

19-1011 Animal Scientists



Conduct research in the genetics, nutrition, reproduction, growth, and development of domestic farm animals. *Example: Dairy Scientist*

Training Category: Bachelor's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
551 Management of Companies and Enterprises	n	n

19-1012 Food Scientists and Technologists



Use chemistry, microbiology, engineering, and other sciences to study the principles underlying the processing and deterioration of foods; analyze food content to determine levels of vitamins, fat, sugar, and protein. *Example: Food Safety Scientist*

Training Category: Bachelor's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
454 Nonstore Retailers	n	n
311 Food Manufacturing	n	n

19-1013 Soil and Plant Scientists



Conduct research in breeding, physiology, production, yield, and management of crops and agricultural plants, their growth in soils, and control of pests; or study the chemical, physical, biological, and mineralogical composition of soils as they relate to plant or crop growth. May classify and map soils and investigate effects of alternative practices on soil and crop productivity. *Example: Horticulturalist*

Training Category: Bachelor's | none | none

2017 Average Wage:	\$38.37
2016 Estimated Employment:	29
2026 Projected Employment:	32
Growth Rate, 2016-2026:	10.3%
Annual Openings:	3

Industry	2016 Share	2026 Share
Federal Government, Excluding Post Office	31.0%	28.1%
State Government, excl. Education and Hospitals	3.5%	3.1%
Self-employed Workers	3.5%	6.3%
5417 Scientific Research and Development Services	n	n
5617 Services to Buildings and Dwellings	n	n
6113 Colleges and Universities	n	n

19-1021 Biochemists and Biophysicists



Study the chemical composition and physical properties of living cells and organisms, their electrical and mechanical energy, and related phenomena. *Examples: Clinical Biochemist, Physical Biochemist*

Training Category: Doctorate/Prof | none | none

2017 Average Wage:	\$44.87
2016 Estimated Employment:	115
2026 Projected Employment:	134
Growth Rate, 2016-2026:	16.5%
Annual Openings:	12

Industry	2016 Share	2026 Share
5417 Scientific Research and Development Services	70.4%	70.2%
Self-employed Workers	2.6%	3.0%
325 Chemical Manufacturing	n	n
6113 Colleges and Universities	n	n
621 Ambulatory Health Care Services	n	n

19-1022 Microbiologists



Investigate the growth, structure, development, and other characteristics of microscopic organisms, such as bacteria, algae, or fungi. Include medical microbiologists who study the relationship between organisms and disease or the effects of antibiotics on microorganisms. *Examples: Bacteriologist; Virologist*

Training Category: Bachelor's | none | none

2017 Average Wage:	\$37.06
2016 Estimated Employment:	86
2026 Projected Employment:	90
Growth Rate, 2016-2026:	4.7%
Annual Openings:	8

Industry	2016 Share	2026 Share
State Government, excl. Education and Hospitals	48.8%	46.7%
Federal Government, Excluding Post Office	2.3%	2.2%
Self-employed Workers	2.3%	2.2%
339 Miscellaneous Manufacturing	n	n
5417 Scientific Research and Development Services	n	n
6113 Colleges and Universities	n	n

19-1023 Zoologists and Wildlife Biologists



Study the origins, behavior, diseases, genetics, and life processes of animals and wildlife. May specialize in wildlife research and management, including the collection and analysis of biological data to determine the environmental effects of present and potential use of land and water areas. *Example: Ornithologist*

Training Category: Bachelor's | none | none

2017 Average Wage:	\$28.92
2016 Estimated Employment:	134
2026 Projected Employment:	143
Growth Rate, 2016-2026:	6.7%
Annual Openings:	13

Industry	2016 Share	2026 Share
813 Membership Organizations	46.3%	49.7%
State Government, excl. Education and Hospitals	38.8%	36.4%
Federal Government, Excluding Post Office	10.5%	9.8%
Self-employed Workers	0.8%	0.7%
5417 Scientific Research and Development Services	n	n
712 Museums, Historical Sites, and Similar Institutions	n	n

19-1029 Biological Scientists, All Other



All biological scientists not listed separately. *Examples: Geneticist; Paleobotanist; Plant Taxonomist*

