



Northeastern University
University Career Services

WHAT CAN I DO WITH A DEGREE IN Chemical Engineering

www.northeastern.edu/careerservices

OVERVIEW

Chemical engineers apply the principles of chemistry and engineering to solve problems involving the production or use of chemicals, building a bridge between science and manufacturing. They design equipment and develop processes for large-scale chemical manufacturing, plan and test methods of manufacturing, treat the by-products of manufacturing and supervise production. Chemical engineers create drug delivery systems, numerical models for atmospheric pollution problems, as well as magnetic and electronic materials. They also work in a variety of manufacturing industries such as those producing electronics, photographic equipment, clothing, and pulp and paper.

Concentrations: Biochemical Engineering and Interdisciplinary Materials Minor

Department website: <http://www.northeastern.edu/che/>

SAMPLE JOB TITLES

Agricultural Engineer	Geoscientists
Astronaut	Microbrewer
Chemical Engineer	Nuclear Engineers Soil & Water Conservationists
Engineer Manager*	Nuclear Equipment Operations Technicians
Entrepreneur*	Product Safety Engineer
Environmental Engineer*	Regulator
Field Manager*	Researcher
Foresters	

Positions that require additional education or training are indicated by a ().*

Job qualifications are based not only on degree program, but on skills and experience. Students should seek out as many experiential opportunities in their fields of interest as possible, including Co-op and internships.

TYPES OF EMPLOYERS

Architectural Chemicals	Motor Vehicle Parts Manufacturing
Atomic Energy	Natural Gas Distribution
Automotive & Airline	Oil & Gas Extraction
Chemical Manufacturing	Paper, Metals & Plastics
Cosmetic	Pharmaceutical & Medicine Manufacturing
Department of Energy	Research & Development
Engineering	Research Hospitals
Environmental Protection Agency	Resin, Synthetic Rubber, Artificial Synthetic
Fibers & Filaments Manufacturing	Support Activities for Mining
Food & Beverage	Textiles & Rubber
Management, Scientific & Technical Consulting	

INTERNSHIPS

These sample titles can be used to research internship opportunities in the field.

Membrane Science Internship
Micro/Nano - Structured Materials,
Therapeutics, and Devices Internship
Nanobiotechnology Internship

The following websites may assist in finding summer Research Experiences for Undergraduates (REUs)

National Science Foundation
http://www.nsf.gov/crssprgm/reu/list_result.cfm?unitid=10006

To search for internship opportunities, login to [Husky Career Link](#), Career Services' online job and internship bank for opportunities with employers seeking to hire NU students.

CO-OPS

For more information, please visit the department's website.

Students enrolled in the *College of Professional Studies* may click [here](#) for co-op and internship information.

CAREER EXPLORATION & JOB POSTINGS

The following resources include various websites and campus resources that will aid you in exploring this career field and industry.

CAREER & JOB WEBSITES

[MassCIS – Massachusetts Information System](#)

[Bureau of Labor Statistics – Occupational Outlook Handbook](#)

[Vocational Biographies](#) (username: NE Univ; password: RAZDE)

[O*NET OnLine](#)

[Chemical Engineer](#)

[Job Central](#)

[Simply Hired](#)

[Engineering Central](#)

[Environmental Engineer](#)

[Engineer Employment](#)

CAMPUS ORGANIZATIONS & ACTIVITIES

[American Institute of Chemical Engineers](#)

[Society of Women Engineers](#)

[Engineers Without Borders](#)

[Tau Beta Pi: Engineering Honor Society](#)

**For additional student organizations click [here](#).*

**For additional student activities click [here](#).*

PROFESSIONAL ASSOCIATIONS

Find valuable industry information, job sites, and professionals in the field you may contact for informational interview requests and networking opportunities.

[American Chemical Society](#)

[American Institutes of Chemical Engineers](#)

[ASTM International](#)

[American Nuclear Society](#)

[American Petroleum Institute](#)

[Biomedical Engineering Society](#)

SOCIAL MEDIA

Sample LinkedIn.com Groups providing resources such as industry trends, company information, job listings, and networking opportunities within the field:

[Chemical Engineer Jobs](#)

[American Institutes of Chemical Engineers](#)

[Chemical Process Engineers](#)