What Can I Do With a Major in…?
Engineering Science
(Chemical, Electrical, Mechanical)

OVERVIEW

Because engineering careers rely on constant innovation, engineering majors should thrive in a changing environment. Likewise, a strong candidate for an engineering major should learn to communicate well and to work productively as part of a team. Despite the occasional competition between engineers, the most important innovations occur when engineers team up and collaborate fully. To thrive as an engineering college major, prepare yourself as early as possible with coursework in mathematics and science, as well as literature, history, and social sciences. Because engineering majors analyze solutions to human problems, a broad background in understanding those problems can make a huge difference when investigating human needs. A background in history, for example, can help an engineering major understand the ramifications of a potential solution. Exposure to the social sciences can spawn discussion of the kinds of problems for engineers to investigate. Even the study of literature can add that extra creative spark in the mind of an engineering major who might one day dream up a critical solution in the same way an author conjures up a character or a scene. Below are some examples of occupations that apply to engineering majors.

RELATED CAREERS

Aeronautical Engineer
Aerospace Engineer
Acoustical Engineer
Agricultural Engineering
Applied Mechanics
ASIC Design
Automotive Engineer
Biomedical Engineer
Biomechanics
Biotechnologist
Building Engineer
Change Package Engineer
Change Package Manager
Civil Engineer
Chemical Engineer
Ceramic Engineer
Computer Engineer
Construction Engineer
Construction Management
Design Engineer
Design and Materials Firms
Distribution Engineer
Drilling Engineer
Electrical Engineer
Engineering Management
Engineering Research
Environmental Consulting Firms
Environmental Engineer
Fabricated Metal Products
Federal Service
Fiber optics Engineer
Field Engineering
Fire Engineer
Geotechnical Engineer
Grant Administrator
Grant Writer
HVAC Engineer

Illuminating Engineer
Industrial Engineer
Information Systems
Laser Technician
Maintenance Superintendents
Manufacturing Manager
Material & Metallurgical Engineer
Materials Engineer
Materials Handling Engineer
Materials Science
Mining Engineer
Nanotechnologist
Nuclear Engineer
Nuclear Reactor Operation
Petroleum Engineer
Petroleum & Chemical Industry
Pipeline Engineer
Plant Engineer
Process Engineer
Power Plant Engineer
Project Engineering
Public Affairs
Public Works Engineering
QA Analyst
QA Manager
Quality Control Engineer
Refinery Engineer
Research and Development
Robotics Engineer
Robotics Developer
Safety Engineer
Sales Engineer
Security Engineer
Solar Engineer
Stationary Engineer
Structural Engineering
Technical Consulting

Technical Writer
Telecommunication Engineer
Thermal Engineer
Transportation Engineering
Validation Engineer
Water Resources Engineering
Major Skills
- Abstract and Formal Reasoning
- Programming Language Concepts
- Knowledge of Operating Systems
- Multi-tasking
- Testing
- Analyzing
- Mathematical Skills
- Problem-solving
- Organizing / Simplifying
- Logical Thinking
- Detail-oriented
- Thoroughness
- Work independently and in teams
- Advanced Quantitative Abilities
- Statistical Analysis
- Designing Systems
- Written and oral communication skills
- Marketing concepts
- Research
- Classifying / Systemizing
- Efficiency
- Systematic
- Critical Thinking
- JavaScript

 RELATED WEB SITES
TU Job Postings  http://myinterfase.com/trinity/student
The American Society of Mechanical Engineers Job Database http://www.asme.org/jobs
Engineering and Manufacturing Job Openings  http://www.nationjob.com/engineering
Jobs for Mechanical Engineers  http://www.endcen.com/mechjobs.htm
Job Search For Mechanical Engineers  http://www.interrec.net/jobsearch/mechanical.html
Mechanical Engineer Jobs Employment Recruiting  http://www.mechanicalengineer.com/

PROFESSIONAL ORGANIZATIONS
American Society of Mechanical Engineers  http://www.asme.org/
Mechanical Engineering Graduate Association of Women (MEGA)
Graduate Association of Mechanical Engineers
American Institute of Chemical Engineers  http://www.aiche.org
American Society of Civil Engineers  http://www.asce.org
National Society of Professional Engineers  http://www.nspe.org
The Institute of Electrical and Electronics Engineers, Inc.  http://www.ieee.org
The Institute of Industrial Engineers  http://www.iienet.org

Career Services Office — Trinity University
One Trinity Place — San Antonio, TX 78212
210.999.8321
www.trinity.edu/career — careerservices@trinity.edu