



## MATERIALS SCIENCE AND ENGINEERING

Materials science and engineering is an interdisciplinary field that is the foundation for many engineering applications. Materials engineers extend the limited supply of materials; improve existing materials; and develop new, superior, and sustainable materials and processes with an awareness of cost, reliability, safety, and ecological implications. Materials engineers also address the pivotal role of materials selection and performance in energy applications, including generation, conversion, and storage.

Drexel's bachelor of science in materials science and engineering gives students a comprehensive understanding of the selection, production, properties, characterization and use of ceramics, composites, electronic materials, metals, and polymers. Students are introduced to the cutting-edge fields of nanomaterials, biotechnology, materials for energy, and nuclear materials science. Their studies can be complemented with courses in business to prepare future entrepreneurs. Materials science and engineering is an excellent first degree for those who are interested in pursuing subsequent studies in law leading to professional opportunities in the fields of intellectual property and technology.

Students seeking specific information about the major are encouraged to contact the department office in LeBow Room 344, call the department at 215.895.2323, or visit the department's website at [drexel.edu/materials](http://drexel.edu/materials).

### Employers Who Have Hired Drexel Students Include:

Carpenter Technology Corp.  
CERTAINTEED Corporation  
Colorcon, Inc.  
Drexel University  
DSM Biomedical/Kensey Nash Corporation  
Elzly Technology Corporation  
Johnson & Johnson  
Philadelphia Water Department  
Siva Corrosion  
SPS Technologies

## SAMPLE JOB TITLES

Research Assistant  
R&D Co-op  
Biomaterials Research Co-op  
Metallurgy Co-op

Polymer Commercialization Co-op  
Corrosion Engineer  
Materials and Process Engineer  
Manufacturing and Quality 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

**ASM International**  
asminternational.org

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

**The Minerals, Metals, & Materials Society**  
tms.org

**Society of Women Engineers**  
societyofwomenengineers.swe.org

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

**Engineers Club of Philadelphia**  
engrclub.org

**American Society for Engineering Education**  
asee.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

**Materials Science and Engineering Department**  
LeBow Building, Room 344  
215-895-2211  
drexel.edu/materials

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