



## MATERIALS ENGINEERING

Materials 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. Innovation in materials offers exciting entrepreneurial opportunities.

Drexel's Bachelor of Science in Materials 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 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 wanting specific information about the major are encouraged to stop by the department office at room 334 of the LeBow Building, call the department at 215-895-2323, or visit the department's website at [www.materials.drexel.edu](http://www.materials.drexel.edu).

<b>Employers who have employed Drexel students include:</b>
<p>Animas Corporation Arkema Army Research Laboratory Boeing Helicopters Carpenter Technology Corporation E. I. DuPont De Nemours &amp; Co Exponent Intel Merck Micron Technology National Nanotechnology Laboratory; Lecce, Italy Siemens Sunoco Synthes Teleflex Medical Devices Walt Disney World Company</p>

## JOB TITLES

- |  |                                    |
|--|------------------------------------|
| Applications Chemist                             | Material Engineer                  |
| Engineering Assistant                            | Process Engineer                   |
| Business Development Co-op                       | Project Manager                    |
| Maintenance and Reliability Engineer             | Product Yield Enhancement Engineer |
| Materials Characterization Technology Researcher | Quality Control Technician         |
| Research Assistant                               |                                    |

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

# PROFESSIONAL ASSOCIATIONS & INTERNET RESOURCES

**American Association of Engineering Societies**

[www.aaes.org](http://www.aaes.org)

**National Society of Black Engineers**

[www.nsbe.org](http://www.nsbe.org)

**American Society for Engineering Education**

[www.asee.org](http://www.asee.org)

**Society of Women Engineers**

[www.swe.org/](http://www.swe.org/)

**ASM International**

[www.asminternational.org](http://www.asminternational.org)

**The Minerals, Metals, & Materials Society**

[www.tms.org](http://www.tms.org)

**Engineers Club of Greater Philadelphia**

[contact@engrclub.org](mailto:contact@engrclub.org)

## CAREER RESOURCES

**Steinbright Career Development Center**

**Pre-Professional Advising (Prelaw, Prehealth)**

[www.drexel.edu/scdc/careerservices/pre-professional-advising/index.html](http://www.drexel.edu/scdc/careerservices/pre-professional-advising/index.html)

**Writing Your Resume**

[www.drexel.edu/scdc/coop/COOP101/materials/writingyourresume.html](http://www.drexel.edu/scdc/coop/COOP101/materials/writingyourresume.html)

**Interviewing**

[www.drexel.edu/scdc/coop/COOP101/materials/interviewing.html](http://www.drexel.edu/scdc/coop/COOP101/materials/interviewing.html)

**Workshop Calendar**

[www.drexel.edu/scdc/events/workshops/coop-workshops.html](http://www.drexel.edu/scdc/events/workshops/coop-workshops.html)

## DREXEL DEPARTMENTS

**Career Services Library**

**Careers Collection**

Hagerty Library

33<sup>rd</sup> and Market Streets, Room 136

215-895-6843

[www.library.drexel.edu/services/refcareers.html](http://www.library.drexel.edu/services/refcareers.html)

**Materials Science and**

**Engineering Department**

LeBow Building, Room 334

215-895-2211

[www.materials.drexel.edu](http://www.materials.drexel.edu)