Science, Technology, Engineering, and Mathematics (STEM) Cluster
Occupation, SOC Code, and Description

Occupation, SOC Code, and Description	NH Occupational Projections Employment 2020	2030	Avg. Annual Openings Exits	Transfers	Total	Future Outlook	2021 Wage Entry Level / Median	Usual Entry-Level Preparation Education	Experience	Training	Apprentice	Military	NH License	Holland Interests 1st	2nd	3rd	Career Pathways
Aerospace Engineers (17-2011): Perform a variety of engineering work in designing, constructing, and testing aircraft, missiles, and spacecraft. May conduct basic and applied research to evaluate adaptability of materials and equipment to aircraft design and manufacture.	n	n	n	n	n	↓	$42.94 / $50.93	Bachelor's degree	None	None	★	★	★	I	R		Engineering and Technology
Anthropologists and Archeologists (19-3091): Study the origin, development, and behavior of human beings. May engage in systematic recovery and examination of material evidence, such as tools or pottery remaining from past human culture.	36	40	1	2	3	↘	$22.68 / $24.15	Master's degree	None	None				I	A	R	Science and Mathematics
Architectural and Engineering Managers (11-9041): Plan, direct, or coordinate activities in such fields as architecture and engineering or research and development in these fields.	1,461	1,569	27	77	115	↑	$53.55 / $78.43	Bachelor's degree	5 years or more	None		★		E	R	I	Engineering and Technology
Atmospheric and Space Scientists (19-2021): Investigate atmospheric phenomena and interpret meteorological data gathered by surface and air stations, satellites, and radar to prepare reports and forecasts. Includes weather forecasters.	64	76	1	5	7	↗	$16.41 / $18.75	Bachelor's degree	None	None	★	★		I	R		Science and Mathematics
Biochemists and Biophysicists (19-1021): Study the chemical composition and physical principles of living cells and organisms, their electrical and mechanical energy, and related phenomena. Conduct research on metabolism, reproduction, growth, and heredity, or the effects of foods, drugs, or serums.	89	99	2	7	10	↘	$30.74 / $46.92	Doctoral or professional degree	None	None		★		I	A	R	Science and Mathematics
Bioengineers and Biomedical Engineers (17-2031): Apply knowledge of engineering, biology, and biomechanical principles to the design, development, and evaluation of biological and health systems and products, such as artificial organs, prostheses, instrumentation, and medical information systems.	n	n	n	n	n	↓	$56.82 / $62.05	Bachelor's degree	None	None		★	★	I	R		Engineering and Technology
Biological Scientists, All Other (19-1029): All biological scientists not listed separately. Includes Bioinformatics Scientists, Molecular and Cellular Biologists, and Geneticists.	141	154	2	10	13	↘	$21.35 / $37.89	Bachelor's degree	None	None		★		I	R		Science and Mathematics
Cartographers and Photogrammetrists (17-1021): Collect, analyze, and interpret geographic information from geodetic surveys, aerial photographs, and satellite data. Research, study, and prepare maps and spatial data in digital or graphic form. May work with GIS software.	113	128	4	6	12	↗	$19.75 / $28.90	Bachelor's degree	None	None	★	★		R	I	C	Science and Mathematics
Chemical Engineers (17-2041): Design chemical plant equipment and devise manufacturing processes for chemicals and products, such as gasoline, synthetic rubber, plastics, detergents, cement, paper, and pulp, applying principles and technology of chemistry, physics, and engineering.	98	102	2	4	6	↘	$29.99 / $37.74	Bachelor's degree	None	None		★	★	I	R		Engineering and Technology
Chemists (19-2031): Conduct qualitative and quantitative chemical analyses or experiments in laboratories for quality or process control or to develop new products or knowledge.	256	306	4	21	30	↑	$26.99 / $48.83	Bachelor's degree	None	None		★		I	R	C	Science and Mathematics
Computer and Information Research Scientists (15-1221): Conduct research into fundamental computer and information science as theorists, designers, or inventors. Develop solutions to problems in the field of computer hardware and software.	61	77	1	4	7	↗	$43.62 / $53.35	Master's degree	None	None		★		I	R	C	Science and Mathematics

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Computer Hardware Engineers (17-2061): Research, design, develop, or test computer or computer-related equipment for commercial, industrial, military, or scientific use. May supervise the manufacturing and installation of computer or computer-related equipment and components.	194	204	4	9	14	↘	$39.94 / $62.15	Bachelor's degree	None	None		★	★	I	R	C	Engineering and Technology
Conservation Scientists (19-1031): Manage, improve, and protect natural resources to maximize use without damaging the environment. May conduct soil surveys and develop plans to eliminate soil erosion or protect rangelands. May identify best ways to conserve soil and water.	89	96	2	7	10	↘	$25.12 / $35.64	Bachelor's degree	None	None	★			R	I	E	Science and Mathematics
