An Overview of Georgia Tech for Motorola

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President
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Georgia Tech: Recognized for excellence

- Among top 10 public universities in the United States
- Among top 5 engineering schools in the United States
- Nationally ranked for computing, architecture, management, and selected science and liberal arts programs.
- Caliber of incoming freshmen among nation’s top 5 public universities.
Georgia Tech vision and mission

Georgia Tech will define the technological research university of the 21st century and educate the leaders of a technologically driven world.
Achieving the vision

- Excellence and innovation
- Best students, faculty, staff
- Innovative educational programs
- Interdisciplinary environment
- Leading-edge facilities, services
- Industry and community collaboration
- Optimal technology transfer
Five campuses on three continents

Georgia Tech Atlanta
Georgia Tech Savannah
Georgia Tech Lorraine
Georgia Tech Singapore
Georgia Tech Ireland
Students

18,000 students enrolled:

- 12,000 undergraduate students
- 6,000 graduate students
- Growing enrollment: added almost 5,000 students in the past 10 years.

Georgia Tech is a national leader in graduating engineers, including minorities & women.
A new breed of graduate who...

- Understands technology.
  Even liberal arts studies are imbued with technology.
- Knows how to ask questions as well as find answers.
  Almost half of undergraduates do structured research for credit.
- Has a sustainability perspective.
  Environmental sustainability pervades the curriculum.
- Is a citizen of the world.
  More than a third of undergraduates study abroad.
- Is prepared for leadership.
  Tech offers a multitude of leadership learning experience in and out of the classroom.
Diversifying engineering

- *Diverse: Issues in Higher Education*: Georgia Tech is No. 1 producer of African American engineers.
  - No. 1 in bachelor’s degrees
  - No. 2 in master’s degrees
  - No. 1 in doctoral degrees
- Georgia Tech awards over 10% of the PhDs in engineering earned by African Americans.
- Georgia Tech is first in the nation in enrolling and graduating female engineers.
- *Hispanic Business* ranks Tech as one of the nation’s best universities for Hispanic graduate engineering students.
Faculty

- 954 academic faculty
- 961 research faculty
- 208 post-doctoral fellows
- 125 endowed chairs and professorships
- 28 National Academy members
- 112 NSF CAREER Awards (2nd highest in the nation)
- 7 PECASE Awards (among top 10)
College of Engineering

- Ranked in nation’s top 5
- Largest in the nation
- National leader in degrees to women and minorities
- National rankings:
  - Industrial & systems engineering #1
  - Aerospace engineering #5
  - Mechanical engineering #7
  - Electrical & computer engineering #6
Hands-on learning

- Nation’s largest voluntary co-op program with over 2,700 students
- ¾ of co-op students are engineering majors
- 600 active industry partners
- Internships at home and abroad
- Consistently ranked among *U.S. News*’ “Programs to look for”
K-12 STEM outreach

- CEISMC (Center for Education Integrating Science, Mathematics and Computing)
- First Robotics Competitions, RoboCup
- STEP Program
Annual research expenditures
(in millions)

1,884 awards

2,441 awards
Interdisciplinary research thrusts

Energy

High performance computing

Sustainability

Disasters, water
Interdisciplinary research thrusts

- Nano-medicine
- Robotics
- Systems biology
- Electronic health systems
Sponsored R&D at Georgia Tech

- Over $50 million in industry R&D
- $102 million in defense R&D
- Classified and unclassified R&D
- Experience with industry IP, import/export regulations (ITAR, EAR), and publications
- R&D operations at international campuses in Europe, Singapore
Motorola is a long-time partner

- Founding member of Georgia Tech Manufacturing Research Center
- Support for the School of Electrical and Computer Engineering:
  - Motorola Foundation GRA Chair: Fred Juang
  - Motorola Foundation Professor: Kevin Kornegay
  - Electronic Packaging Research Center partner
- Georgia Electronic Design Center partner
Helping Georgia Tech students

- Employs about 250 Tech alumni
- Co-op assignments, internships for students
- Support for:
  - Women in Engineering (WIE)
  - Office of Minority Educational Development (OMED)
  - Center for Education Integrating Science, Mathematics and Computing (CEISMC)