

WHAT'S NEXT

2016 INSTITUTE ADDRESS »

G.P. "Bud" Peterson, President,
Georgia Institute of Technology



Techn
Square

PAST DECISIONS THAT STILL HAVE IMPACT TODAY

1980s

Focus on Research and
Graduate Education

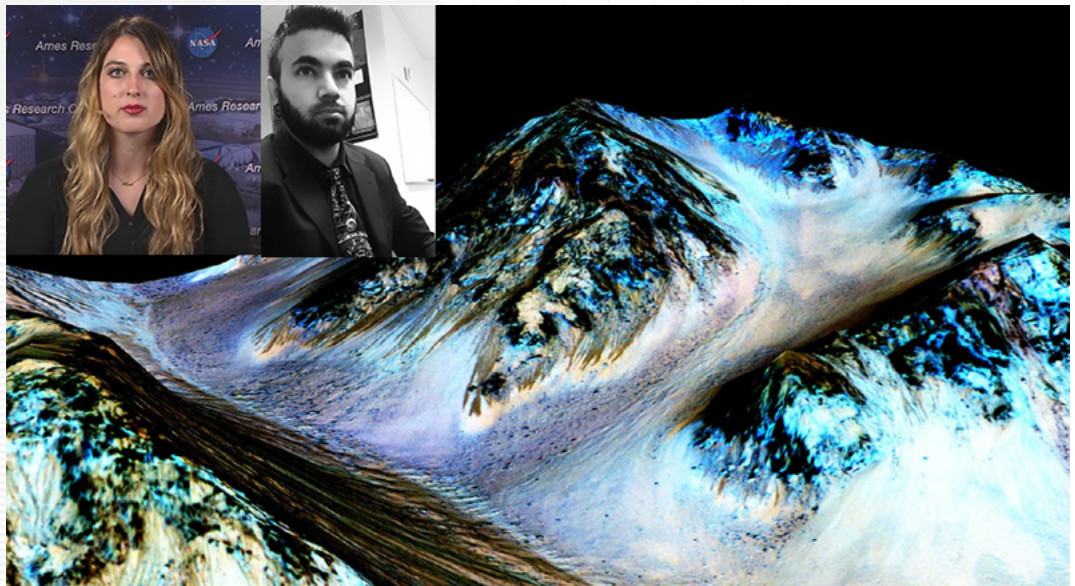


PAST DECISIONS THAT STILL HAVE IMPACT TODAY



1980s

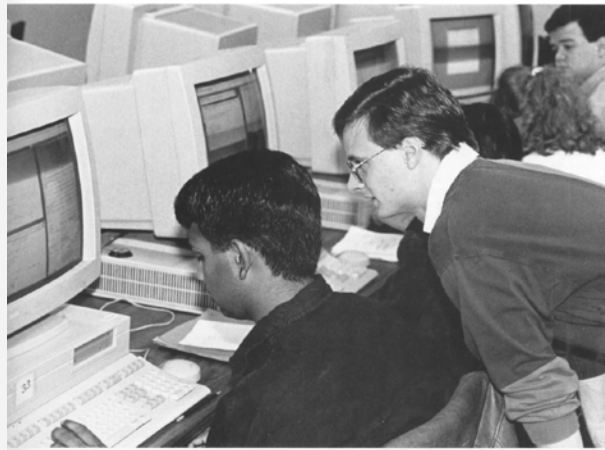
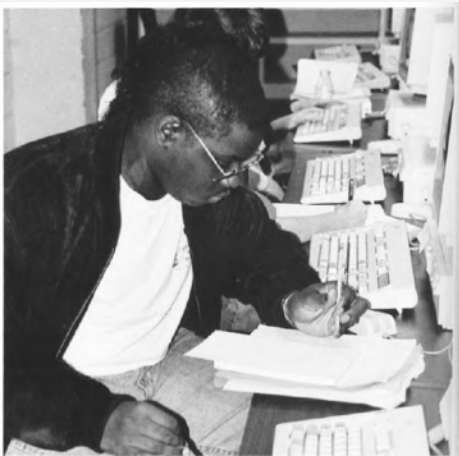
Focus on Research and
Graduate Education



PAST DECISIONS THAT STILL HAVE IMPACT TODAY

1990

College of Computing



College of Computing

"As a new college, we want to increase the activity of computing across the campus, not only with our major students."