Training Category: Bachelor's | none | none

2017 Average Wage:	\$47.98
2016 Estimated Employment:	95
2026 Projected Employment:	102
Growth Rate, 2016-2026:	7.4%
Annual Openings:	9

Industry	2016 Share	2026 Share
Federal Government, Excluding Post Office	37.9%	35.3%
Self-employed Workers	1.1%	1.0%
325 Chemical Manufacturing	n	n
425 Wholesale Electronic Markets and Agents/Brokers	n	n
5417 Scientific Research and Development Services	n	n
622 Hospitals	n	n

19-1031 Conservation Scientists



Manage, improve, and protect natural resources to maximize their use without damaging the environment. *Examples: Range Manager; Conservation Officer*

Training Category: Bachelor's | none | none

2017 Average Wage:	\$36.77
2016 Estimated Employment:	53
2026 Projected Employment:	57
Growth Rate, 2016-2026:	7.6%
Annual Openings:	4

Industry	2016 Share	2026 Share
Federal Government, Excluding Post Office	56.6%	52.6%
Local Government, Excluding Education	3.8%	5.3%
State Government, excl. Education and Hospitals	1.9%	1.8%
Self-employed Workers	1.9%	1.8%
5413 Architectural and Engineering Services	n	n
813 Membership Organizations	n	n

19-1032 Foresters



Manage forested lands for economic, recreational, and conservation purposes. *Examples: Forest Ecologist; Timber Management Specialist*

Training Category: Bachelor's | none | none

2017 Average Wage:	\$27.28
2016 Estimated Employment:	94
2026 Projected Employment:	103
Growth Rate, 2016-2026:	9.6%
Annual Openings:	9

Industry	2016 Share	2026 Share
Federal Government, Excluding Post Office	16.0%	14.6%
State Government, excl. Education and Hospitals	19.2%	18.5%
Local Government, Excluding Education	2.1%	1.9%
113 Forestry and Logging	n	n
523 Financial Investment and Related Activities	n	n
813 Membership Organizations	n	n

19-1041 Epidemiologists



Investigate and describe the determinants and distribution of disease, disability, and other health outcomes and develop the means for prevention and control. *Examples: Epidemiology Investigator*

Training Category: Master's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
6113 Colleges and Universities	n	n

19-1042 Medical Scientists, Except Epidemiologists



Conduct research dealing with the understanding of human diseases and the improvement of human health. Engage in clinical investigation or other research, production, technical writing, or related activities. Include medical scientists such as physicians, dentists, public health specialists, pharmacologists, and medical pathologists. Exclude practitioners who provide medical or dental care or dispense drugs. *Examples: Cancer Researcher; Toxicologist; Virologist*

Training Category: Doctorate/Prof | none | none

2017 Average Wage:	\$42.81
2016 Estimated Employment:	375
2026 Projected Employment:	411
Growth Rate, 2016-2026:	9.6%
Annual Openings:	36

Industry	2016 Share	2026 Share
State Government, excl. Education and Hospitals	n	n
621 Ambulatory Health Care Services	n	n
622 Hospitals	n	n
5417 Scientific Research and Development Services	n	n
5419 Other Professional, Scientific, and Technical Services	n	n
6113 Colleges and Universities	n	n

19-1099 Life Scientists, All Other



All life scientists not listed separately *Example: Life Science Taxonomist*

Training Category: Bachelor's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
339 Miscellaneous Manufacturing	n	n
5413 Architectural and Engineering Services	n	n
5417 Scientific Research and Development Services	n	n

19-2011 Astronomers



Observe, research, and interpret celestial and astronomical phenomena to increase basic knowledge and apply such information to practical problems. *Example: Astrophysicist*

Training Category: Doctorate/Prof | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
6113 Colleges and Universities	n	n

19-2012 Physicists



Conduct research into the phases of physical phenomena, develop theories and laws on the basis of observation and experiments, and devise methods to apply laws and theories to industry and other fields. *Examples: Fluid Dynamicist; Rheologist; Thermodynamicist*

Training Category: Doctorate/Prof | none | none

2017 Average Wage:	\$65.71
2016 Estimated Employment:	76
2026 Projected Employment:	81
Growth Rate, 2016-2026:	6.6%
Annual Openings:	6

