2006 GEORGIA TECH STATE OF THE INSTITUTE





"The emerging global university is set to be one of the transformative institutions of the current era."

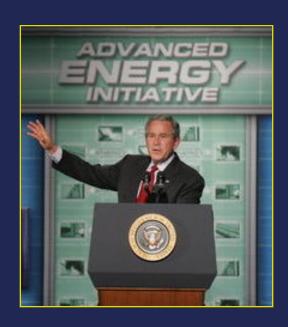
"The brains business" *The Economist*, September 2005

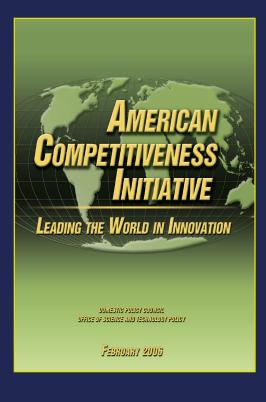
Georgia Tech vision and mission

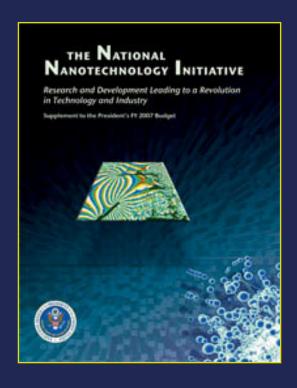
Georgia Tech will define the technological research university of the 21st century and educate the leaders of a technologically driven world.



National priorities converge on Georgia Tech's "sweet spot"







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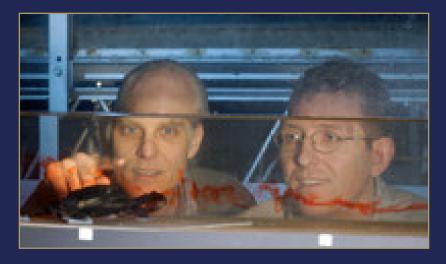
Pioneering new fields

Jeff Skolnick

The Razor

Computational systems biology is the foundation for the next revolution in biomedicine.

Biomimetics studies nature's solutions to problems for clues to complex engineering challenges.



Mark Weissburg, Don Webster test the transport of chemical odors through water.

Technology enlivens the arts



Music Department partners with Computing on new technologies like Haile, the robotic drummer. M.S. in music technology is Tech's first performing arts degree.

LCC Assistant Professor Michael Mateas won the top prize in the Slamdance Grand Jury Guerilla Gamemaker competition at the Sundance Film Festival.



Expanding medical research

3 national centers of excellence in nanomedicine with Emory:



Cardiovascular disease
Cancer diagnosis, treatment
DNA, RNA repair





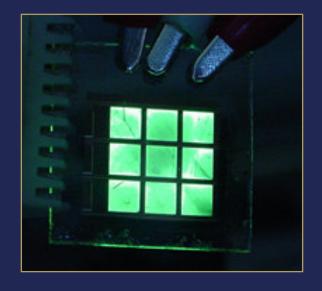
Center for Pediatric
Outcomes and Quality,
joint with Children's
Health Care of Atlanta.

New international research partners

Joint research unit between GT Lorraine and Centre National de la Recherche Scientifique (CNRS) for telecommunications and developing of new materials.



Abdallah Ougazzaden Georgia Tech Lorraine



Belgian pharma/chemical giant Solvay: \$3 million partnership with Center for Organic Photonics and Electronics for research on organic light-emitting diodes (LEDs).

Expanding east and west



Georgia Tech Ireland: GTRI's first international center for applied research and technology transfer

Dual degree agreement with Shanghai Jiao Tong University



Strategic Energy Institute

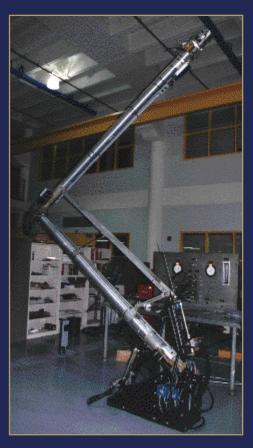
- Policy guidance based on big picture concepts
- Alternative energy sources
- Efficiency and demand reduction
- Rapid commercialization of new technologies
- GRA Eminent Scholar in Energy
- Southern Pine to Ethanol initiative
- ➤ \$12 million partnership with Chevron: biofuels and hydrogen



