



# Science, Technology, Engineering and Math

Science, Technology, Engineering and Mathematics (STEM) encompasses a wide variety of career paths, from forensic research, data analytics and cyber security to game design and aviation. Sun Devils in STEM create drones capable of being operated using the human brain, detect and treat neurodegenerative diseases and design new technology for space exploration.

## Tips for success

### Participate in research

Research is complementary to your coursework at ASU. Because STEM careers rely heavily on research advancement, it is imperative that you gain research experience. Check out research projects at [science.asu.edu/stem](https://science.asu.edu/stem).

### Complete an internship

Many positions in STEM are highly competitive and completing an internship will allow you to practice the technical skills and theories you've learned in the classroom. Not only will internships allow you to practice technical skills, you will also gain teamwork and communication skills.

### Consider getting an advanced degree

In STEM careers, advanced degrees are a must. Research the position you aspire to and take a look at the requirements. If it requires a masters or PhD, start thinking about applying to relevant advanced degree programs.

### Network with professors

Building relationships with professors that have similar research interests can help you when applying for jobs. They can serve as references and can connect you with other researchers in your field. Find out more at [mentorship.asu.edu](https://mentorship.asu.edu).

## Possible career fields

Actuary  
Aerospace  
Agriculture  
Analysts (Market, Information Security, Financial, etc.)  
Architecture  
Aviation  
Bioinformatics  
Cartography/GIS/Geology  
Computer Technology & Design  
Earth & Environmental Science  
Econometrics  
Engineering  
Genetics Counseling  
Human Factors, Psychology & Cognitive Science  
Interdisciplinary Scientific & Technical Research  
Internet & New Media  
Mathematics & Statistics  
Management  
Meteorology  
Physical Science  
Solar Energy  
Telecommunications

## Professional Associations

There are several local and national professional associations connected to this Career Interest Area. Joining a professional association will help you network with professionals already in your field of interest, as well as expose you to new opportunities you may not have considered. Some are free to join and others may offer student rates to become a member.

- **American Mathematical Society**
- **American Chemical Society**
- **American Society for Microbiology**
- **American Society of Civil Engineers**
- **Association for Women in Science**
- **National Society of Black Engineers**
- **Society of Hispanic Professional Engineers**
- **Society of Manufacturing Engineers**
- **Society for Neuroscience**

## Student organizations at ASU

Student organizations are a great way to get connected with fellow students with similar interests. Many student clubs bring potential employers to speak at meetings, host career-related events, and offer professional development opportunities. Check [Sun Devil Sync](#) for more information on joining student organizations.

- **AIGA Poly**
- **Air Devils**
- **American Institute of Aeronautics and Astronautics**
- **American Institute of Chemical Engineers**
- **Biomedical Engineering Society**
- **Department of Information Systems Club**
- **Human Factors and Ergonomics Society**
- **Math Club**
- **The Physics Club**
- **Software Developers Association**
- **The Biomedical Science and Genetics Club**
- **The Planetary Society at ASU**
- **Women in Science and Engineering**

## Next steps

Try searching for internships on [Handshake](#) or volunteer opportunities with [VolunteerMatch](#).

## Highlight technical skills

Organizations that hire in the STEM fields value technical skills and employees who can clearly articulate them on resumes and in interviews. If you have developed any new technologies, websites, apps or games, including these in a portfolio can help showcase your skills. Consider showcasing these technical skills after your education category.

