Description of the Field:

Engineers work in a wide variety of fields including aerospace, biological, biomedical, chemical, computer, electrical, environmental, industrial, materials, and mechanical.

- Chemical engineers invent, design, and operate manufacturing processes that involve the chemical transformation of raw materials into products that are of value to humankind.
- Chemical and biological engineers use concepts from the biological sciences to inspire and guide the development and production of chemicals, pharmaceuticals, and advanced biomaterials.
- Electrical, computer, and energy engineers work for manufacturers of electrical and electronic equipment, industrial machinery manufacturers, designers of professional and scientific instruments, communications companies and public utilities.
- Environmental engineering encompasses the scientific assessment and development of engineering solutions to environmental problems impacting the biosphere, land, water, and air quality.
- Mechanical engineering is a core discipline that encompasses the general areas of design and manufacturing, fluid and solid mechanics, and thermal and materials science.

What Can I Do With This Major:
Chemistry, Engineering, Environmental Studies, Math, Physics

Industry Overview:
Engineering Occupations, Discover Engineering

Sample CU Majors:
Explore Engineering, Computer & Math Majors

Prepare for an Internship/Job Search

CU Clubs/Organizations:
Beyond Boulder, CU American Institute of Aeronautics and Astronautics, CU American Institute of Chemical Engineers, CU Biomedical Engineering Society, CU Engineering Student Groups, CU Women in Computing, Society of Physics Students, American Society for Engineering Management

Sample Local Opportunities:

Professional Organizations:
America Society for Engineering Education (ASEE), American Institute of Aeronautics and Astronautics (AIAA), American Society of Civil Engineers (ASCE), American Society of Mechanical Engineers (ASME), Institute of Electric and Electronics Engineers (IEEE), Institute of Industrial Engineers (IIE), National Society of Professional Engineers (NSPE), Order of the Engineer, Society of Women Engineers

Start an Internship/Job Search

Search for Internships & Jobs:

International Focus:
Devex Jobs, Engineers Without Borders, Expat Engineer.net

Visit Go Global for additional resources.
Login to Careers Buffs to find internship and job postings from employers specifically seeking CU-Boulder students.

Adapt for a Changing World

Insider Advice & Trends:
Internships and/or research opportunities are highly suggested for finding a job after graduation. Start your internship searching and employer networking early, and begin applying for internships during the fall semester (many companies begin recruiting in the fall for the following summer internships). Students who are successful at obtaining internships and jobs have: good academic performance, involvement in engineering-related clubs/organizations, strong participation in class projects (including senior project), utilize their network, tailor resumes and cover letters, are can articulate their professional interests.

Sample Employers Recruiting at CU:
186 Lighting Design Group
Array Biopharma
Bechtel
Bend Research
Black & Veatch
Chevron
Cyberscience Corp
ExxonMobil
Jet Propulsion Laboratory
Kleinfelder
Knight Piesold
Medtronic
NCAR
Northrup Grumman
Qualcomm