- Dean Freeman

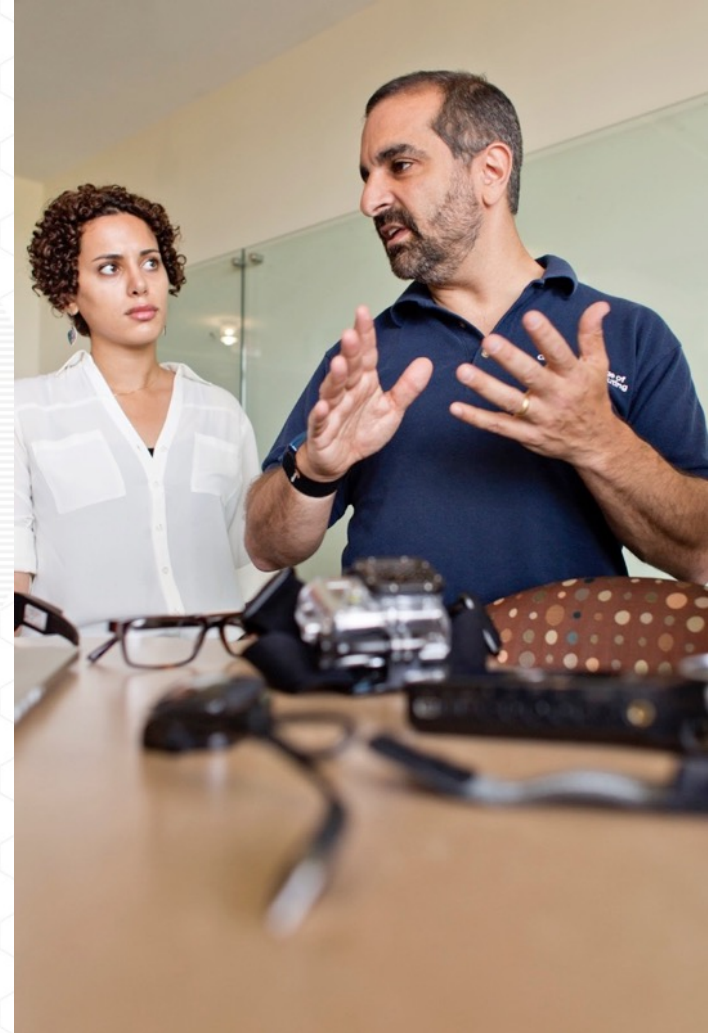


Dean Freeman

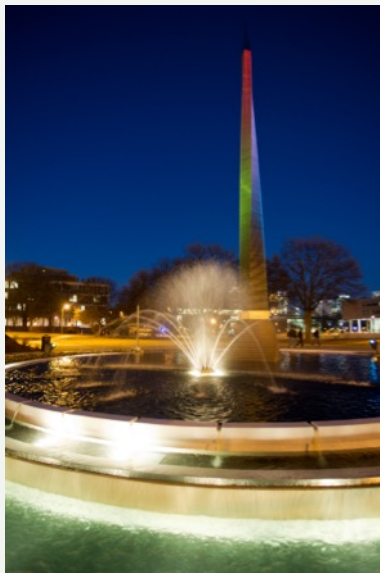
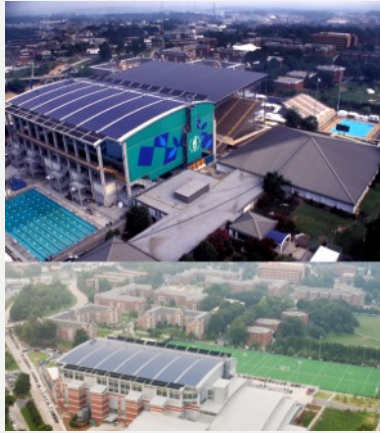
PAST DECISIONS THAT STILL HAVE IMPACT TODAY

1990

College of Computing



PAST DECISIONS THAT STILL HAVE IMPACT TODAY



1990-1996

Role in Securing and
Hosting

1996 Summer Olympic
Games

PAST DECISIONS THAT STILL HAVE IMPACT TODAY



1990-1996

Role in Securing and Hosting
1996 Summer Olympic Games



PAST DECISIONS THAT STILL HAVE IMPACT TODAY

1999

Georgia Tech and Emory
University begin joint program
in Biomedical Engineering



PAST DECISIONS THAT STILL HAVE IMPACT TODAY



2003

Tech
Square



PAST DECISIONS THAT STILL HAVE IMPACT TODAY

2005

QEP focus on Strengthening
Global Competence and
Undergraduate Research



DECISIONS THAT WE ARE MAKING TODAY THAT WILL HAVE AN IMPACT IN THE FUTURE



- The Strategic Plan
- Globalization
- Facilities
- Research
- Academics
- Technology-Enhanced Education
- Partnerships and Collaborations
- Innovation and Economic Development
- Focus on Students
- Institutional Effectiveness



