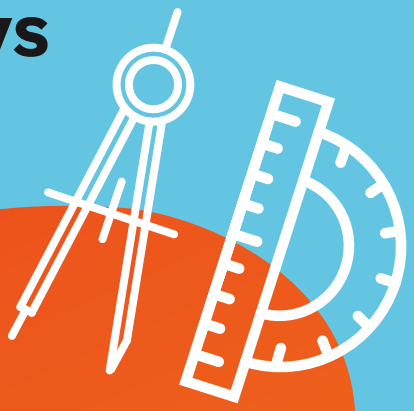
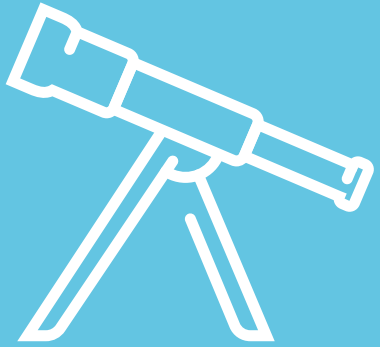
Explorelearning®

Virtual Career Days

STEM Career Guide





Science

Skills: Data Analysis, Research, Scientific Literacy, Determination, Logical and Independent Thinking, Attention to Detail, Observation

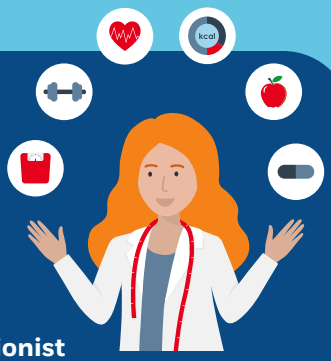
Biologist
Study humans, animals, plants, and bacteria to help the world understand how nature, genetics, and biology work.

Biotechnologist
Use knowledge of cells and organisms to create new products and improve processes.

Chemist
Experiment with chemicals to understand unfamiliar substances and how they behave, or create new compounds for use in a variety of practical applications.

Environmental Scientist
Analyze air, soil, water, food, and other substances to prevent, control, or fix environmental issues.

Doctor
Diagnose and treat patients using specialized medical skills.



Nutritionist
Counsel patients to achieve a healthy lifestyle or specific health-related goal by using knowledge of food and nutrition.

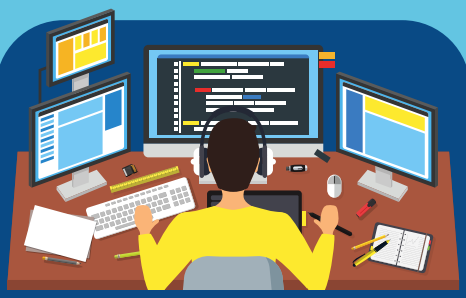
Psychologist
Research and investigate thoughts, emotions, feelings, and behavior of humans through observation, interviews, and data.

Anthropologist
Study humans as a species and seek to understand the human experience throughout history.

Forensic Scientist
Collect and analyze evidence to support crime scene investigations.

Technology

Skills: Attention to Detail, Logic, Organizational Skills, Appreciation of Teamwork, Passion for Learning



Computer Scientist
Write and program software to solve problems using technology and make computers do things more efficiently.

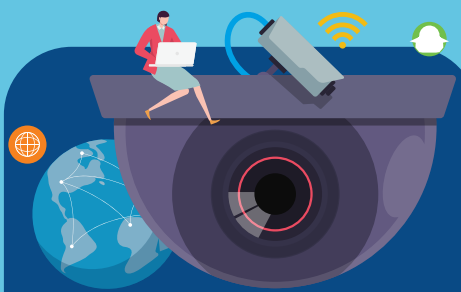
Information Technology Specialist
Develop and maintain the technological efficiency and safety of companies and organizations.

Business Intelligence Analyst
Review data to produce financial and market intelligence reports to help companies make operational and business decisions.

Software Engineer
Use engineering and programming principles to build software, develop computer games, and run network controls.

Data Scientist
Help companies make data-driven decisions by creating mathematical models to address real-world problems.

Data Visualization Specialist
Transform data sets into visual content, including maps, charts, and graphs that can help steer business decisions.



Network & Cyber Security Professional
Plan and carry out security measures to protect the computer networks and systems of companies and organizations.

Web Developer
Use authoring and scripting languages to design, code, and maintain websites.

Video Game Designer
Develop user-friendly games for computers, mobile devices, and websites by brainstorming game details, building code, and testing products.

Engineering

Skills: Problem Solving, Mathematics, Organization, Communication, Attention to Detail

Aeruonautical Engineer
Design, test, and manage the manufacture of aircraft, spacecraft, satellites, and missiles.

Electrical Engineer
Apply the physics and mathematics of electricity to develop electrical equipment such as motors, radar, and communications systems.

Industrial Engineer
Devise efficient systems that integrate workers, machines, materials, information, and energy to improve production and manufacturing processes.

Mechanical Engineer
Apply knowledge of science, math, and physics to design, build, and test mechanical devices.

Architect
Conceptualize designs and draft blueprints for new construction and renovations.

Agricultural Engineer
Solve agricultural problems concerning power supplies, pollution, and the storage and processing of agricultural products.

Cartographer
Collect, measure, and interpret geographic information to create and update maps and charts.

Nuclear Engineer
Research and develop the processes, instruments, and systems used in the development of nuclear energy and radiation.

Mining and Geological Engineer
Design mines to safely and efficiently remove minerals such as coal and metals for use in manufacturing and utilities.

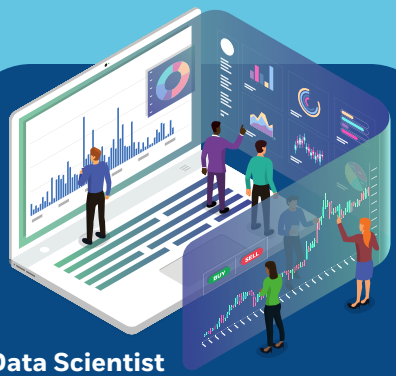
Math

Skills: Critical Thinking, Quantitative Reasoning, Problem Solving, Time Management, Active Listening, Mathematical Reasoning, Investigative and Analytical Mindset

Mathematician
Analyze data and appliy mathematical and statistical techniques to solve real-world problems in business, engineering, healthcare, or other fields.

Statistician
Interpret and analyze statistical information to solve engineering, economic, and environmental issues.

Actuary
Use math and statistics to estimate the financial impact of actions or decisions and help clients minimize risk.



Data Scientist
Analyze data to help companies and organizations make decisions through computer science, statistics, and math.

Economist
Study and explain how society distributes resources, such as produce, machinery, land, and labor.

Cryptographer
Protect computers and information technology by creating algorithms and ciphers to encrypt data.

Financial Advisor
Help individuals and businesses acquire wealth by investing money and reducing financial risk.

Budget Analyst
Help public and private organizations prepare budget reports and monitor organizational spending.

Fraud Investigator
Review allegations of credit card,insurance and other fraud to determine whether individuals or organizations have attempted deception for financial benefit.