Marilyn Brown
School of Public Policy



RIM@GT: Robotics and Intelligent Machines



RALF: Robotic Arm Long and Flexible

- Partnership of Engineering and Computing in collaboration with GTRI and the Office of Research
- Coordinate Tech's efforts in robotics and facilitate technology transfer to industry
- > 31 faculty, 15 labs, 44 academic courses

New facilities

Molecular Science and Engineering





Klaus Advanced Computing

Marcus Nanotechnology Building

- Largest in the South
- ➤ Three classes of cleanrooms (10, 100, 1,000)
- > First in nation, world designed for both physical,

biomedical research

- > Flexible configuration
- Multi-user access
- Interdisciplinary
- Groundbreaking Aug 7



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Recognized for biotech transfer

- ➤ No. 4 in start-up companies
- > No. 8 in patents filed
- ➤ No. 11 in technology transfer

Mind to Market: A Global Analysis of University Biotechnology Transfer and Commercialization

A study by the Milken Institute



Orthonics



CardioMEMS

"Clean tech" gains traction

- Sustainability and environmentally "clean" technology were the focus of a visit with WalMart executives from around the world.
- Tech's VentureLab has 5 "clean-tech" start-up companies in development, with 4 more projects in the pipeline.

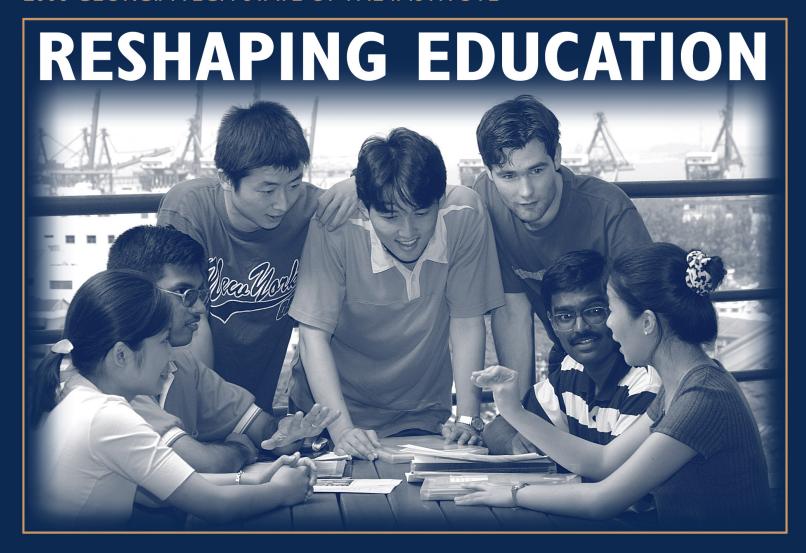


C2 Biofuels



Climate Forecast Applications

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"Access and achievement gaps disproportionately affect low-income and minority students."

A Test of Leadership Spellings Commission on Higher Education

- Tech's tuition rates are among the lowest in our national peer set.
- Co-op Program allows students to work their way through Tech, gaining valuable job experience.
- Diverse Issues in Higher Education and Hispanic Business rank Tech among the best in the nation in graduating minority engineers.

Reshaping undergrad education

Honors Program

New interdisciplinary degrees

- International Plan
- > Research Option
- Leadership education
- Revising the curriculum
 - > Problem-based learning
 - "Threads"



24/7 Library Commons

West Commons

- Multi-media center combines reference desk and IT help desk
- Sophisticated video, Web tools
- Doubled library usage

East Commons

- Flexible space combines living room comfort with latest in presentation technology
- Focus on group projects, collaborative study



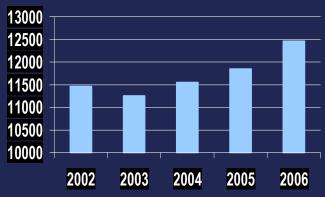
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OUTSTANDING PEOPLE

