

MIT Engineering Majors Guide

Materials Science and Engineering (Course 3)

Skill Set

- Create new materials
- Design and develop improved materials and devices
- Manufacture cost effective materials
- Understanding of structure, properties, and basic behavior of materials

Industry Occupations

Environmental Interactions	Medical Applications	Aeronautics
Metallurgical	Pharmaceuticals	Modeling
Physical Chemistry	Thin Films	Research & Development
Automotive	Biological Materials	Ceramics and Glasses
Composites and Joining	Device Materials	Electronics

For in-depth information on Material Science visit <http://www.careerplanit.com/resource/profile.asp> or to explore other careers, peruse the Occupational Outlook Handbook <http://stats.bls.gov:80/ocohome.htm>

Careers of Materials Science & Engineering Alumni

- Cabot, Global Product Line Manager
- Dupont Chemical, Laboratory Director
- CerMem Director of Product Development
- Tribology Associates Inc., President
- Exponent, Engineer
- ABC International, Consultant
- Motorola, Process Engineer
- Lucent, Operations Planning Manager

To contact alumni in your area of interest, check out the ICAN network at <http://alum.mit.edu/cs/ican/index.html>

Internships

Programs at MIT

Undergraduate Practice Opportunities Program, <http://web.mit.edu/engineering/upop/>

Jobs and Internships During and After MIT

Monstertrak - On Campus Recruiting <http://www.monstertrak.com>

Companies who recruit Materials Science Engineers

Guidant	Advanced Micro Devices	Intel Corporation
Motorola	Johnson & Johnson	Dow Corning
Lucent Technologies	Silicon Graphics	Allegheny Ludlum Corporation
Applied Materials	Ford Motor Company	Hughes Aircraft Company
3M	Michelin Tire	National Semiconductor
Philips Laboratories	Polaroid Corporation	Texas Instruments
AMP Incorporated	Raychem Corporation	General Motors

Career and Job Search Internet Resources

- Jobs in MATERIALS & METALS <http://www.tms.org/pubs/journals/JOM/classifieds.html>
- Materials Jobs.com <http://www.MaterialsJobs.com/>
- Materials Science & Engineering Career Resource Center <http://www.crc4mse.org/>
- Materials Science & Nanotechnology <http://www.nature.com/naturejobs/index.html>

Salary Information

MIT Salary Survey, <http://web.mit.edu/career/www/infostats/>

Professional Associations

- The American Ceramics Society <http://www.acers.org>
- The American Society of Materials <http://www.asm-intl.org/>
- Electrochemical Society <http://www.electrochem.org/>
- Materials Research Society <http://www.mrs.org/>
- The Minerals, Metals & Materials Society <http://www.tms.org/TMSHome.html>
- MIT's Association of Materials Science Students (AMaSS)
- MIT's Society of Undergraduate Materials Scientists <http://web.mit.edu/dmse/sums>
- MIT's Society for Biomaterials <http://web.mit.edu/sbm/www/index.html>

Departmental Homepage

MIT Department of Material Science and Engineering <http://www-dmse.mit.edu>

Next Steps

Explore other career engineering majors guides located at <http://web.mit.edu/career/www/Engineering/guides.htm>.

Network with current students, alumni /nae in your area of interest.

Visit the MIT Careers Office to schedule an appointment with a counselor in the School of Engineering to discuss career choices.