Industry	2016 Share	2026 Share
5413 Architectural and Engineering Services	29.0%	28.4%
State Government, excl. Education and Hospitals	13.2%	12.4%
334 Computer and Electronic Product Manufacturing	n	n
5416 Management and Technical Consulting Services	n	n
6113 Colleges and Universities	n	n
622 Hospitals	n	n

19-2021 Atmospheric and Space Scientists



Investigate atmospheric phenomena and interpret meteorological data gathered by surface and air stations, satellites, and radar to prepare reports and forecasts for public and other uses. Include weather analysts and forecasters whose functions require the detailed knowledge of a meteorologist. *Examples: Meteorologist*

Training Category: Bachelor's | none | none

2017 Average Wage:	\$38.66
2016 Estimated Employment:	74
2026 Projected Employment:	87
Growth Rate, 2016-2026:	17.6%
Annual Openings:	7

Industry	2016 Share	2026 Share
6113 Colleges and Universities	35.1%	29.9%
5419 Other Professional, Scientific, and Technical Services	28.4%	33.3%
Federal Government, Excluding Post Office	5.4%	4.6%
5416 Management and Technical Consulting Services	n	n
5417 Scientific Research and Development Services	n	n

19-2031 Chemists



Conduct qualitative and quantitative chemical analyses or chemical experiments in laboratories for quality or process control or to develop new products or knowledge. *Examples: Inorganic Chemist; Chemical Analyst*

Training Category: Bachelor's | none | none

2017 Average Wage:	\$31.45
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
221 Utilities	n	n
325 Chemical Manufacturing	n	n
334 Computer and Electronic Product Manufacturing	n	n
339 Miscellaneous Manufacturing	n	n
5413 Architectural and Engineering Services	n	n
811 Repair and Maintenance	n	n

19-2032 Materials Scientists



Research and study the structures and chemical properties of various natural and manmade materials, including metals, alloys, rubber, ceramics, semiconductors, polymers, and glass. Determine ways to strengthen or combine materials or develop new materials with new or specific properties for use in a variety of products and applications. *Examples: Ceramics Scientists, Metallurgical Scientists*

Training Category: Bachelor's | none | none

2017 Average Wage:	\$40.54
2016 Estimated Employment:	71
2026 Projected Employment:	74
Growth Rate, 2016-2026:	4.2%
Annual Openings:	6

Industry	2016 Share	2026 Share
323 Printing and Related Support Activities	n	n
332 Fabricated Metal Product Manufacturing	n	n
334 Computer and Electronic Product Manufacturing	n	n
335 Electrical Equipment and Appliance Manufacturing	n	n
425 Wholesale Electronic Markets and Agents/Brokers	n	n
6113 Colleges and Universities	n	n

19-2041 Environmental Scientists and Specialists, Including Health



Conduct research or perform investigation for the purpose of identifying, abating, or eliminating sources of pollutants or hazards that affect either the environment or the health of the population. *Examples: Environmental Analyst; Water Pollution Specialist*

Training Category: Bachelor's | none | none

2017 Average Wage:	\$36.81
2016 Estimated Employment:	442
2026 Projected Employment:	492
Growth Rate, 2016-2026:	11.3%
Annual Openings:	47

Industry	2016 Share	2026 Share
State Government, excl. Education and Hospitals	41.6%	38.0%
5416 Management and Technical Consulting Services	30.1%	34.4%
5413 Architectural and Engineering Services	11.3%	11.2%
5417 Scientific Research and Development Services	n	n
6113 Colleges and Universities	n	n
Local Government, Excluding Education	n	n

19-2042 Geoscientists, Except Hydrologists and Geographers



Study the composition, structure, and other physical aspects of the earth. *Examples: Oceanographer; Paleontologist*

Training Category: Bachelor's | none | none

2017 Average Wage:	\$41.10
2016 Estimated Employment:	95
2026 Projected Employment:	104
Growth Rate, 2016-2026:	9.5%
Annual Openings:	10

Industry	2016 Share	2026 Share
5413 Architectural and Engineering Services	50.5%	51.0%
5416 Management and Technical Consulting Services	13.7%	15.4%
Federal Government, Excluding Post Office	10.5%	9.6%
State Government, excl. Education and Hospitals	5.3%	4.8%
5417 Scientific Research and Development Services	n	n
6113 Colleges and Universities	n	n

