

STEM Mio

Career Area Overviews



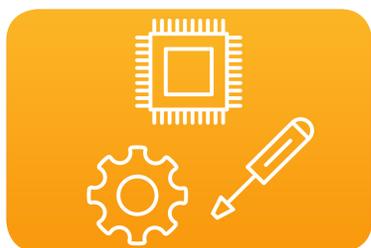
Health Sciences (Sustaining People)

Health and Medical professionals improve the well-being of those around them. The various health careers use combinations of science, engineering, mathematics and technology to heal, improve, and support the lives of others. This is a huge field of fascinating careers for people who want the rewarding experience of sustaining others. The jobs in the health care industry range from doctors, nurses, dentists, hygienists, nutritionists and massage therapists, to forensics, crime scene investigators, sports trainers, psychologists, art therapists, childcare workers, and more. The training needed to enter the health field ranges from just 1-2 years after high school to 10+ years of university. Of course, more college training usually results in higher paying jobs in this field. These professions have a huge impact on people's well being.



Environmental Sciences (Sustaining Earth)

Environmental science includes a wide range of careers involving the biological, physical, and earth sciences. These jobs focus how to sustain life and well-being on this planet, including the study of nature, animals, oceans, volcanoes, geology, weather, pollution, or agriculture. You could work in an office or travel the world to remote locations. Wildlife Managers, Zoologists, and Horticulturists work with animals and plants, while Oceanographers specialize in underwater life. Meteorologists develop models to predict the weather, or broadcast the forecast on TV. Many environmental scientists do research on how to improve our planet and give advice to companies, law firms, non-profit groups, or government agencies like the Environmental Protection Agency, the National Park Service, or the United States Geological Survey. They all have a huge impact on our planet.



Engineering Sciences (Designing Objects)

Engineers use math, science, and technology to solve real-world problems and make our lives easier. Engineering jobs involve tinkering, designing and experimenting to create new products, materials, machines, buildings, and solutions. Engineers design and manufacture most everything around us, from phones, cars, clothing, and can openers, to electrical power, bridges, and air and space travel. Engineers usually specialize in a particular field, so there are many types of engineers, including industrial, chemical, electrical, civil, manufacturing, aerospace, automotive, mechanical, and materials engineering. You could work in an office, laboratory, factory, in the ocean, or even in outer space. Engineers create the future of our society.



Computer Sciences (Designing Software)

Computer science-related careers use computers, programming, design, creative thinking and logic to solve problems and create innovations. These careers range from web page developers, video game designers, tech support, or network security, to graphic design, animation, robotics, artificial intelligence, cryptography, or mobile phones. Computer scientists also connect people, and help make communications (such as internet, video, or mobile applications) work better and faster. These jobs can be in large businesses, banks, airports, hospitals, or institutions like NASA, or out at job sites that use computerized technology, such as large farms, automobile factories, military bases, or schools. This field is growing faster than all others, and many computer jobs allow you to work from home. Computer scientists are on the cutting edge of innovation.

For information, collaborations, or to bring STEM Mio to your community, please contact Dr. Anna Arici at anna.arici@asu.edu.

