STARS@SLU 2025
Session on Careers in STEM

Careers in STEM

The [U.S. Bureau of Labor Statistics](#) breaks careers in STEM into eight categories. Here are the categories with examples of jobs you can have within each field.

1. **Chemistry** - Chemists, Teachers, Technicians
2. **Computer Science** - Software Developers, Web Developers, Computer Programmers
3. **Engineering** - Mechanical Engineers, Civil Engineers, Chemical Engineers
4. **Environmental Science** - Scientists, Protection Technicians, Teachers
5. **Geo Sciences** - Geo Scientists, Technicians, Hydrologists
6. **Life Sciences** - Soil and Plant Scientists, Microbiologists, Epidemiologists
7. **Mathematics** - Actuaries, Mathematicians, Statisticians
8. **Physics / Astronomy** - Physicists, Astronomers, Teachers

Mathematical Skills Needed

According to the U.S. Bureau of Labor Statistics, some of the most in-demand mathematical skills listed in job postings include:

1. Mathematics
2. Advanced mathematics
3. Research
4. Planning
5. Problem solving
6. Written communication
7. Statistics
8. Leadership
9. Computer science
10. Teaching

Careers Using Math

- Actuary
- Researcher/Academic
- Biostatistician
- Budget Analyst
- Computational Biologist
- Computer Scientist
- Data Scientist
- Economist
- Cryptanalyst
- Financial Analyst
- Market Research Analyst

- Mathematical Physicist
- National Security Analyst
- Medical Scientist
- Statistician
- Teacher, High School
- Technical Writer
- Virtual Reality Developer
- AI Engineer
- Computer Programmer
- Mathematical Biophysicist

Orhun Aydın (SLU)

Assistant Professor, Department of Earth and Atmospheric Sciences

Ph.D. in Energy Resources Engineering (Geostatistics) - Stanford University

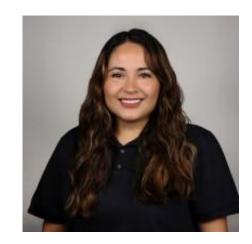Ph.D. Minor in Geological Sciences - Stanford University

Vanessa Gallego (FSI)

Senior Formulating Chemist, FSI

B.S. in Biology - Lindenwood University

Dorsa Ghoreishi (SLU)

Assistant Professor, Department of Mathematics and Statistics

Ph.D. in Mathematics - University of Missouri-Columbia

Dr. Ashkan Mirzaee (Ford)

Data Scientist, Ford Motor Company

Ph.D. in Industrial Engineering - University of Missouri-Columbia

Ph.D. Minor in Statistics - University of Missouri-Columbia

Meet the panelist

Orhun Aydin
Assistant Professor

Vanessa Gallego
Senior Chemist

Dorsa Ghoreishi
Assistant Professor

Ashkan Mirzaee
Data Scientist