

Exploring Careers

in

   
S T E M

Why STEM?

Enhanced Abilities

Expansive Skillset

Transferable Skills

Opportunities

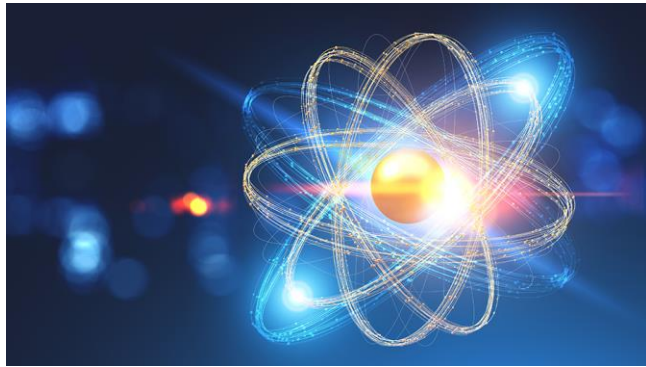
Main Areas of Science



BIOLOGY



**EARTH
SCIENCE**



PHYSICS



CHEMISTRY

Areas of Technology



Medical Technology



Transportation



Agricultural and Biotechnology



Communication/Information



Manufacturing





Specializations

- **Each STEM field offers many different specializations.** For example, students interested in science can pursue programmes in engineering and explore fields like electrical engineering and mechanical engineering.



EXPLORING THE CAREERS



Medical Scientist

- Medical scientists do research to determine the causes of disease. They also look for ways to prevent and cure them. To work as a medical scientist, you will need a doctorate in a biological science, a medical degree (M.D.), or both.

Median Annual Salary (2018): USD \$84,810

Hydrologist

- Hydrologists study bodies of water, both on the earth's surface and underground. They look at their circulation, distribution, and physical properties.
- To work in this field, you will need a master's degree in geoscience, environmental science, or engineering with a concentration in hydrology or water sciences.
- CSEC: Geography, Chemistry, Physics

Median Annual Salary (2018): \$79,370

Geoscientist

- Geoscientists search for natural resources or help environmental scientists clean up the environment.
- To get an entry-level research position you will need at least a bachelor's degree in geoscience or earth science, but most research positions require a doctorate
- CSEC: Geography, Biology

Median Annual Salary (2018): \$91,130

Chemist

- Chemists study chemicals and how they can be used to improve our lives.
- You will need a master's degree or Ph.D. in chemistry for most jobs, but a limited number of positions require only a bachelor's degree.
- CSEC: Chemistry, Mathematics

Median Annual Salary (2018): \$76,890

Marine Biologist

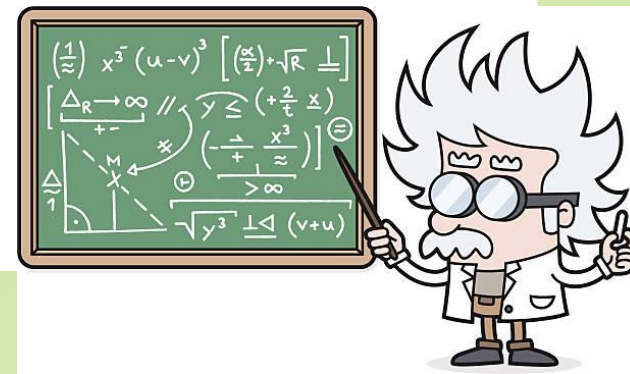
- A marine biologist studies oceans and their organisms. They protect, observe, or manage marine organisms or animals, plants, and microbes. Marine biologists can hold many titles and specializations.

Median Salary: \$80,920

Mathematician/ Statistician

- Whether working for a corporation as a data analyst or teaching the next generation of mathematicians, these professionals use their knowledge of mathematical principles and theories to advance understanding of math- and statistics-related questions. They frequently work alone but may consult with other teams when creating parameters for their projects.

Median Salary: \$100,840



Environmental Engineer

- While environmental scientists work more towards understanding the causes of environmental issues, environmental engineers develop solutions based on that research. They can often be found working to improve systems and processes around disposal of waste, quality of water, control of pollution, and recycling.

Median Salary: \$136,550

Biochemist

- Biochemistry delves into the chemical processes of living organisms. In other words, biochemists apply their knowledge of chemicals and perform different chemical techniques and experiments to decipher biological problems.
- CSEC: Biology, Chemistry

Median Salary: \$81,480

How can E-BIOME help you?

Summer of STEM

Aspiring Medical Students Programme

STEM Resources