Vision for Georgia Tech

Define the technological research university of the twenty-first century
Georgia Tech: Recognized for excellence

- Among top 10 public universities in the nation.
- Among top 5 engineering schools in the nation.
- Nationally ranked: computing, architecture, management, selected science and liberal arts programs.
- SAT score among nation’s top 5 public universities.
- 15 national centers of excellence
Students

16,800 students enrolled:

- 11,500 undergraduate students
- 5,300 graduate students
- 16,200 in Atlanta.
- Growing enrollment: added 3,800 students in the past 10 years.

Georgia Tech is a national leader in graduating engineers, including minorities & women.
Gates Scholar Anthony Hylick to pursue Ph.D. at Cambridge.

John Parish wins Goldwater Scholarship to continue undergrad studies at Tech.

Alexandra Pajak is one of eight student authors in a new book *What We Think: Young Voters Speak Out*. 
Undergraduate initiative

- Student computer initiative; Web-enhanced curriculum.
- Mid-semester grade reports and follow-up help for lagging students.
- Undergraduate research opportunities: 40%.
- Expanded international study options: 33%.
- Enhanced student life/leadership options.
- Results – retention and graduation rates headed up.
Interdisciplinary degrees

- Human-computer interaction
- Bioinformatics
- Quantitative and computational finance
- Prosthetics and orthotics
- Digital media
- Biomedical engineering
Interdisciplinary Research

- Sustainable technology
- Nanotechnology
- Biotechnology/nanomedicine
- Photonics/optics
- Microelectronics/telecommunications
- Logistics
- Manufacturing
- Nanotechnology
- Biotechnology/nanomedicine
- Photonics/optics
- Microelectronics/telecommunications
- Logistics
- Manufacturing
Research milestones

- Expenditures: $415 million (FY 04); new high for 8th straight year
- Among nation’s top 5 universities without medical school
- Invention disclosures: 277
- 15 start-up companies spun out
“Age of biology” arrives at GT

- 15 new degree programs in 8 interdisciplinary fields during the past five years.
- Since Fall of 2001…
  - Undergraduate enrollment up 42% to 1,500.
  - Graduate enrollment up 60% to 755.
  - PhD degrees awarded up 100% to 180.
- Faculty up 94% to 128 positions since FY 2000.
- Research awards up from $7 million in FY 2000 to more than $38 million in FY 2005.
- Nearly a dozen bio centers established on campus.
Innovative new research directions

Nanomedicine: Joint GT/Emory research pioneers in this new field, lead the nation in attracting NIH funding.

Predictive medicine: GT/Emory research in human genome and molecular-level diagnostics aims at disease prevention.
Innovative Collaborations

- Emory/Georgia Tech Biomedical Engineering
- National Nanotechnology Infrastructure Network
- NSF Centers of Excellence:
  - Tissue Engineering
  - Electronic Packaging
  - Photonics
- National Lambda Rail
- Product Lifetime Management Center
- The Enterprise Transformation Institute
University-based nanotechnology

Centers and facilities

GT Nanotechnology Research Center
Four campuses on three continents

Georgia Tech-Atlanta

Georgia Tech-Savannah

Georgia Tech-Lorraine

Georgia Tech-Singapore
Building a quality, sustainable campus
3.5 million gross sq ft of new, renovated space.
Recent construction

- 1992-96 Olympic era construction
- 1996-2005
- In process
Technology Square

- Gives Atlanta a visible technology nexus.
- Built on vacant lots, abandoned property.
- Models sustainability.
- Invigorates Midtown’s western side:
  - Midtown’s biggest book store
  - Shops and cafes
  - Triggered 4,500 new housing units
Projects in design, planning, proposal

Nanotechnology Research Center Building received $7 million in state funds to keep design moving forward.

Undergraduate Learning Center may receive design funds in next year’s legislative session.

Bio-Z Building, new home for biology and interdisciplinary biotechnology programs, presented to the Board of Regents June 7 for consideration.
International programs

- Global Learning Center delivers education around the world
- Global MBA
- Sam Nunn School of International Affairs
- Research and education partnerships:
  - Israel
  - Great Britain
  - France
  - Argentina
  - Germany
  - Singapore
  - China
  - India