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 and most diverse materials programs in terms of faculty expertise in the country.

- MSE has an open access "make and measure" space called The MILL - the Materials Innovation and Learning Laboratory.

- 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. 5 Undergraduate program  No. 8 Graduate program

DEGREES AWARDED – ACADEMIC YEAR 2016

73 Bachelor’s Degrees  9 Master’s Degrees  21 Doctoral Degrees
Research

• The School of Materials Science and Engineering has a research portfolio that focuses on all classes and forms of materials, including metals, ceramics, polymers, fibers, composites, textiles, nanostructures, and bio-enabled/biomimetic materials targeted at envisioning, predicting, designing, and developing materials to meet societal challenges of today and tomorrow.

• 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 expenditure in 2016 was ~$15.4M. Approximately 43% of research funding comes from industry.

• The Materials Characterization Facility, housed in the Marcus Nanotechnology Building, offers a wide variety of microscopy and characterization tools, as well as skilled staff to support research needs.

The Materials Innovation and Learning Laboratory, The MILL, is the student run MSE maker and measure space.
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

Doctoral degree with a major in:
  • Materials Science & Engineering
  • Bioengineering

An undergraduate minor in MSE is available for non-MSE majors.
STUDENTS - Fall 2017

- In fall 2017, 354 undergraduate and 193 graduate students were enrolled in MSE.

- Females represent 38% undergraduate students and 33% graduate students.

- The average SAT score of freshman entering was 1,478 (Verbal 726, Math 751).

- Students came from 31 states and 11 countries, including Brazil, Columbia, and Italy.

- Over one-third of our undergraduate students are recipients of merit scholarships.

- 11 undergraduate students received industry sponsored MSE Research Scholarships for their participation in summer research.

- 100% of MSE undergraduate students participate in a combination of co-op, internship, research, or study abroad programs.

- 150 students and 76 mentors participated in the MSE Industry-Student Mentoring Program.

- 7 graduate students received federal fellowships (NSF, SMART, NDSEG, Fulbright).

- About 20% of graduate students participate in industry or national lab internships.

FACULTY

- MSE has 38 faculty (33.6 FTE). An additional 24 faculty have courtesy/adjunct appointments, with a total of 62 research active faculty. MSE faculty is comprised 20% of female professors.

- Nine Endowed Chair Professors and five Regents’ Professors are in MSE; 36 professional society fellowships are held by MSE faculty.

- Two MSE faculty are members of the U.S. National Academy of Engineering (NAE), one is a member of the Chinese NAE, and one is a member of the Chinese National Academy of Science (NAS).

- In 2016, MSE faculty published 583 papers, filed 44 patents/disclosures, were awarded 10 patents, and presented 284 invited seminars.
About Georgia Tech

• In November 2016 there were over 1000 full-time instructional faculty, more than 15,000 undergraduate and almost 10,000 graduate students.

• According to U.S. News & World Report, Georgia Tech is ranked as the number seven top public university in the United States.

• The College of Engineering undergraduate program is ranked number four, the graduate program is ranked number seven, with all schools ranked in the top ten.

• The MSE undergraduate program is ranked number five, the graduate program is ranked number eight.

• Georgia Tech ranks among the top 10 in research expenditures among universities without a medical school.

• Georgia Tech is cited as one of the best values in American higher education by Payscale.com, Fortune, Forbes, the Kiplinger, and the Princeton Review.

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