



CHEMICAL ENGINEERING

College of Engineering
www.aus.edu/cen



Every element of our society depends on chemical engineers, who are responsible for many aspects of the way in which we live and work. Chemical engineers play an important role in protecting the environment, ensuring the health and safety of products and developing the processes that produce a vast array of products. Chemical engineers are skilled at turning raw materials into products that can be used safely and cost effectively. Chemical engineers are behind essential day-to-day items such as fuel, plastics, medicine, food and cosmetics.



Possible Career Options

- Biotechnologist
- Chemical Engineer
- Color Technologist
- Energy Engineer
- Nuclear Engineer
- Petroleum Engineer
- Product/Process Development Scientist



Possible Employers

- Engineering Firms
- Non-profit Organizations
- Governmental Organizations
- Colleges/Universities
- Research Firms
- Consulting Firms
- Oil Refining or Extraction Firms
- Nuclear Power Plants
- Pharmaceutical Firms
- Food and Drink Manufacturers
- Plastic Manufacturers



Skills Required

- Proficiency in oral and written communications
- Detail-oriented
- Ability to organize, analyze and interpret numerical data
- Creative approach to problem solving
- Critical thinking skills
- Ability to interpret data
- Ability to work independently or as part of a team
- Ability to concentrate for long periods of time



Personal Attributes

- Achievement-oriented
- Capacity for detail and order
- Capacity for analytical and logical thinking
- Patient
- Capacity for precision
- Thorough
- Skills with numbers
- Resourceful
- Have integrity



Ways to Get Experience

- Doing an internship
- Working part-time or volunteering in an engineering firm
- Volunteering as a research assistant in a university's chemical engineering department
- Joining a professional organization or related student club