• Among top 10 public universities
• Among top 5 engineering schools
• Nationally ranked for computing, architecture, management, and selected science and liberal arts programs
The Strategic Plan of Georgia Tech

Defining the technological university of the 21st century

“The mission of Georgia Tech reflects a commitment to the state of Georgia to shape futures through innovation in all areas of endeavor.”

The Strategic Plan
Fall Enrollment hits record high

- Total
- Undergrad
- Graduate

Enrolled at GT sites off campus

<table>
<thead>
<tr>
<th>Year</th>
<th>Total</th>
<th>Undergrad</th>
<th>Graduate</th>
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</table>
Students and Academic Programs

11,000 undergraduates
4,500 graduate students
Graduate most engineers in nation

80+ interdisciplinary centers

Interdisciplinary degrees
bioinformatics
bioengineering
human-computer interaction
quantitative computational finance
Attracting quality undergraduates

Freshman Applications

Freshman SAT Score
Graduate students smarter, too

Applications

GRE Scores

'98 '99 '00 '01

4000
3000
2000
1000
0

1900
1860
1840
1880
1900
1920
1940
1960

'98 '99 '00 '01

1900
1860
1840
1880
1900
1920
1940
1960

'98 '99 '00 '01
Georgia Tech’s global reach
A quality undergraduate experience

Hesbergh Award for innovative programs to support undergraduate teaching and learning

Undergraduate initiatives
Research opportunities
Leadership development
International study programs
Faculty’s star is also rising

833 full-time academic faculty
115 endowed chairs and professorships
25 members of National Academies
14 Fulbright Scholars
13 National Endowment for the Humanities Fellows
Developing tomorrow’s technology

Entomopter can fly in Mars’ thin atmosphere.

Growing a new pancreas in the lab from tissue.

Engineering the ‘96 and ‘02 Olympic torches.

Nevatron is the world’s smallest atom storage ring.
National policy resource

- President’s Council of Advisors on Science and Technology
- Council on Competitiveness
- Science Coalition
- Center for Strategic and International Studies
- European Union Center
No. 1 in graduating African Americans and women in engineering
Value of Endowment Funds
(in millions)

- '91: $0
- '93: $200
- '95: $400
- '97: $600
- '99: $1,000
- '01: $1,200
A campus worthy of our aspirations

Under construction
Technology Square
Ford Motor Company
Environmental Science and Technology Building
More projects underway soon

Klaus Advanced Computing Technology Building

Olympic Recreation Center

Undergrad Learning Center

Home Park Learning Center
A great tradition as Atlanta’s favorite hometown college team
Athletes Shine
Quality athletic stadia

Rebuilding underway
Russ Chandler Baseball Stadium
Bobby Dodd Stadium
Georgia Tech’s vision for the future

**Strengthening our leadership**

- In emerging new interdisciplinary fields
- In innovation and entrepreneurship
- In educating the technological workforce businesses need
- In serving the businesses of Atlanta and Georgia
A National Leader in Research

- Top 30 in total expenditures
- 4th in industry-sponsored research
- 2nd in engineering research
- 11 National Centers of Excellence
- 1 of 6 universities that manage Oak Ridge National Laboratory
Research Growth
1990-91 to 2000-01

Nationally Supported Centers
1 (90-91) → 11 (00-01)

Contract Companies*
65 (90-91) → 133 (00-01)

*contracts of $50,000 or greater
Research Expenditures
(in millions)

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<th>Year</th>
<th>Expenditures (in millions)</th>
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</table>
R&D Organization

- Six Colleges
  - Architecture
  - Computing
  - Engineering
- Ivan Allen
- Management
- Sciences
- Georgia Tech Research Institute (GTRI)
- Research Centers
- Yamacraw
- Economic Development Institute (EDI)
  - Advanced Technology Development Center (ATDC)
Selected Interdisciplinary Research Centers

- Advanced Telecommunications Technology (GCATT)
- Biosciences/Bioengineering (IB²)
- Center for International Business Education and Research
- Entrepreneurship & New Venture Development
- Electronic Packaging (PRC)
- European Center
- Geographic Information Systems
- Graphics, Visualization & Usability
- Information Security Center
- Interactive Media Technology
- Logistics
- Manufacturing (MaRC)
- Microelectronics (MiRC)
- Specialty Separations
- Sustainable Technology & Development
Yamacraw is an economic development initiative to make Georgia a world leader in the design of broadband communications systems, devices, and chips. The state of Georgia created a $5 million seed capital fund to facilitate the growth of member companies. Currently, 20 companies are full or emerging members. Yamacraw research is grouped in three targeted areas of broadband technology:

- Embedded software
- Broadband Access Devices
- Systems Prototyping/Content Manipulation
Economic Development and Technology Ventures

- Top rated incubator in the country
- Advanced Technology Development Center
  - 42 start-up companies presently under its wing
  - almost $700 million in revenues last year
  - 21% of venture capital for state, 3rd quarter 2001
- Economic Development Institute
  - 18 regional offices around the state
  - 1,220 assists to businesses during 2001
Patent Developments

• For 2001, Georgia Tech was 4th in the state in patents awarded, behind:*
  – Coca-Cola
  – Scientific-Atlanta
  – Siemens Energy & Automation

• Last year, a record 35 U.S. patents were issued for Tech research

*Atlanta Business Chronicle
Global Perspective

1973 First Study Abroad Program, Chemical Engineering Summer Program at University College, London
1975 Architecture Program, Paris
1991 Georgia Tech Lorraine
1999 Oxford Program
1999 Georgia Tech Regional Education Program (GTREP)
2000 The Logistics Institute, Asia-Pacific
2001 Partnership with the National University of Singapore
2001 Joint Program in Chemistry & Chemical Engineering with Imperial College
Georgia Tech Lorraine

- European platform of Georgia Tech – Located on the Technopôle Metz 2000
- Master’s of Science, Electrical & Computer Engineering, and Mechanical Engineering
- Dual degree programs and partial fulfillment of Ph.D.
- Undergraduate engineering summer programs and European Council summer program
- Research Partnership with the Centre National de la Recherche Scientifique (CNRS)
Innovations: SmartShirt

Allows the comfortable monitoring of individual biometric data, such as heart rate, respiration rate, body temperature, caloric burn, body fat, and UV exposure and provides readouts via a wristwatch, PDA, or voice.

“The shirt that thinks”

One of *Time* magazine’s five “Inventions of the Year” (2001)
"The purpose for the Aware Home Research Initiative is to investigate what kinds of services can be built on top of an environment that is aware of the activities of its occupants." - Gregory Abowd, College of Computing.

The Gesture Pendant recognizes and translates simple hand gestures into commands for home appliances.

The screen of the Digital Family Portrait indicates the weather, inside temperature, and the level of room-to-room movement.
Scientists are scrambling for better ways to detect anthrax bacteria because existing tests can take hours if not days. Researchers at Georgia Tech and Emory aim to produce results in the field using Cycling Probe Technology. Just drop a sample in a test tube containing a DNA-sensitive chemical, and the liquid will turn blue in only 45 minutes if anthrax is present.

**Cycling Probe™ Technology**
- genomics detection platform
- detect the presence of biological warfare agents
- simplicity, speed and low cost
- can be put on chip (Tech’s job!)