



## CHEMICAL ENGINEERING

Chemical engineers are primarily concerned with process engineering: the conversion of raw materials into valuable products. The products can include pharmaceuticals, specialized plastics, petrochemicals, materials for biomedical applications, and energy. The processes, which usually start out at a small laboratory scale, must be developed for production at a large chemical plant scale. The large change in scale requires careful engineering to minimize environmental contamination and ensure public safety.

The chemical engineering curriculum is structured so that students progress through sequences in the fundamental physical sciences, humanities, engineering sciences, and engineering design. All of the courses emphasize modern theories of chemistry and are designed to help students gain a clear understanding of their eventual assignments in engineering science and design. As students progress to courses in engineering science and design, problems of a textbook nature give way to real-world examples. By senior year, students are involved in comprehensive design projects.

Students wanting specific information about the major are encouraged to stop by the department office in the Center for Automation Technology (CAT), Room 288, call 215.895.2227, or visit [drexel.edu/cbe](http://drexel.edu/cbe).

### Employers Who Have Hired Drexel Students Include:

Air Products & Chemicals, Inc.  
Drexel University  
Estee Lauder/Northtec  
ExxonMobil  
GlaxoSmithKline  
Johnson & Johnson  
Johnson Matthey Inc  
Merck  
Monroe Energy  
Philadelphia Water Department  
USDA

## JOB TITLES

Chemical Engineer  
Chemist  
Consulting Engineer  
Environmental Engineer

Process Engineer  
Research & Development Engineer  
Utility Program Associate  
Water Resources Co-op

Please refer to [drexel.edu/scdc/salaryguide](http://drexel.edu/scdc/salaryguide) for our most recent co-op salary information.

## PROFESSIONAL ASSOCIATIONS & INTERNET RESOURCES

**American Association of Engineering Societies**  
aaes.org

**Chemical Engineers' Resource Page**  
cheresources.com

**Chemical Engineer**  
chemicalengineer.com

**Engineers' Club of Philadelphia**  
engrclub.org

**American Chemical Society**  
acs.org

**National Society of Black Engineers**  
nsbe.org

**Society for Women Engineers**  
swe.org

**Drexel University Chapter Society of Women Engineers**  
drexel.swe.org

## CAREER RESOURCES

**Résumé, Interviewing, and Job Search Best Practices**  
drexel.edu/scdc/professional-pointers

**Workshop Calendar**  
drexel.edu/scdc/calendars-events/workshops

## DREXEL DEPARTMENTS

**Department of Chemical & Biological Engineering**  
3141 Chestnut Street  
Center for Automation Technology (CAT), Room 288  
215.895.2227  
drexel.edu/cbe

**Career Services Library  
Careers Collection**  
Hagerty Library  
33<sup>rd</sup> and Market Streets, Room 136  
libguides.library.drexel.edu/careers