TODAY'S DECISIONS: THE STRATEGIC PLAN



DESIGNING THE FUTURE

A STRATEGIC VISION AND PLAN



Georgia Institute
of **Technology**®

Strategic Plan Advisory Group

- **Gisele Bennett, Ph.D.**, GTRI & ECE
- **Daisy Bourassa**, Graduate Student, Chemistry
- **Laura Margaret Burbach**, Undergraduate Student, Public Policy
- **Kim Cobb, Ph.D.**, Earth & Atmospheric Sciences
- **Jim Fortner**, Institute Planning & Resource Management
- **David Frost, Ph.D. (Chair)**, ECE
- **Lisa Grovenstein**, Institute Communications
- **Lance Lunsway**, Campus Services
- **George Riley, Ph.D.**, ECE
- **Frank Rothaermel**, Scheller College of Business

TODAY'S DECISIONS: THE STRATEGIC PLAN



DESIGNING THE FUTURE

A STRATEGIC VISION AND PLAN



Georgia Institute
of Technology®

Initiatives Selected for SPAG Funding

- Engineering for Social Innovation Projects
- Graduate Program in Ocean Science and Engineering
- Alternative Service Breaks Expansion
- Real-time Visualization of Student Projects
- Dotlink Visualizing our Innovation Ecosystem
- Gender Equity, Inclusion and Diversity Initiatives
- Refocusing Development Media Fest: Sustainability Across Languages and Cultures
- Intentionally Integrating Teamwork, Leadership and Communications Skills in Curriculum

TODAY'S DECISIONS: THE STRATEGIC PLAN



DESIGNING THE FUTURE



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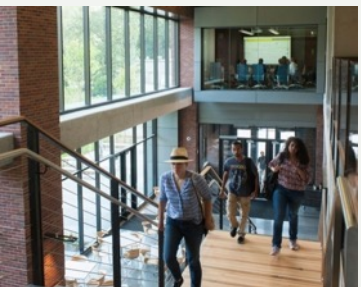
TODAY'S DECISIONS: GLOBALIZATION



- Georgia Tech-Lorraine
25th Anniversary
- Global Centers in China,
Costa Rica, France, Mexico,
Panama, and Singapore
- Faculty engaged in research
collaborations in **100+**
countries, and even deep space!



TODAY'S DECISIONS: FACILITIES



Marcus Nanotechnology Center
Engineered Biosystems Building
Clough Undergraduate Learning Commons
Library Service Center with Emory
Dorothy M. Crosland Tower currently
undergoing extensive renovations,
Price Gilbert slated next:

- Scholarly communities
- Doubled seating capacity
- User-centric features for students and faculty

TODAY'S DECISIONS: RESEARCH



CREATING THE NEXT®

TODAY'S DECISIONS: ACADEMICS



The screenshot shows the Coursera website interface. At the top, there's a navigation bar with the Coursera logo, a search bar containing "Catalog" and "Search catalog", and links for "Institutions", "Log In", and "Sign Up". Below the navigation bar is a large banner image of the Georgia Institute of Technology building at night, with the word "TECH" illuminated on its facade. To the left of the banner is a small Georgia Tech logo. Below the banner, the text "Georgia Institute of Technology" is displayed, followed by a paragraph describing the university's commitment to improving the human condition through advanced science and technology. Below this, there are four course cards, each with a thumbnail image, a title, and the next session date:

- Survey of Music Technology**
Next session Aug 16, 2016
- Speak English Professionally: In Person, Online & On the Phone**
Next session Aug 15, 2016
- Control of Mobile Robots**
Next session Aug 29, 2016
- Introduction to User Experience Design**
Next session Aug 22, 2016

- Commission on Creating the Next in Education
- Now offering 29 unique MOOCs through Georgia Tech Professional Education, with enrollment **1 million+**
- OMS CS Fall 2016 enrollment: **4,100**

TODAY'S DECISIONS: TECHNOLOGY-ENHANCED EDUCATION



Who is Jill Watson?

- This past spring, Professor Ashok Goel's artificial intelligence class had nine teaching assistants.
- Jill Watson was one of them – she is a computer.
- She only answered when she had 97 percent accuracy.

