What can I do with a Degree in *Materials Science and Engineering*?

In the materials field, there are exciting jobs in academia and industry that utilize the **problem-solving skills** that *only an engineering background can give you*!

Our graduates are more than engineers: they go on to become CEOs, professors, doctors, lawyers, and more.

A degree in Materials Science and Engineering can take you anywhere!

How do I get Involved in Research?

Q: I am a freshman interested in getting my hands dirty in the lab and working with high-tech equipment. Can I do research in materials?

A: **Yes!**

Our department offers hands-on research opportunities for undergraduate students in our labs starting freshman year—many of them paid or offering course credit. These positions allow you to make **meaningful contributions** to ongoing faculty research projects.

Undergraduates are important members of our research teams!

How can I get more information or arrange a visit?

Come visit us! We invite you to visit the Department of Materials Science and Engineering at Drexel University. We can work with you to schedule lab tours and meet one-on-one with faculty, staff, and students.

Contact us at

215.895.2323

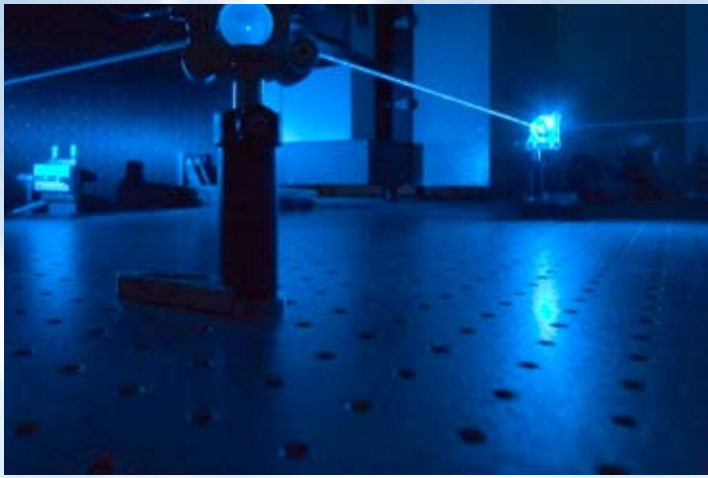
Materials@coe.drexel.edu

Department of Materials Science and Engineering
Drexel University
3141 Chestnut St.
Philadelphia, PA 19104

WWW.MATERIALS.DREXEL.EDU

Drexel University

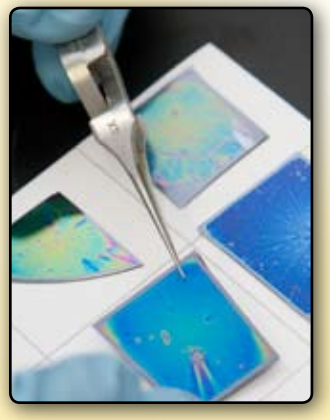
Department of Materials Science and Engineering



Drexel UNIVERSITY

What is *Materials Science and Engineering*?

Did you ever wonder who designed the MP3 player you're listening to or the computer you're using? Did you ever think about what makes your bicycle lightweight or how your cell phone works?



All of these things (and more) are made from materials developed by materials scientists and engineers!

With a degree from Drexel University's Department of Materials Science and Engineering, you could go on to:

- Design new, unique energy efficient buildings
- Develop sensors that will help solve global health or environmental issues
- Discover or create new materials that could improve the way we live!

As a student of materials, you will explore the endless possibilities offered by materials research!

(215) 895-2323

What do Materials Scientists and Engineers *Do*?

The **Drexel co-op program** is a great way to find out! Co-op education combines classroom learning with **full-time employment**, giving you the opportunity to gain **real world** experience in materials science and engineering before graduation.

Materials Science and Engineering majors have gained practical experience at engineering companies **around the world**, including:

- **Arkema**
- **Bristol Myers Squibb**
- **Comcast**
- **Department of Energy**
- **DuPont**
- **Empa Dübendorf, Switzerland**
- **Merck & Co., Inc.**
- **Micron Technology, Inc.**
- **Naval Surface Warfare Center**
- **PECO Energy**
- **Rohm and Haas**

In 2006, Materials Science and Engineering majors earned an average of $528/week on their first co-op and $627/week on their third co-op.

materials@coe.drexel.edu

Specialization

in one of five exciting areas

Biomaterials & Biotechnology

- Advanced medical devices, drug delivery systems, tissue engineering
- Careers in the medical industry, pharmaceuticals

Nanomaterials & Nanotechnology

- Carbon nanotubes, nanorobots, sensors for targeted applications
- Careers in nanotechnology, materials science, bioengineering

Advanced Materials Design & Processing

- Innovation, design, and manufacturing
- Careers in industry, national labs, manufacturing

Polymers & Soft Materials

- Polymers, gels, foams, liquid crystals, colloids, biomacromolecules
- Careers in chemical companies, computer industry

Electronic & Photonic Materials

- Electronics, computing, memory storage
- Careers in materials science, electrical engineering, physics, chemistry

Create Your Own Track

- Any area of interest to you!
- Careers in any engineering discipline

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