Agenda

• FY 2021 in Review
  • Covid-19
  • Strategic Plan

• Our Students and Enrollment

• Online Master of Science Degree

• Strategic Plan and Related Investments
  • Champion Innovation
  • Lead by Example
  • Cultivate Well-Being
  • Amplify Impact
Covid-19 Mitigation: Jackets Protect Jackets
Georgia Institute of Technology Covid-19 Data

Count of Positive Cases since March 2020
2,598

Testing Count since August 2020
296,203

Student Count of Positive Cases 2,123
Employee/Affiliate Count of Positive Cases 475
Student Test Count 241,532 (82%)
Employee/Affiliate Test Count 54,505 (18%)

Isolation/Quarantine In Use Bed Count 8
Total Beds 193

Past Seven Days Rolling Averages
2.86 (Positives) 698.29 (Tests) 0.17% (Surveillance Incident Rate)

**This number will update based on changes to GT contracts for isolation space

Moving Averages by Incidents of Positive Individuals

1. Population Selection
- Total
- Campus Location Type
- GT Primary Affiliation
- Testing Source
- Moving Averages

2. Population Filter
- (All)

3. Measures
- Incidents of Positive Individuals
- Cumulative Incidents of Positive Individuals
- Number of Tests Per Day
- Cumulative Number of Tests
- Surveillance Incidence Positivity (0-100)

From Date of Result
8/1/2020
4/7/2021

*Notes days with < 450 total tests may not be indicative of surveillance trends.

Covid-19 Data Table
Surveillance Incident Positivity Table
Campus Covid-19 Vaccination Rollout

Started in January 2021 with support from the University System of Georgia.

Covid-19 vaccine dashboard updated daily.

Strong response from the Georgia Tech community.

Scaling up operations to 1,000 shots/day and working with the Georgia Department of Public Health to procure a larger supply.

Currently scheduling appointments for all individuals meeting the state of Georgia’s eligibility criteria.
Strategic Plan Focus Areas

Amplify Impact - Embrace our power as agents of change for the public good and generate talent, ideas, and solutions with unmatched impact and scale to help define and address the most critical problems of our time, locally and globally.

Champion Innovation - Champion our leadership position as an engine of innovation and entrepreneurship, and to collaborate with other public and private actors to create economic opportunity and mobility and position Atlanta and Georgia as examples of inclusive innovation.

Connect Globally - Strengthen our role as a convener of worldwide collaboration and build a global learning network to expand our reach and amplify our impact.

Expand Access - Empower people of all backgrounds and stages of life to learn and contribute to technological and human progress.

Cultivate Well-Being - Strengthen our culture of well-being and create an environment of holistic learning where all members of our community can grow and learn to lead healthy, purposeful, impactful lives.

Lead by Example - Lead and inspire by example by creating a culture of deliberate innovation in all our practices and be an example of efficiency, sustainability, ethics, equity, and inclusion.
Enrollment
Our Outstanding Students

Undergraduates: 62% of students (10,324) are in-state residents

STEM + Business majors dominate and account for 90% of undergraduates

- Record high 97% first-year retention rate for 5th consecutive year
- Record high graduation rates: 91% six-year, 89% five-year, and 55% four-year

Graduate enrollment: 23,210 in Fall 2020; significant growth since Fall 2013 due to Online Master of Science programs (Computer Science, Analytics, with Cybersecurity)

According to the latest data published by the American Society of Engineering Education, in the U.S. Georgia Tech is:

- 1st in engineering degrees awarded at the undergraduate and graduate levels.
- 1st in engineering degrees awarded to women
- 2nd in bachelor’s engineering degrees awarded to Black or African Americans
- Only engineering program in the US with all programs ranked in top 5 by USNWR
45,350 students applied to become part of the 2021 first-year class:
  • 18% were offered admission

Students are academically talented and more diverse than previous year:
  • 28% more Black students
  • 20% more first-generation students
  • 12% more Hispanic students
Freshman Admissions by Residency