Next Steps

- Merge OMS-CS and AI-Augmented Instruction
- Introductory Courses in Computer Science

THE WALL STREET JOURNAL. Christine Brazil

Home World U.S. Politics Economy Business Tech Markets Opinion Arts Life Real Estate Search

Imagine Discovering That Your Teaching Assistant Really Is a Robot
Students mostly couldn't tell 'Jill Watson' wasn't human; 'Yep!'

FINANCIAL NEWS

By MELISSA KORN
May 6, 2016 10:57 a.m. ET

77 COMMENTS

One day in January, Eric Wilson dashed off a message to the teaching assistants for an

TODAY'S DECISIONS: PARTNERSHIPS AND COLLABORATIONS



Emory

- Course Sharing
- Library

Children's Healthcare of Atlanta

- EBB, Pediatric Technology Center

CDC

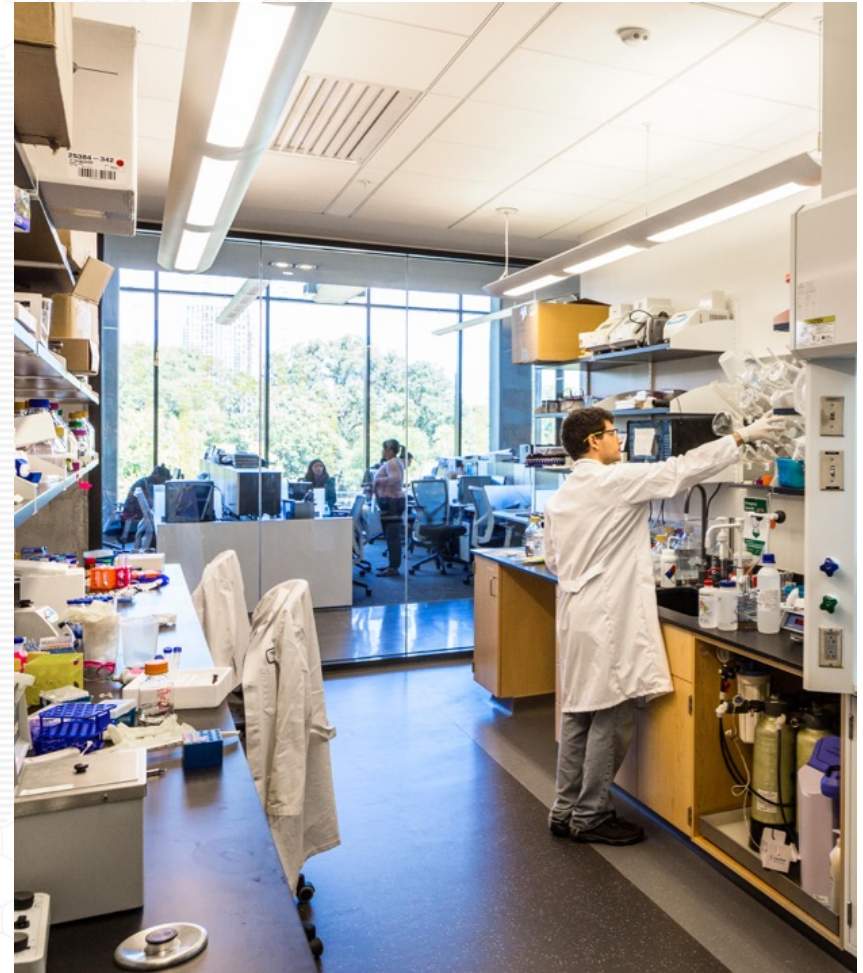
- Seed Grants

Augusta University

- Dental School

Throughout Georgia Tech

- Cybersecurity – 9 labs, 460 researchers



TODAY'S DECISIONS: INNOVATION AND ECONOMIC DEVELOPMENT



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TODAY'S DECISIONS: INNOVATION AND ECONOMIC DEVELOPMENT



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TODAY'S DECISIONS: FOCUS ON STUDENTS



COUNTRIES 69

STATES 43

GEORGIA COUNTIES 89

HIGH SCHOOLS 1,429
(307 IN GEORGIA)



TODAY'S DECISIONS: FOCUS ON STUDENTS



42%



58%



TODAY'S DECISIONS: FOCUS ON STUDENTS



2016 FRESHMAN ACADEMIC PROFILE*

SAT 1330-1490

ACT 30-34

AP/IB/DE 7-13

GPA A

*mid-50% ranges



BLACK/AFRICAN-AMERICAN 6.5%

HISPANIC 8%

OTHER/UNKNOWN 7%

TWO OR MORE 3.5%

ASIAN 25%

CAUCASIAN 50%



TODAY'S DECISIONS: FOCUS ON STUDENTS – GRADUATE



19,000+

Applications received for fall 2016, a 12 percent increase over 2015.

