	✓
29-2057	Ophthalmic Medical Technicians		✓								✓	
29-2061	Licensed Practical and Licensed Vocational Nurses		✓								✓	
29-2071	Medical Records and Health Information Technicians		✓								✓	✓
29-2081	Opticians, Dispensing		✓								✓	
29-2091	Orthotists and Prosthetists		✓								✓	✓
29-2092	Hearing Aid Specialists		✓				✓				✓	
29-2099	Health Technologists and Technicians, All Other		✓								✓	
29-9011	Occupational Health and Safety Specialists		✓								✓	
29-9012	Occupational Health and Safety Technicians		✓								✓	
29-9091	Athletic Trainers		✓								✓	
29-9092	Genetic Counselors		✓				✓				✓	
29-9099	Healthcare Practitioners and Technical Workers, All Other		✓				✓				✓	
31-2011	Occupational Therapy Assistants											✓
31-2021	Physical Therapist Assistants											✓
33-3031	Fish and Game Wardens									✓		
35-1012	First-Line Supervisors of Food Preparation and Serving Workers									✓		
35-2012	Cooks, Institution and Cafeteria									✓		
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	✓									✓	
41-9031	Sales Engineers	✓	✓			✓	✓				✓	
43-9111	Statistical Assistants						✓		✓	✓		✓
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers									✓		
45-2021	Animal Breeders									✓		
45-3011	Fishers and Related Fishing Workers									✓		
45-4011	Forest and Conservation Workers									✓		
45-4021	Fallers									✓		
45-4022	Logging Equipment Operators									✓		
45-4023	Log Graders and Scalers									✓		
49-2011	Computer, Automated Teller, and Office Machine Repairers						✓					
49-2021	Radio, Cellular, and Tower Equipment Installers and Repairs						✓					
49-2091	Avionics Technicians									✓		
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment						✓					
49-2097	Electronic Home Entertainment Equipment Installers and Repairers						✓					
49-3011	Aircraft Mechanics and Service Technicians									✓		
49-3023	Automotive Service Technicians and Mechanics									✓		
49-9044	Millwrights						✓					
49-9062	Medical Equipment Repairers						✓					
49-9081	Wind Turbine Service Technicians									✓		
51-2023	Electromechanical Equipment Assemblers									✓		
51-3092	Food Batchmakers									✓		
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic											✓
51-4012	Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic						✓			✓		✓
51-4111	Tool and Die Makers						✓					
51-5111	Prepress Technicians and Workers						✓					
51-8011	Nuclear Power Reactor Operators						✓					

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51-8091	Chemical Plant and System Operators									✓		
51-9011	Chemical Equipment Operators and Tenders									✓		
53-2011	Airline Pilots, Copilots, and Flight Engineers											✓
53-6041	Traffic Technicians						✓					
53-6051	Transportation Inspectors									✓		

* Numbers in parentheses indicates total occupations considered STEM by each group