

Robert R. McComsey Career Development Center



Careers In...Materials Science & Engineering

Alfred University
Alfred NY 14802

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Hours: 8:30-4:30 Monday-Friday

Walk-in hours: 1:00-4:30 Tues., Wed., and Thurs.

The Industry

Digital electronics integrate metals, ceramics and plastics into systems having unique properties and performance. In order to develop these multi-material or "composite" technologies, materials scientists and engineers must understand the fundamentals of many different types of materials and the interactions between them. Composite materials can also include living biological systems, the focus of biomedical materials scientists.

Materials Engineers and Scientists can be found in all these industries:

- Electrical/Electronics
- Automotive
- Aerospace
- Chemical
- Pharmaceutical and Biotechnology
- Radio and television
- Nanotechnology
- Computers
- Telecommunications
- Aluminum and Steel
- Sports and Athletic Equipment
- Space exploration
- Transportation/highway departments
- Internet
- Imaging
- Household appliances
- Health technologies
- Petroleum and natural gas
- Laser and fiber optics
- Nuclear technologies
- Plastics
- Packaging

Our Graduates...Where Are They Now?

Within the past few years, graduates have obtained jobs as...

Reliability Scientist – Corning, Inc.

Combustion Engineer – Owsen-Illinois

Edison Program -- GE

Technician III – Adecco Technical at Corning, Inc.

Management Associate – US Steel

Associate Metallurgist – SKF – MRC Bearings

Process Engineer – Cardinal Corporation

Project Engineer – Kore Mart Limited

Research Engineer – Cooper Power Systems

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Pilot Plant Engineer – Borden Foods
Quality Control Technician – AFG Industries
Material Engineer – Pratt & Whitney
Manufacturing Product Engineer – Kodak Co.
Division Process Engineer – Corning Inc.
Patent Examiner – US Patent & Trademark Office
Senior Engineer - Beijing Institute of Aeronautical Materials

...and have attended graduate school at:

American InterContinental University (Education in Instructional Tech.)
Colorado School of Mines (Material Sciences & Metallurgy)
North Carolina State (Materials Science & Engineering)
University of Tennessee (MBA/Engineering Science)
University of Arizona (Biomedical Engineering)
University of Texas at Austin (Mechanical Engineering)
Alfred University (Biomedical Materials Engineering Science, Materials Science, Business Administration, Glass Science)
Cornell University (Theoretical and Applied Mechanics, Fiber Science)
North Carolina State University (Materials Science)
University of Florida (Materials Science)
University of New Hampshire (Materials Science)
Tufts University (Chemistry)
Penn State University (Materials Science & Engineering)
University of Missouri-Rolla (Ceramic Engineering)
West Virginia University (Business Administration)

Get Experience on Campus

Although co-ops are considered the best preparation for your job search, you can get a head start by gaining experience on campus.

- Become a laboratory or teaching assistant, or a tutor
- Get involved in undergraduate research with a faculty member or a graduate student
- Participate in a student chapter of a professional organization such as IEEE (Institute of Electronic and Electrical Engineers), SWE (Society of Women Engineers), ASME (American Society of Mechanical Engineers), ACerS (American Ceramic Society), Keramos, etc.
- Participate in the annual soapbox derby, Battlebots, etc.
- Plan to attend the Materials Research Society's biannual meetings and placement center

Where to go from here?

- Individual career counseling for anything from choosing a major to getting a job
- Saxon JobLink web services (www.alfred.edu/cdc) to post a resume and more
- InternTrak, on CDC's website, for assistance in finding internships and co-ops
- Saxon Career Volunteer network – speak to alumni in your career field
- Choices CT computerized program for searching graduate schools
- Web resources: Materials Research Society (www.mrs.org), American Ceramic Society (www.ceramics.org), or ask us for a list of suggestions.