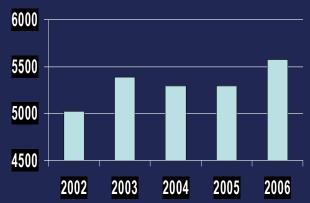
Enrollment trends

Record enrollment of 17,933



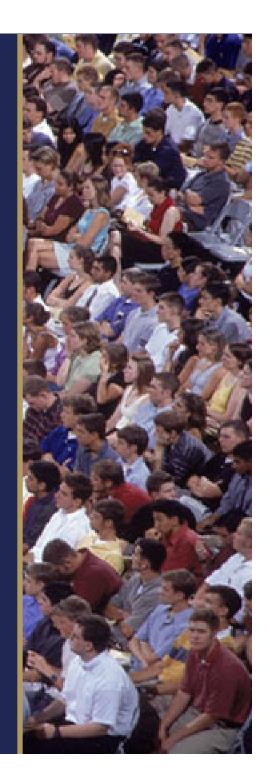


Graduate



- Record freshman class of 2,800 +
 - ▶ 60% from Georgia; 40% from outside state

 - College of Sciences up 22%
 - ▶ Ivan Allen College up 11%



Goldwater Scholars:

Outstanding students



Michael Haynes: Marshall Scholar



Jarret Lefleur: USA Today Academic All Star Astronaut Scholarship Foundation Scholar



Isaac Penny: Astronaut Scholarship Foundation Scholar





A.J. Friend Jonathan Diaz Andrew Marin





Anita Borg Memorial
Scholars:
Gillian Hayes
Delphine Nain
Laura Rouse
Tracy Westeyn

John Crocker: Fulbright Fellow

Faculty honored



Jim Meindl, ECE, 2006 IEEE Medal of Honor



Carol Colatrella, LCC Fulbright New Century Scholar





Frank Rothaermel,
Management
Sloan Industry
Studies Fellow





ACM Fellows: Vijay Vazirani, Computing Krishna Palem, Computing

Faculty win awards

CAREER Awards:

Victor Laurens Breedveld, ChBE
Nirin Murthy, BME
Alexandra Boldyreva, Comp
Gregory Durgin, ECE
Elliott Moore, GT Savannah, ECE
Jeffrey Todd Streelman, Biology
Frank Rothaermel, Management
Sung-Kyu Lim, ECE

Fulbright Scholars:
David Goldsman, ISyE
Stuart Goldberg, Mod Lang
Fei-Ling Wang, Int Affairs

AAAS Fellows:

Charles Liotta, ChBE, Chemistry James Foley, Computing James Gole, Physics Willie Pearson, Jr., HTS Peter Webster, CEE Evans Harrell, assoc dean, Sciences Boris Mizaikoff, Chemistry Nancy Nersessian, computing, public policy Z L Wang, materials sci & eng

New leaders step up to the plate

Gary Schuster, Provost



Dan Radakovich, Athletics Director



Jim Fetig, AVP Communications

Steve Salbu,
Dean
College of
Management





Ronald
Bayor,
HTS School
Chair

At the top

Top 10 public university
Top 5 engineering program
Top 10 rating for all
engineering disciplines

Top 5 in average SAT score among public universities

Top producer of minority, female engineers

Top 5 in alumni giving

Best campus rec center
Best golf program
Best collegiate tennis
athlete

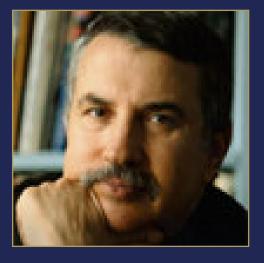
Top 2 in engineering research
Top 5 in nanomedicine research
Top 5 in biotech start-ups
Top 10 in patents
Top university-based incubator

Top 2 in NSF CAREER Awards

Top 10 in National Academy members

Top 10 in PECASE Awards

Top 5 among publics in alumni giving
Top 10 transformative urban development
Top 12 best value in public education
Top 12 academic places to work



Tech has the "right stuff"

"What the Georgia Tech model recognizes is that the world is increasingly going to be operating

off of the flat-world platform, with its tools for all kinds of horizontal collaboration."

Thomas L. Friedman

The World is Flat