Data Scientists and Mathematical Science Occupations, All Other (15-2098): All other mathematical science occupations not listed separately. Includes Data Scientists and Bioinformatics Technicians.	140	184	3	8	15	↗	n/a / n/a	Bachelor's degree	None	None	★	★		C	I	E	Science and Mathematics
Economists (19-3011): Conduct research, prepare reports, or formulate plans to address economic problems related to the production and distribution of goods and services or monetary and fiscal policy. May collect and process economic or statistical data using sampling or econometric methods.	n	n	n	n	n	↓	$31.66 / $68.94	Master's degree	None	None				I	C	E	Science and Mathematics
Electrical Engineers (17-2071): Research, design, develop, test, or supervise the manufacturing and installation of electrical equipment, components, or systems for commercial, industrial, military, or scientific use.	1,802	2,028	46	77	146	↑	$37.52 / $52.14	Bachelor's degree	None	None		★	★	I	R		Engineering and Technology
Electronics Engineers, Except Computer (17-2072): Research, design, develop, or test electronic components and systems for commercial, industrial, military, or scientific use, employing knowledge of electronic theory and materials properties. Design electronic circuits and components.	380	432	10	16	31	↑	$36.49 / $47.76	Bachelor's degree	None	None		★	★	I	R		Engineering and Technology
Engineers, All Other (17-2199): All engineers not listed separately. Includes Biochemical, Validation, Energy, Manufacturing, Mechatronics, Microsystems, Photonics, Robotics, Nanosystems, Wind Energy, and Solar Energy Systems Engineers.	334	344	7	14	22	↘	$29.84 / $44.24	Bachelor's degree	None	None		★	★	I	R		Engineering and Technology
Environmental Scientists and Specialists, Including Health (19-2041): Conduct research or perform investigations for the purpose of identifying, abating, or eliminating sources of pollutants or hazards that affect either the environment or the health of the population.	375	404	6	31	40	↑	$25.08 / $35.36	Bachelor's degree	None	None	★	★		I	R	C	Science and Mathematics
Geographers (19-3092): 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, climate, soils, plants, and animals, and spatial implications of human activities in an area, as well as interdependence between regions.	n	n	n	n	n	↓	n/a / n/a	Bachelor's degree	None	None				I	R	A	Science and Mathematics
Geoscientists, Except Hydrologists and Geographers (19-2042): Study the composition, structure, and other physical aspects of the Earth. May use geological, physics, and math knowledge to explore for oil, gas, minerals, or water. May study the earth's internal composition, atmospheres, and oceans.	131	142	2	11	14	↘	$28.75 / $34.72	Bachelor's degree	None	None		★	★	I	R		Science and Mathematics

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Health and Safety Engineers, Except Mining Safety Engineers and Inspectors (17-2111): Promote worksite or product safety by applying knowledge of industrial processes, mechanics, chemistry, psychology, and industrial health and safety laws. Includes industrial product safety engineers.	52	56	1	2	3	↘	$36.66 / $61.11	Bachelor's degree	None	None		★	★	I	R	C	Engineering and Technology
Historians (19-3093): Research, analyze, record, and interpret the past as recorded in sources such as government and institutional records, newspapers and other periodicals, photographs, interviews, films, electronic media, and unpublished manuscripts, such as personal diaries and letters.	n	n	n	n	n	↓	n/a / n/a	Master's degree	None	None	★	★		I			Science and Mathematics
Hydrologists (19-2043): Research the distribution, circulation, and physical properties of underground and surface waters; and 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.	100	113	2	8	11	↗	$31.89 / $42.51	Bachelor's degree	None	None		★		I	R		Science and Mathematics
Industrial Engineers (17-2112): Design, develop, test, and evaluate integrated systems for managing industrial production processes, including human work factors, quality control, inventory control, logistics and material flow, cost analysis, and production coordination.	1,887	2,206	45	82	159	↑	$33.53 / $46.83	Bachelor's degree	None	None	★	★	★	I	C	E	Engineering and Technology
Life, Physical, and Social Science Technicians, All Other (19-4099): All life, physical, and social science technicians not listed separately. Includes Quality Control Analysts; Precision Agriculture Technicians; and Remote Sensing Technicians.	106	123	3	11	16	↗	$18.05 / $24.00	Associate's degree	None	None	★	★		I	R	C	Science and Mathematics
Marine Engineers and Naval Architects (17-2121): Design, develop, and evaluate the operation of marine vessels, ship machinery, and related equipment, such as power supply and propulsion systems.	n	n	n	n	n	↘	n/a / n/a	Bachelor's degree	None	None		★	★	I	R	A	Engineering and Technology
Materials Engineers (17-2131): Evaluate materials and develop machinery and processes to manufacture materials for use in products that must meet specialized design and performance specifications. Develop new uses for known materials.	71	76	2	3	5	↘	$38.75 / $46.10	Bachelor's degree	None	None	★	★	★	I	R	E	Engineering and Technology
