Pittsburgh

Once the industrial hub for steel, iron and glass production, Pittsburgh is now a center for technology, robotics and medicine. Today, Pittsburgh skies and famous three rivers are clean, and the city is known for its exciting cultural scene, architecture, neighborhood charm and professional sports teams. Located in southwestern Pennsylvania, Pittsburgh is located half-way between New York and Chicago, and within a two-hour flight from most East Coast cities.

Carnegie Mellon University

About Carnegie Mellon University: Carnegie Mellon www.cmu.edu is a private, internationally ranked research university with programs in areas ranging from science, technology and business, to public policy, the humanities and the arts. More than 13,000 students in the university’s seven schools and colleges benefit from a small student-to-faculty ratio and an education characterized by its focus on creating and implementing solutions for real problems, interdisciplinary collaboration and innovation.

Carnegie Mellon University does not discriminate in admission, employment or administration of its programs or activities on the basis of race, color, national origin, sex, handicap or disability, age, sexual orientation, gender identity, religion, creed, ancestry, belief, veteran status or genetic information. Furthermore, Carnegie Mellon University does not discriminate and is required not to discriminate in violation of federal, state, or local laws or executive orders. Inquiries concerning the application of and compliance with this statement should be directed to the vice president for campus affairs, Carnegie Mellon University, 5000 Forbes Avenue, Pittsburgh, PA 15213, telephone 412-268-2056.

Carnegie Mellon University publishes an annual campus security and fire safety report describing the university’s security, alcohol and drug, sexual assault and fire safety policies and containing statistics about the number and type of crimes committed on the campus and the number and cause of fires in campus residence facilities during the preceding three years. You can obtain a copy by contacting the Carnegie Mellon Police Department at 412-268-2323. The annual security and fire safety report is also available online at www.cmu.edu/police/annualreports.

Department of Materials Science and Engineering
Carnegie Mellon University
5000 Forbes Avenue, Wean Hall 3325
Pittsburgh, PA 15213
412.268.2700
http://www.cmu.edu/engineering/materials/
The Department of Materials Science and Engineering is an internationally recognized leader in materials research and education. The Department of Metallurgical Engineering was founded in 1906 and became the Department of Materials Science and Engineering in 1992. Today, the department is home to a vibrant community of researchers and students committed to advancing the forefront of knowledge regarding the structure, properties, processing and performance of materials. MSE faculty conduct a wide range of experimental and theoretical research with four main areas of concentration:

- Electronic, Magnetic and Optical Materials
- Microstructural Science
- Iron and Steelmaking Research
- Soft and Biomaterials

MSE graduates are currently pursuing careers in an expanding field of companies, national laboratories and universities; reflecting the wide range of materials-related endeavors in the industry, including energy production and storage, biomedical applications, microelectronics, aerospace, nanotechnology, information technology and manufacturing and materials production.

Students have access to the Career and Professional Development Center at CMU with Career Consultants dedicated to work with engineering graduate students in their job search.

The M.S. in Materials Science (MATSCI) degree combines both coursework and research to provide an advanced foundational education to professionals interested in research careers in Materials Science and Engineering (MSE). Our M.S. in MATSCI degree provides the foundation at the graduate level of all activities in coursework, while allowing for flexibility in individual research interests.

The M.S. in MATSCI degree is well suited to include projects involving industrial interactions and/or interdisciplinary work. The degree requirements are broken down into two categories, each requiring 72 units: coursework and project work. Students normally complete the degree in 3-4 academic semesters.

72 units of coursework:
- 24 units of the MSE graduate core courses
- 24 units of MSE graduate elective courses
- 24 units of approved MSE-related courses

Research: Students have access to more than 40 affiliated faculty to carry out materials science and engineering-related research. Students also have the opportunity to pursue a summer internship outside of the university between their second and third semesters. Students generally carry out all 72 project units on a single project, for which they must write an approved final report.

The degree requirements are broken down into four categories, each requiring 24 units:
- 24 units of the MSE graduate core courses
- 24 units of MSE graduate elective courses
- 24 units of approved MSE-related courses
- 24 units of approved graduate courses

DUAL DEGREE PROGRAM:
Students can choose to apply to our dual degree program, in which students can simultaneously pursue an M.S. in MSE and an M.S. in Engineering and Technology Innovation Management (ETIM). In this program, students are able to learn the fundamentals for leading technical innovation in addition to strengthening their knowledge in materials science and engineering. The program includes a required summer internship between the 2nd-3rd semesters of study.

http://engineering.cmu.edu/etim/dualdegree.php