### In-State Freshman Admissions

<table>
<thead>
<tr>
<th></th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applied</td>
<td>5,858</td>
<td>5,931</td>
<td>6,610</td>
<td>6,598</td>
<td>6,994</td>
</tr>
<tr>
<td>Accepted</td>
<td>2,297</td>
<td>2,693</td>
<td>2,484</td>
<td>2,652</td>
<td>2,759</td>
</tr>
<tr>
<td>Enrolled</td>
<td>1,536</td>
<td>1,752</td>
<td>1,574</td>
<td>1,690</td>
<td>1,744</td>
</tr>
</tbody>
</table>

### Out-of-State Freshman Admissions

<table>
<thead>
<tr>
<th></th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applied</td>
<td>24,670</td>
<td>25,566</td>
<td>29,001</td>
<td>30,319</td>
<td>33,858</td>
</tr>
<tr>
<td>Accepted</td>
<td>5,571</td>
<td>4,676</td>
<td>5,553</td>
<td>4,916</td>
<td>5,960</td>
</tr>
<tr>
<td>Enrolled</td>
<td>1,341</td>
<td>1,108</td>
<td>1,562</td>
<td>1,390</td>
<td>1,530</td>
</tr>
</tbody>
</table>
Full-Time Equivalent (FTE) Enrollment

Fall 2016 through Fall 2020

- Fall 2016: Graduate 8,617, Undergraduate 14,466, Total 23,083
- Fall 2017: Graduate 9,862, Undergraduate 14,837, Total 24,699
- Fall 2018: Graduate 11,126, Undergraduate 15,240, Total 26,366
- Fall 2019: Graduate 12,880, Undergraduate 15,425, Total 28,305
- Fall 2020: Graduate 14,009, Undergraduate 15,636, Total 29,645
Retention Rates Continue at Record Highs

First Year Retention Rate
For Freshmen Entering Fall 2015 through Fall 2019

<table>
<thead>
<tr>
<th>% Retained to Second Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015: 97%</td>
</tr>
<tr>
<td>2016: 97%</td>
</tr>
<tr>
<td>2017: 97%</td>
</tr>
<tr>
<td>2018: 97%</td>
</tr>
<tr>
<td>2019: 97%</td>
</tr>
</tbody>
</table>
Six-Year Graduation Rates
For Freshmen Entering Fall 2010-2014

- 2010: 86%
- 2011: 85%
- 2012: 87%
- 2013: 90%
- 2014: 90%
Feedback – Student Success and Satisfaction

Course Instructor Opinion Survey (CIOS)
• Analyzed fall course surveys to understand teaching effectiveness
• Overall course and instructor effectiveness strong in each mode and evidence of positive experiences in remote and hybrid modes
• Comparative data from Fall 2019 indicates that effectiveness held at relatively similar levels

Spring 2021 Classroom Experience Survey and Listening Sessions
• Survey with 6,000 responses and 21 focus groups conducted in February/March, surveying these areas:
  o Clear Expectations: On average, 90% agreed or strongly agreed that instructors provided clear expectations for attendance in hybrid, residential, and remote courses (up from fall)
  o In-Person Value: Significant uptick in-person learning experience in both hybrid and residential (15% and 20% respectively)
  o Flexibility: 90% of survey respondents agreed or strongly agreed their faculty were flexible with them during Covid-19
  o Satisfaction with Services: Student survey respondents noted high degrees of satisfaction across student services
  o Challenges: Students and faculty continued to struggle with engagement and simultaneous instruction in dual modes. Feedback also showed indicators of burnout.
Online Master of Science (OMS) Degree
OMS Degree: Background

MOOC (Massive Open Online Course)
- Emerged as a popular mode in 2012
- Courses are designed for online, typically asynchronous instruction with interactive and user forums
- Modeled as low-cost, at-scale education finally arrived

Georgia Tech leads the way: OMS Degree in May 2013
- Is a high-quality model with high student satisfaction, at-scale, and at a lower cost possible?