19-2043 Hydrologists



Research the distribution, circulation, and physical properties of underground and surface waters; study the form and intensity of precipitation, its rate of infiltration into the soil, movement through the earth, and its return to the ocean and atmosphere. *Example: Hydrogeologist*

Training Category: Bachelor's | none | none

2017 Average Wage:	\$42.21
2016 Estimated Employment:	63
2026 Projected Employment:	68
Growth Rate, 2016-2026:	7.9%
Annual Openings:	5

Industry	2016 Share	2026 Share
State Government, excl. Education and Hospitals	39.7%	36.8%
Federal Government, Excluding Post Office	20.6%	19.1%
Self-employed Workers	1.6%	1.5%
5413 Architectural and Engineering Services	n	n
5416 Management and Technical Consulting Services	n	n

19-2099 Physical Scientists, All Other



All physical scientists not listed separately.

Training Category: Bachelor's | none | none

2017 Average Wage:	\$43.53
2016 Estimated Employment:	80
2026 Projected Employment:	81
Growth Rate, 2016-2026:	1.3%
Annual Openings:	6

Industry	2016 Share	2026 Share
Federal Government, Excluding Post Office	61.3%	60.5%
Self-employed Workers	7.5%	8.6%
334 Computer and Electronic Product Manufacturing	n	n
335 Electrical Equipment and Appliance Manufacturing	n	n
425 Wholesale Electronic Markets and Agents/Brokers	n	n
5417 Scientific Research and Development Services	n	n

19-3011 Economists



Conduct research, prepare reports, or formulate plans to aid in solution of economic problems arising from production and distribution of goods and services. May collect and process economic and statistical data using econometric and sampling techniques. *Examples: Econometrician; Economic Research Analyst; Industrial Economist*

Training Category: Master's | none | none

2017 Average Wage:	\$36.12
2016 Estimated Employment:	73
2026 Projected Employment:	72
Growth Rate, 2016-2026:	-1.4%
Annual Openings:	5

Industry	2016 Share	2026 Share
5417 Scientific Research and Development Services	28.8%	25.0%
State Government, excl. Education and Hospitals	20.6%	20.8%
6113 Colleges and Universities	12.3%	12.5%
Self-employed Workers	2.7%	4.2%
425 Wholesale Electronic Markets and Agents/Brokers	n	n
523 Financial Investment and Related Activities	n	n

19-3022 Survey Researchers



Design or conduct surveys. May supervise interviewers who conduct the survey in person or over the telephone. May present survey results to client. *Example: Pollster*

Training Category: Master's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
511 Publishing Industries (except Internet)	n	n
5419 Other Professional, Scientific, and Technical Services	n	n

19-3031 Clinical, Counseling, and School Psychologists



Diagnose and treat mental disorders; learning disabilities; and cognitive, behavioral, and emotional problems using individual, child, family, and group therapies. May design and implement behavior modification programs. *Examples: Vocational Psychologist; Child Psychologist*

Training Category: Doctorate/Prof | none | Intern/Residency

2017 Average Wage:	\$35.19
2016 Estimated Employment:	488
2026 Projected Employment:	546
Growth Rate, 2016-2026:	11.9%
Annual Openings:	39

Industry	2016 Share	2026 Share
621 Ambulatory Health Care Services	33.2%	35.5%
6111 Elementary and Secondary Schools	27.7%	25.1%
Self-employed Workers	21.7%	22.5%
6113 Colleges and Universities	5.1%	4.8%
623 Nursing and Residential Care Facilities	3.7%	3.9%
622 Hospitals	2.7%	2.4%

19-3039 Psychologists, All Other



All psychologists not listed separately. *Examples: Social Psychologist; Psychometrist*

Training Category: Master's | none | Intern/Residency

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
622 Hospitals	n	n
Federal Government, Excluding Post Office	n	n

19-3041 Sociologists



Study human society and social behavior by examining the groups and social institutions that people form, as well as various social, religious, political, and business organizations. May study the behavior and interaction of groups, trace their origin and growth, and analyze the influence of group activities on individual members. *Social Scientist, Sociologist, Study Director*

Training Category: Master's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
6113 Colleges and Universities	n	n