Materials Scientists (19-2032): Research and study the structures and chemical properties of natural and synthetic or composite materials such as metals, alloys, rubber, ceramics, semiconductors, polymers, and glass. Determine ways to strengthen or combine materials or develop new materials.	123	134	2	10	13	↘	$45.66 / $80.31	Bachelor's degree	None	None				I	R		Science and Mathematics
Mathematicians (15-2021): Conduct research in fundamental mathematics or in application of mathematical techniques to science, management, and other fields. Solve problems in various fields using mathematical methods.	23	24	0	1	1	↘	n/a / n/a	Master's degree	None	None				I	C	A	Science and Mathematics
Mechanical Engineers (17-2141): Perform engineering duties in planning and designing tools, engines, machines, and other mechanically functioning equipment. Oversee installation, operation, maintenance, and repair of equipment such as centralized heat, gas, water, and steam systems.	2,532	2,756	45	109	176	↑	$33.49 / $46.83	Bachelor's degree	None	None	★	★	★	I	R	C	Engineering and Technology
Medical Scientists, Except Epidemiologists (19-1042): Conduct research dealing with the understanding of human diseases and the improvement of human health. Engage in clinical investigation, research and development, or other related activities.	270	315	4	17	25	↗	$32.34 / $38.81	Doctoral or professional degree	None	None		★		I	R	A	Science and Mathematics

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Microbiologists (19-1022): Investigate the growth, structure, development, and other characteristics of microscopic organisms such as bacteria, algae, or fungi. Includes medical microbiologists who study the relationship between organisms and disease or the effects of antibiotics on microorganisms.	160	168	3	12	16	↘	$25.59 / $31.01	Bachelor's degree	None	None		★		I	R		Science and Mathematics
Mining and Geological Engineers, Including Mining Safety Engineers (17-2151): Conduct sub-surface surveys to identify characteristics of potential land or mining development sites. May inspect for unsafe conditions or specify equipment for safe, economical, and environmentally sound extraction.	n	n	n	n	n	↘	n/a / n/a	Bachelor's degree	None	None	★		★	I	R	E	Engineering and Technology
Nuclear Engineers (17-2161): Conduct research on nuclear engineering projects or apply principles and theory of nuclear science to problems concerned with release, control, and use of nuclear energy and nuclear waste disposal.	n	n	n	n	n	↓	$47.57 / $61.55	Bachelor's degree	None	None		★	★	I	R	C	Engineering and Technology
Physical Scientists, All Other (19-2099): All physical scientists not listed separately. Includes Remote Sensing Scientists and Technologists.	109	107	1	7	8	↓	n/a / n/a	Bachelor's degree	None	None		★		I	R		Science and Mathematics
Physicists (19-2012): Conduct research into physical phenomena, develop theories on the basis of observation and experiments, and devise methods to apply physical laws and theories.	95	103	2	5	8	↘	$33.32 / $50.00	Doctoral or professional degree	None	None		★		I	R		Science and Mathematics
Political Scientists (19-3094): Study the origin, development, and operation of political systems. May study topics, such as public opinion, political decision-making, and ideology. May analyze the structure and operation of governments or various political entities. May conduct public opinion surveys, or analyze election results or public documents.	77	87	2	5	8	↗	$28.51 / $39.62	Master's degree	None	None		★		I	A	S	Science and Mathematics
Social Science Research Assistants (19-4061): Assist social scientists in laboratory, survey, and other social science research. May help prepare findings for publication and assist in laboratory analysis, quality control, or data management.	49	53	1	5	6	↘	n/a / n/a	Bachelor's degree	None	None				C	I		Science and Mathematics
Social Scientists and Related Workers, All Other (19-3099): All social scientists and related workers not listed separately. Includes Transportation Planners.	118	121	3	8	11	↘	$27.90 / $35.32	Bachelor's degree	None	None		★		I	A		Science and Mathematics
Sociologists (19-3041): 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.	n	n	n	n	n	↘	n/a / n/a	Master's degree	None	None				I	A	S	Science and Mathematics
Statisticians (15-2041): Develop or apply mathematical or statistical theory and methods to collect, organize, interpret, and summarize numerical data to provide usable information. May specialize in fields such as bio-statistics, agricultural statistics, business statistics, or economic statistics.	75	105	2	4	9	↗	$30.99 / $37.53	Master's degree	None	None	★	★		C	I		Science and Mathematics
Survey Researchers (19-3022): Plan, develop, or conduct surveys. May analyze and interpret the meaning of survey data, determine survey objectives, or suggest or test question wording. Includes social scientists who primarily design questionnaires or supervise survey teams.	n	n	n	n	n	↓	n/a / n/a	Master's degree	None	None				I	C	E	Science and Mathematics