Eight years later: April 2021
- Is a high-quality model with high student satisfaction, at-scale, and at a lower cost possible… YES
- Taught us a great deal about demographics, platforms, instruction, students, and admissions
- Prepared us well for the last year
OMS Degree Summary

<table>
<thead>
<tr>
<th></th>
<th>OMS in Computer Science</th>
<th>OMS in Analytics</th>
<th>OMS in Cybersecurity</th>
</tr>
</thead>
<tbody>
<tr>
<td>BoR Approved</td>
<td>May 2013</td>
<td>January 2017</td>
<td>July 2018</td>
</tr>
<tr>
<td>Launched</td>
<td>January 2014</td>
<td>August 2017</td>
<td>January 2019</td>
</tr>
<tr>
<td>Tuition Rate</td>
<td>$180/hr</td>
<td>$275/hr</td>
<td>$310/hr</td>
</tr>
<tr>
<td>Hours to Complete</td>
<td>30</td>
<td>36</td>
<td>32</td>
</tr>
<tr>
<td>Cost to Student</td>
<td>&lt;$7,500</td>
<td>&lt;$12,000</td>
<td>&lt;$12,000</td>
</tr>
<tr>
<td>Donor/Amount</td>
<td>AT&amp;T - $4M</td>
<td>AT&amp;T - $1M Accenture - $1M</td>
<td>Accenture - $500k</td>
</tr>
<tr>
<td>Initial Cohort Size</td>
<td>380</td>
<td>250</td>
<td>237</td>
</tr>
<tr>
<td>Initial Platform</td>
<td>Udacity</td>
<td>edX</td>
<td>edX</td>
</tr>
</tbody>
</table>
OMS Enrollment History

- Fall 2014: 1,255
- Fall 2015: 2,784
- Fall 2016: 3,942
- Fall 2017: 5,851
- Fall 2018: 7,874
- Fall 2019: 9,025
- Fall 2020: 10,559

OMSCS: dark blue
OMSA: yellow
OMS Cybersecurity: gray
Georgia Tech 10-Year Enrollment Trends: Graduate Enrollment Growth Driven by OMS
OMS Enrollment Estimate vs. Actual

<table>
<thead>
<tr>
<th>Year</th>
<th>OMS Cybersecurity</th>
<th>OMSA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall 2019</td>
<td>650</td>
<td>899</td>
</tr>
<tr>
<td>Fall 2020</td>
<td>1,633</td>
<td>2,854</td>
</tr>
<tr>
<td>Fall 2021</td>
<td>2,617</td>
<td>4,252</td>
</tr>
<tr>
<td>Fall 2017</td>
<td>270</td>
<td>2,794</td>
</tr>
<tr>
<td>Fall 2018</td>
<td>899</td>
<td>2,854</td>
</tr>
<tr>
<td>Fall 2019</td>
<td>1,708</td>
<td>4,252</td>
</tr>
<tr>
<td>Fall 2020</td>
<td>2,794</td>
<td>4,252</td>
</tr>
</tbody>
</table>
OMS Graduation History

[Bar chart showing graduation history by semester from Fall 2015 to Fall 2020, with labels for OMSCS, OMSA, and OMS Cybersecurity.
What’s Next?

The time is right to think even bigger

The OMS model and the Strategic Plan allow us to provide:

• Quality at scale
• Innovation and platforms
• Models of success and inclusion

Become the best at supporting learners for their entire lives

• Keep our traditions of degree education for launching careers and add educational and other experiences along the individual’s career path
• Think beyond courses: the benefits of our residential experience must span space and time
• Ecosystem for lifelong education

Georgia Tech Professional Education Next

• Quickly getting organized around
  o New programs and audiences
  o Research
  o Platforms and services
Research Portfolio: Amplify Impact
## Sponsored Awards Remain Strong