19-3051 Urban and Regional Planners



Develop comprehensive plans and programs for use of land and physical facilities of local jurisdictions, such as towns, cities, counties, and metropolitan areas. *Example: City Planner*

Training Category: Master's | none | none

2017 Average Wage:	\$30.64
2016 Estimated Employment:	182
2026 Projected Employment:	201
Growth Rate, 2016-2026:	10.4%
Annual Openings:	18

Industry	2016 Share	2026 Share
Local Government, Excluding Education	86.3%	86.1%
State Government, excl. Education and Hospitals	9.9%	10.0%
Federal Government, Excluding Post Office	0.6%	0.5%
5413 Architectural and Engineering Services	n	n
5416 Management and Technical Consulting Services	n	n

19-3091 Anthropologists and Archeologists



Study the origin, development, and behavior of humans. May study the way of life, language, or physical characteristics of existing people in various parts of the world. May engage in systematic recovery and examination of material evidence, such as tools or pottery remaining from past human cultures, in order to determine the history, customs, and living habits of earlier civilizations. *Example: Research Anthropologist*

Training Category: Master's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
5416 Management and Technical Consulting Services	n	n
6113 Colleges and Universities	n	n
712 Museums, Historical Sites, and Similar Institutions	n	n
Federal Government, Excluding Post Office	n	n

19-3092 Geographers



Study the nature and use of areas of the Earth's surface, relating and interpreting interactions of physical and cultural phenomena. Conduct research on physical aspects of a region, including land forms, climates, soils, plants, and animals, and conduct research on the spatial implications of human activities within a given area, including social characteristics, economic activities, and political organization, as well as researching interdependence between regions at scales ranging from local to global.

Training Category: Bachelor's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Federal Government, Excluding Post Office	n	n

19-3093 Historians



Research, analyze, record, and interpret the past as recorded in sources, such as government and institutional records, newspapers and other periodicals, photographs, interviews, films, and unpublished manuscripts, such as personal diaries and letters. *Example: Genealogist*

Training Category: Master's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
State Government, excl. Education and Hospitals	n	n

19-3094 Political Scientists



Study the origin, development, and operation of political systems. Research a wide range of subjects, such as relations between the United States and foreign countries, the beliefs and institutions of foreign nations, or the politics of small towns or a major metropolis. May study topics, such as public opinion, political decision making, and ideology. May analyze the structure and operation of governments, as well as various political entities. May conduct public opinion surveys, analyze election results, or analyze public documents. *Examples: Political Consultant, Political Research Scientist*

Training Category: Master's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
6113 Colleges and Universities	n	n
Federal Government, Excluding Post Office	n	n
State Government, excl. Education and Hospitals	n	n

19-3099 Social Scientists and Related Workers, All Other



All social scientists and related workers not listed separately. *Examples: Ethnologist; Linguist; Philologist*

Training Category: Bachelor's | none | none

2017 Average Wage:	\$38.38
2016 Estimated Employment:	45
2026 Projected Employment:	48
Growth Rate, 2016-2026:	6.7%
Annual Openings:	4

Industry	2016 Share	2026 Share
Federal Government, Excluding Post Office	86.7%	81.3%
Self-employed Workers	n	n
6117 Educational Support Services	n	n

19-4011 Agricultural and Food Science Technicians



Work with agricultural scientists in food, fiber, and animal research, production, and processing; assist with animal breeding and nutrition work; under supervision, conduct tests and experiments to improve yield and quality of crops or to increase the resistance of plants and animals to disease or insects. Include technicians who assist food scientists or food technologists in the research, development, production technology, quality control, packaging, processing, and use of foods. *Examples: Dairy Technologist, Seed Analyst*

Training Category: Associate | none | Moderate OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
311 Food Manufacturing	n	n
312 Beverage and Tobacco Product Manufacturing	n	n
6113 Colleges and Universities	n	n

19-4021 Biological Technicians



Assist biological and medical scientists in laboratories. Set up, operate, and maintain laboratory instruments and equipment, monitor experiments, make observations, and calculate and record results. May analyze organic substances, such as blood, food, and drugs. *Examples: Biotechnologist; Wildlife Technician; Specimen Technician*