3,700

New graduate students coming to Georgia Tech this fall, a new record.



TODAY'S DECISIONS: INSTITUTIONAL EFFECTIVENESS



Maximize resources

Capitalize on sound financial planning to take advantage of strategic opportunities

Using Georgia Tech as a living laboratory

THE LIVING BUILDING
at GEORGIA TECH



LOOKING AHEAD: ATHLETICS



LOOKING AHEAD: ATHLETICS



LOOKING AHEAD: ATHLETICS



LOOKING AHEAD: CENTER FOR COMMUNITY HEALTH AND WELL-BEING



Alignment of Campus Recreation Center, Health Promotion, and Stamps Health Services for campus-wide wellness initiative for students, faculty, and staff:

- Wellness
- Mental health
- Alcohol and drug education
- Sexual assault prevention
- Tech joins End Suicide global effort

Endsuicide@gatech.edu



LOOKING AHEAD: BLACK STUDENT EXPERIENCE RECOMMENDATIONS



Planning & Assessments

- Fund proposals that enhance diversity, equity, and inclusion experiences for students
- Joint student advisory group

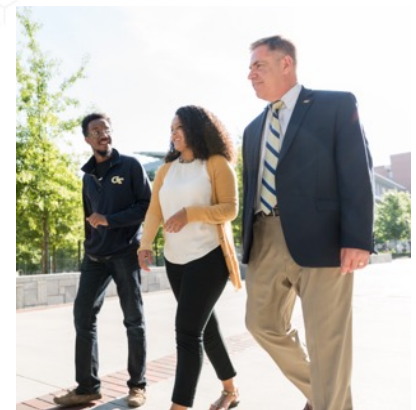
Physical Spaces

- Create safe spaces such as a multicultural center

Programs & Trainings

- Expand OMED's Challenge enrollment
- Culture inclusivity leadership training
- Greek education, intercultural student programs

diversity.gatech.edu



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LOOKING AHEAD: GENDER EQUITY INITIATIVES



Hiring, Promotion, and Tenure

Professional and Leadership Development

Leadership Appointments

Increased Visibility

- Solidified 11 gender equity initiatives to be implemented in next 2 years
- Two themes emerged:
 - Promote gender equity policies and processes related to hiring, retention, and promotion
 - Celebrate and recognize the contributions of women in the Georgia Tech community



diversity.gatech.edu

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CAMPAIGN GEORGIA TECH



All goals met, including

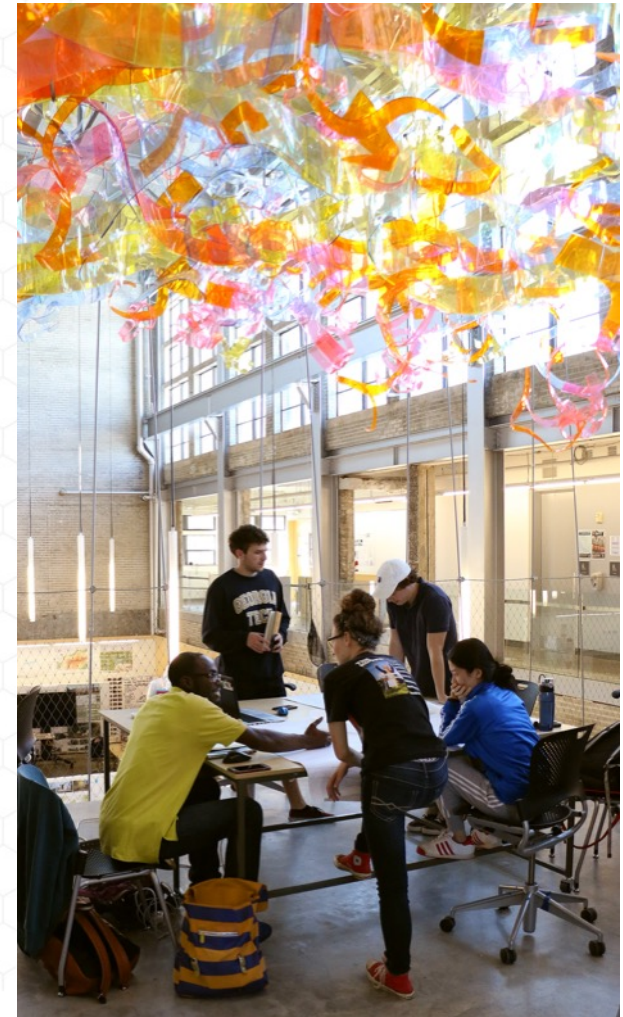
140 G. Wayne Clough Tech Promise Scholarships