<table>
<thead>
<tr>
<th>Year</th>
<th>GTRI (in millions)</th>
<th>RI (in millions)</th>
<th>Total (in millions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>$367</td>
<td>$352</td>
<td>$719</td>
</tr>
<tr>
<td>2017</td>
<td>$377</td>
<td>$313</td>
<td>$690</td>
</tr>
<tr>
<td>2018</td>
<td>$497</td>
<td>$355</td>
<td>$852</td>
</tr>
<tr>
<td>2019</td>
<td>$643</td>
<td>$407</td>
<td>$1,050</td>
</tr>
<tr>
<td>2020</td>
<td>$663</td>
<td>$402</td>
<td>$1,065</td>
</tr>
</tbody>
</table>

($$$ in millions)
Awards by Sponsor FY20

**GTRC Awards**
Over $395.3 million for sponsored activities in academic and other Georgia Tech units

- $262.3 million Army
- $216.7 million Air Force
- $99 million Industry
- $93.3 million National Science Foundation
- $54.3 million Navy
- $52.8 million Universities
- $45.2 million Department of HHS, including the NIH
- $20.0 million Department of Energy
- $17.1 million NASA

**GTARC Awards**
Over $661.2 million for sponsored activities in the Georgia Tech Research Institute (GTRI)

**INSTITUTE Awards**
$9.3 million awarded directly to the Georgia Institute of Technology

**New Research Awards**
$1.06 billion in total sponsored projects funding to support research, discovery, and innovation.

- 59.5% New awards from U.S. Department of Defense
- 21.1% New awards from other federal agencies
- 10.1% New awards from other non-federal agencies
- 9.3% New awards from industry
- 3,700 submitted proposals representing over $3 billion in potential award funding.
<table>
<thead>
<tr>
<th><strong>CREATE-X: 2014-2020</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>$90M+</strong></td>
</tr>
<tr>
<td>highest revenue by one startup</td>
</tr>
<tr>
<td><strong>5K+</strong></td>
</tr>
<tr>
<td>students involved</td>
</tr>
<tr>
<td><strong>43%</strong></td>
</tr>
<tr>
<td>startups co-founded by women*</td>
</tr>
<tr>
<td><strong>21%</strong></td>
</tr>
<tr>
<td>Black or Hispanic founders*</td>
</tr>
<tr>
<td><strong>150+</strong></td>
</tr>
<tr>
<td>most jobs created by one startup</td>
</tr>
<tr>
<td><strong>38</strong></td>
</tr>
<tr>
<td>different majors represented</td>
</tr>
<tr>
<td><strong>$750M+</strong></td>
</tr>
<tr>
<td>total valuation of all startups</td>
</tr>
<tr>
<td><strong>230</strong></td>
</tr>
<tr>
<td>total startups created</td>
</tr>
<tr>
<td><strong>$100M+</strong></td>
</tr>
<tr>
<td>venture capital raised</td>
</tr>
</tbody>
</table>

**Startup Highlights:**

- **STORD**
  - The Cloud Supply Chain: End-to-End Logistics Services & Software

- **GIMME**
  - Technology to help vending and retailer operators take control of warehouse inventory

- **Grubbly Farms**
  - GrubHub Layer: Feed is naturally balanced with nutrient-rich, organic, and plant-based ingredients for happier, healthier chickens

- **FIXD**
  - Meet the car repair sensor that’s saving people $1000s

- **Gatherly**
  - Spreading access to quality events by improving digital interactions through a delightful online platform

- **ETHOS**
  - Introducing the Iris: Real-time instrument guidance system

- **Sisimu VR**
  - Atlanta’s #1 virtual reality arcade

- **FireHUD**
  - Protecting Our Protectors
  - FireHUD provides easy-to-use group monitoring to improve situational awareness and keep your team safe

- **SHOCALL**
  - The all-in-one community management platform that gets viewers off the sideline and in the game
Engage is a collaborative corporate innovation and startup go-to-market accelerator program in partnership with Georgia Tech, 11 leading corporations, Invest Georgia, and Tech Square Ventures. Now in its 4th year, Engage’s startup and innovation program is administered by Georgia Tech.