Training Category: Bachelor's | none | none

2017 Average Wage:	\$23.49
2016 Estimated Employment:	563
2026 Projected Employment:	623
Growth Rate, 2016-2026:	10.7%
Annual Openings:	61

Industry	2016 Share	2026 Share
6113 Colleges and Universities	39.1%	36.6%
5417 Scientific Research and Development Services	16.5%	17.0%
Federal Government, Excluding Post Office	3.9%	3.5%
325 Chemical Manufacturing	n	n
339 Miscellaneous Manufacturing	n	n
621 Ambulatory Health Care Services	n	n

19-4031 Chemical Technicians



Conduct chemical and physical laboratory tests to assist scientists in making qualitative and quantitative analyses of solids, liquids, and gaseous materials for purposes, such as research and development of new products or processes, quality control, maintenance of environmental standards, and other work involving experimental, theoretical, or practical application of chemistry and related sciences. *Examples: Fiber Analyst; Paint Tester*

Training Category: Associate | none | Moderate OJT

2017 Average Wage:	\$20.93
2016 Estimated Employment:	183
2026 Projected Employment:	191
Growth Rate, 2016-2026:	4.4%
Annual Openings:	18

Industry	2016 Share	2026 Share
5413 Architectural and Engineering Services	15.9%	16.8%
6113 Colleges and Universities	15.3%	15.2%
339 Miscellaneous Manufacturing	14.2%	13.1%
221 Utilities	n	n
325 Chemical Manufacturing	n	n
334 Computer and Electronic Product Manufacturing	n	n

19-4041 Geological and Petroleum Technicians



Assist scientists in the use of electrical, sonic, or nuclear measuring instruments in both laboratory and production activities to obtain data indicating potential sources of metallic ore, gas or petroleum. *Examples: Field Scout; Crude Tester; Seismic Observer*

Training Category: Associate | none | Moderate OJT

2017 Average Wage:	\$21.65
2016 Estimated Employment:	27
2026 Projected Employment:	28
Growth Rate, 2016-2026:	3.7%
Annual Openings:	3

Industry	2016 Share	2026 Share
237 Heavy and Civil Engineering Construction	n	n
5413 Architectural and Engineering Services	n	n
State Government, excl. Education and Hospitals	n	n

19-4051 Nuclear Technicians



Assist scientists in both laboratory and production activities by performing technical tasks involving nuclear physics, primarily in operation, maintenance, production, and quality control support activities. *Examples: Accelerator Operator; Radiation Monitor*

Training Category: Associate | none | Moderate OJT

2017 Average Wage:	\$23.85
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
221 Utilities	n	n

19-4061 Social Science Research Assistants



Assist social scientists in laboratory, survey, and other social research. May perform publication activities, laboratory analysis, quality control, or data management. Normally these individuals work under the direct supervision of a social scientist and assist in those activities which are more routine. *Examples: City Planning Aide; Economic Research Assistant*

Training Category: Bachelor's | none | none

2017 Average Wage:	\$23.55
2016 Estimated Employment:	29
2026 Projected Employment:	28
Growth Rate, 2016-2026:	-3.5%
Annual Openings:	3

Industry	2016 Share	2026 Share
6113 Colleges and Universities	75.9%	78.6%
5417 Scientific Research and Development Services	n	n
621 Ambulatory Health Care Services	n	n
Local Government, Excluding Education	n	n

19-4091 Environmental Science and Protection Technicians, Including Health



Performs laboratory and field tests to monitor the environment and investigate sources of pollution, including those that affect health. Under direction of an environmental scientist or specialist, may collect samples of gases, soil, water, and other materials for testing and take corrective actions as assigned. *Example: Pollution Control Technician*

Training Category: Associate | none | none

2017 Average Wage:	\$22.54
2016 Estimated Employment:	202
2026 Projected Employment:	231
Growth Rate, 2016-2026:	14.4%
Annual Openings:	28

Industry	2016 Share	2026 Share
5416 Management and Technical Consulting Services	34.2%	38.1%
5413 Architectural and Engineering Services	17.8%	16.5%
State Government, excl. Education and Hospitals	10.9%	9.5%
6113 Colleges and Universities	8.9%	7.8%
5417 Scientific Research and Development Services	8.4%	8.2%
Local Government, Excluding Education	6.4%	6.1%

