MSE: Past and Present

• The School of Materials Science and Engineering (MSE) at Georgia Tech was founded in 1985 by combining the former School of Ceramic Engineering with the Metallurgy program housed in the School of Chemical Engineering.

• On July 1, 2010, MSE merged with the School of Polymer, Textile and Fiber Engineering, which was established in 1897 as the Textile Engineering program, the third school at Georgia Tech.

• Today, MSE at Georgia Tech is one of the largest Materials Science and Engineering programs in the country.

• Entrepreneurship is prevalent in MSE. Our faculty hold numerous patents and three faculty have start-up companies.

• MSE alumni include CEOs, CFOs, heads of R&D, faculty and department chairs, entrepreneurs, attorneys, doctors, and an astronaut.

U.S. NEWS & WORLD REPORT RANKINGS

No. 4 Undergraduate program
No. 9 Graduate program

DEGREES AWARDED – ACADEMIC YEAR 2013 - 2014

62 Bachelor’s Degrees
14 Master’s Degrees
27 Doctoral Degrees
Research

- The School of Materials Science and Engineering has a research portfolio that focuses on synthesis, processing, characterization, computations, and modeling, of all classes and forms of materials, including metals, ceramics, polymers, fibers, composites, textiles, nanostructures, and bio-enabled/biomimetic materials.

- Materials research addresses a multitude of functionalities from structural load-bearing applications to energy storage and harvesting, electronic, photonic, and opto-electronic devices, to drug delivery, bio-medical implants, and protection systems.

- Annual research expenditures in 2013 was ~$16M, with more than 150,000 man hours supported on sponsored research funds. Approximately 20% of research funding comes from industry.

- With the process-structure-property-performance paradigm as the core, research in MSE is targeted at envisioning, predicting, designing, and developing materials to meet societal challenges of today and tomorrow.
Degree Programs

Bachelor’s degree in:
• Materials Science & Engineering
  Concentration in:
  ▪ Biomaterials
  ▪ Polymer & Fiber Materials
  ▪ Structural & Functional Materials

Master’s degree in:
• Materials Science & Engineering
• Bioengineering
• Paper Science & Engineering

Doctoral degree with a major in:
• Materials Science & Engineering
• Bioengineering*
• Paper Science & Engineering*
• Joint GT-PKU with a major in Materials Science & Engineering

*denotes interdisciplinary programs
STUDENTS

• In fall 2013, 312 undergraduate and 170+ graduate students were enrolled in MSE.

• The average SAT score of freshman entering MSE in 2013 was 1441 (Verbal 703, Math 738).

• The students of MSE come from 24 states in the U.S. and 13 countries, including Australia, Macao, and Norway.

• Over one-third of MSE undergraduate students are scholarship recipients.

• One MSE undergraduate student was awarded the President’s Scholarship and seven received Summer Undergraduate Research Scholarships in 2013.

• Almost all of MSE students participate in co-op, internship, research, or study abroad programs.

• 113 students and 57 mentors participate in the MSE Industry-Student Mentoring Program.

FACULTY

• MSE has 38 faculty (34.49 FTE). An additional 24 faculty have courtesy/adjunct appointments; the total number of research active faculty is 61.

• Six Endowed Chair Professors and four Regents Professors are in MSE.

• 15 Professional Society Fellows (nine of more than two) are in MSE.

• Three MSE faculty are members of the U.S. National Academy of Engineering (NAE).

• One faculty is a member of the Chinese NAE and one faculty is a member of the Chinese National Academy of Science (NAS).

• In 2013, MSE faculty published 448 papers, were awarded 14 patents, and presented 292 invited seminars.
About Georgia Tech

- In fall 2013 there were 906 full-time instructional faculty and more than 13,000 undergraduate and 6,000 graduate students.

- According to U.S. News & World Report, Georgia Tech is ranked as the No. 7 public university in the country and No. 11 in the world in engineering.

- The College of Engineering undergraduate program is ranked No. 5 and the graduate program is ranked No. 6. All Georgia Tech engineering degree programs are ranked in the top ten.

- Georgia Tech ranks among the top 11 in research expenditures among universities without a medical school.

- PayScale.com ranks Georgia Tech number one in the nation for annualized return on investment in higher education.

School of Materials Science and Engineering
771 Ferst Drive
J. Erskine Love Building
Atlanta, GA 30332-0245
Phone: 404.894.2888
Email: info@mse.gatech.edu

www.mse.gatech.edu