- **50 TOTAL STARTUP COMPANIES SUPPORTED**
- **$700M CAPITAL RAISED BY STARTUPS SINCE JOINING ENGAGE**
- **250 JOBS CREATED IN ATLANTA BY STARTUP COMPANIES**
- **86 SIGNED CORPORATE CONTRACTS**
- **17 STARTUPS BASED IN GEORGIA**
- **70% SOUTHEAST BASED STARTUPS**
- **32% DIVERSE FOUNDERS (FEMALE + BLACK)**

**METRICS WE MEASURE**

- 3 GT ALUMNI FOUNDED STARTUPS
- 17 STARTUPS BASED IN GEORGIA
- 50 TOTAL STARTUP COMPANIES SUPPORTED
- 86 SIGNED CORPORATE CONTRACTS
- 32% DIVERSE FOUNDERS (FEMALE + BLACK)
- 70% SOUTHEAST BASED STARTUPS
- 250 JOBS CREATED IN ATLANTA BY STARTUP COMPANIES
- $700M CAPITAL RAISED BY STARTUPS SINCE JOINING ENGAGE

**STARTUP SPOTLIGHT**

**STORD**

- **2 GT FOUNDERS**
- **$100M+ VENTURE FUNDING RAISED**
- **100+ JOBS CREATED**

**Corporations**

**Research Universities**

**Venture & Startups**

**Metrics we measure:**

- GT Alumni Founded Startups
- Startups based in Georgia
- Total startup companies supported
- Signed corporate contracts
- Diverse founders (female + black)
- Southeast based startups
- Jobs created in Atlanta by startup companies
- Capital raised by startups since joining Engage
The Engage Internship is a structured year-round practicum program designed to engage undergraduate and graduate students in multidisciplinary project teams. High-performing students are retained across multiple cohorts, with some students participating for up to two years. The program runs in the Spring, Summer, and Fall.

50+ Students (Undergrad + Grad)  3 Universities (GT, GSU, Emory)  8 # Unique Majors

STARTUP SPOTLIGHT

Canary

Founded at Georgia Tech in 2020, Canary is a startup democratizing the college internship process by providing a platform to share anonymized reviews on past internship/co-op experiences.
**The Charge:**
Together, we want to discover the issues that will define the future of research, uncover new opportunities for engagement with peers, partners and others, and build the necessary infrastructure to make it all possible.

**Co-Chairs:**
Tim Lieuwen, Regents’ Professor, School of Aerospace Engineering, and Executive Director of the Strategic Energy Institute.

Wen Masters, Deputy Director for Research, Georgia Tech Research Institute.

**Commission Members:**
50+ across Georgia Tech community

**Executive Sponsor:**
Chaouki T. Abdallah
Executive Vice President for Research
Areas of Strategic Investment Aligned to the Strategic Plan
Budget by Funding Source – FY2017-21

*FY2021 revenue has been updated to reflect the changes as submitted in the 3rd quarter budget amendment

Note: Includes revenue for Resident Instruction, GTRI, and EI2
Key Strategic Investments in our Strategic Plan

• Invest in faculty and staff
  • Equity pool to address internal and market equity issues
  • Provide new start-up and retention funds to support new faculty equipment start-up and lab renovations
  • Faculty hiring to focus on cybersecurity, machine learning, data science, quantum regenerative medicine/cell-based therapies, and neuroengineering
  • School chair positions for Industrial Design, City and Regional Planning, and Building Construction

• Enhance student experience
  • Increase subsidy for student health insurance
  • Additional academic, first year, and transition career advisors to support students in their academic success and career development
  • Increase annual graduate teaching assistant stipends to remain competitive with our peers
  • Additional teaching assistants to support enrollment growth
  • Funds to support instruction of GT1000/2000 courses
Thank you!