19-4092 Forensic Science Technicians



Collect, identify, classify, and analyze physical evidence related to criminal investigations. Perform tests on weapons or substances, such as fiber, hair, and tissue to determine significance to investigation. May testify as expert witnesses on evidence or crime laboratory techniques. May serve as specialists in area of expertise, such as ballistics, fingerprinting, handwriting, or biochemistry. *Examples: Ballistic Expert; Fingerprint Classifier; Polygraph Examiner*

Training Category: Bachelor's | none | Moderate OJT

2017 Average Wage:	\$35.19
2016 Estimated Employment:	41
2026 Projected Employment:	46
Growth Rate, 2016-2026:	12.2%
Annual Openings:	5

Industry	2016 Share	2026 Share
State Government, excl. Education and Hospitals	95.1%	95.7%
Local Government, Excluding Education	4.9%	4.4%

19-4093 Forest and Conservation Technicians



Compile data pertaining to size, content, condition, and other characteristics of forest tracts, under direction of foresters; train and lead forest workers in forest propagation, fire prevention and suppression. May assist conservation scientists in managing, improving, and protecting rangelands and wildlife habitats, and help provide technical assistance regarding the conservation of soil, water, and related natural resources. *Examples: Grazing Examiner; Soil Tester; Tree Warden*

Training Category: Associate | none | none

2017 Average Wage:	\$18.83
2016 Estimated Employment:	90
2026 Projected Employment:	95
Growth Rate, 2016-2026:	5.6%
Annual Openings:	11

Industry	2016 Share	2026 Share
Federal Government, Excluding Post Office	66.7%	64.2%
813 Membership Organizations	20.0%	22.1%
Local Government, Excluding Education	11.1%	11.6%
5413 Architectural and Engineering Services	n	n
6113 Colleges and Universities	n	n

19-4099 Life, Physical, and Social Science Technicians, All Other



All life, physical, and social science technicians not listed separately. *Examples: Laser Technician; Radiographer; Meteorological Aide*

Training Category: Associate | none | none

2017 Average Wage:	\$27.28
2016 Estimated Employment:	114
2026 Projected Employment:	120
Growth Rate, 2016-2026:	5.3%
Annual Openings:	15

Industry	2016 Share	2026 Share
5413 Architectural and Engineering Services	22.8%	22.5%
6113 Colleges and Universities	15.8%	15.0%
Federal Government, Excluding Post Office	14.9%	14.2%
335 Electrical Equipment and Appliance Manufacturing	n	n
5416 Management and Technical Consulting Services	n	n
5613 Employment Services	n	n

21-1011 Substance Abuse and Behavioral Disorder Counselors



Counsel and advise individuals with alcohol, tobacco, drug, or other problems, such as gambling and eating disorders. May counsel individuals, families, or groups or engage in prevention programs. *Examples: Addiction Counselor; Chemical Dependency Counselor; Drug Counselor*

Training Category: Bachelor's | none | none

2017 Average Wage:	\$23.61
2016 Estimated Employment:	239
2026 Projected Employment:	297
Growth Rate, 2016-2026:	24.3%
Annual Openings:	34

Industry	2016 Share	2026 Share
623 Nursing and Residential Care Facilities	47.7%	47.5%
621 Ambulatory Health Care Services	31.8%	31.3%
Self-employed Workers	6.7%	8.1%
6111 Elementary and Secondary Schools	n	n
622 Hospitals	n	n
624 Social Assistance	n	n

21-1012 Educational, Guidance, School, and Vocational Counselors



Counsel individuals and provide group educational and vocational guidance services. *Examples: Curriculum Counselor; Educational Adviser*

Training Category: Master's | none | none

2017 Average Wage:	\$28.50
2016 Estimated Employment:	1,155
2026 Projected Employment:	1,220
Growth Rate, 2016-2026:	5.6%
Annual Openings:	128

Industry	2016 Share	2026 Share
6111 Elementary and Secondary Schools	67.2%	64.8%
6113 Colleges and Universities	12.8%	13.9%
624 Social Assistance	5.5%	5.5%
Self-employed Workers	2.6%	3.7%
State Government, excl. Education and Hospitals	2.5%	2.5%
6112 Junior Colleges	n	n