



The Science, Technology, Engineering & Mathematics Career Cluster

Careers in Science, Technology, Engineering & Mathematics involve planning, managing and providing scientific research and professional and technical services (such as physical science, social science, engineering) including laboratory and testing services and research and development services.



Do you...

- Collect rocks or fossils?
- Like to identify plants and animals?
- Conduct science experiments outside of school hours?
- Like to design your own experiments?
- Like watching the weather and how it affects our world?
- Like to stargaze?
- Like to design planes, vehicles, robotics?
- Like to create/design a new machine or new product?

Careers you might have heard of in this cluster:

-Anthropologist

-Astronomer

-Physicist

-Environmental Scientist

-Engineer: Industrial, Chemical, Nuclear, Civil, Aerospace, Electrical, Mechanical

-Meteorologist

-Computer Hardware Engineer

-High School Courses to take: Earth Science, Biology, Chemistry, Physics, Anatomy, Advanced Math & Science, Computer Technology, Statistics

Science, Technology, Engineering & Mathematics Career Pathways

There are 2 Career Pathways in the STEM cluster:

- **Engineering and Technology** – Aerospace Engineer, Automotive Engineer, Biomedical Engineer, Chemical Engineer, Electronics Technician, Nuclear Operator, Quality Technician, Survey Technician, Manufacturing Technician
- **Science and Math** – Analytical Chemist, Applied Mathematician, Biologist, Botanist, Ecologist, Geologist, Hydrologist, Nanobiologist, Nuclear Technician, Statistician.

-Computer occupations made up nearly 45 percent of STEM employment

-Engineers made up an additional 19 percent.

-Overall, STEM occupations are projected to grow faster than the average for all occupations. And wages in these occupations were generally higher than the median for all occupations.

- STEM employment is estimated to grow about 13 percent between 2012 and 2022.

Training required...

- You can prepare for STEM careers even in high school with AP courses...make sure you take as many AP Advanced Placement courses that are rigorous.
- Many STEM careers require a Bachelor's Degree or higher but some careers like surveying or map technician only require a high school diploma.
- Technicians, Drafters, and Computer Specialists can acquire their positions with just an Associates Degree.
- STEM workers advise you to look for internship, volunteer, and research opportunities as early as possible: while you are still in school, not waiting until afterward.



**The famous Red Bull space
jump has impacted the world...**