82 Stamps President's Scholarships

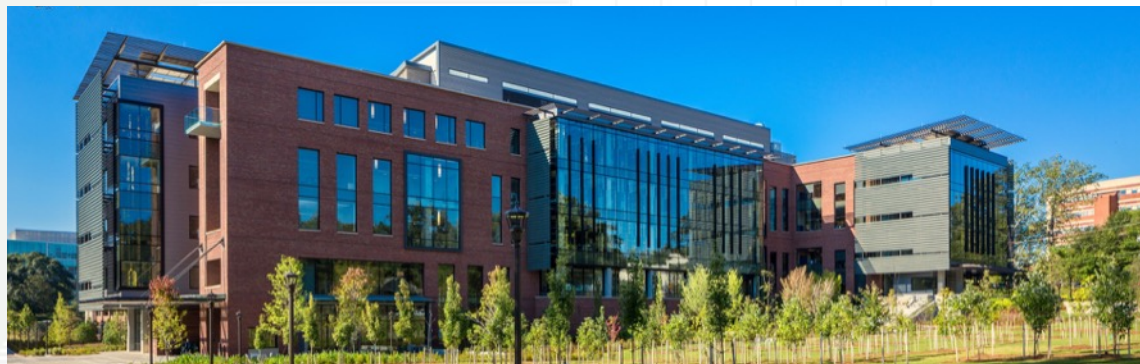
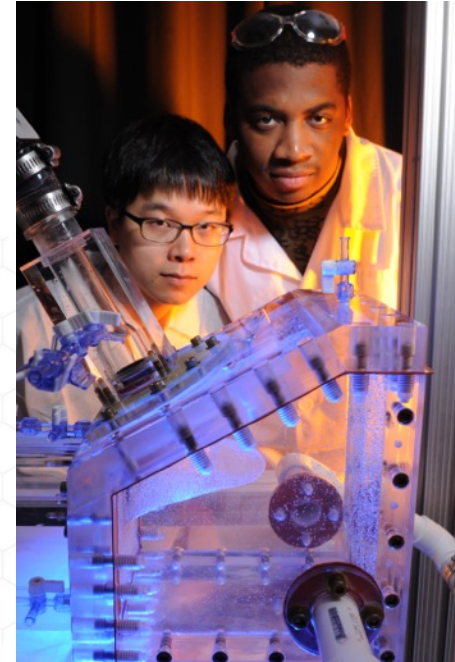
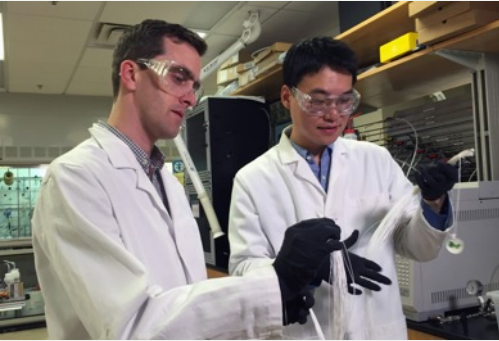
\$354M raised for student support

8 colleges, schools, research institutes, centers, and programs

104 endowed chairs and professorships



A TIME OF POSITIVE MOMENTUM



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WE BUILD ON FOUNDATIONS WE DID NOT LAY



We build on foundations we did not lay.
We warm ourselves by fires we did not light.
We sit in the shade of trees we did not plant.
We drink from wells we did not dig.
We profit from persons we did not know.
We are ever bound in community.
May it always be so.

Rev. Peter Spilman Raible, 1929-2004



2016 ANNUAL REPORT AVAILABLE ONLINE



www.president.gatech.edu

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STUDENTS DESIGN FIRST COMPUTER PROGRAMMED LED SHOES FOR A MISS AMERICA CONTESTANT



Shoe Design and Engineering Team

- Ryan Beckmann
Electrical Engineering
- Jordan Thomas
Industrial Design
- Caitlyn Seim, PhD candidate,
Interactive Computing

Patricia Ford,
Miss Georgia 2016