James Dahlman recognized by *MIT Technology Review*'s annual roster of "**35 Innovators Under 35.**"

His invention, DNA-barcoding, tracks hundreds of nanoparticles at once to see how well they hit targeted tumor cells by inserting individualized DNA into the particles.

He is an assistant professor in the Wallace H. Coulter Department of Biomedical Engineering,

Five Georgia Tech alums participated in a flyover honoring late astronaut John Young (AE '52)

STATE CAPITOL INTERNS

Georgia Tech

A record **18 Georgia Tech students** interned at the Georgia State Capitol during the 2018 Legislative Session through the **Georgia Legislative Internship Program**.

FASTER DETECTION, CLEANUP OF NETWORK INFECTIONS

Researchers from the **Georgia Tech Research Institute (GTRI)** and Georgia Tech's School of Electrical and Computer Engineering are working to advance the science behind new attribution techniques.

Attribution is the emerging science of determining who's responsible for cybercrime — the key in both proactive defense and effective deterrence.

CROSLAND TOWER
OPENS DECEMBER 2019

Georgia Tech

BART AND OKOGIE SELECTED IN FIRST ROUND OF MLB, NBA DRAFTS

After winning both ACC Player of the Year and Johnny Bench awards, catcher Joey Bart was selected No. 2 overall by the San Francisco Giants. He's the highest Major League Baseball draft pick in school history.

The Minnesota Timberwolves selected guard Josh Okogie with the 20th pick of the first round of the NBA draft. He is the 19th Yellow Jacket selected in the first round.

MODERNIZING INFORMATION SYSTEMS TO SUPPORT ARMY FAMILIES

The **Army Community Service (ACS)** provides social services to soldiers' families, including support for new parents, financial counseling, and help to find a job.

Now, the ACS is looking ahead at ways to improve how services are delivered and is working with **GTRI to revamp its collection of information systems** — key tools used by staff members providing services to Army families.

SCHELLER COLLEGE STUDENTS NAMED BEST AND BRIGHTEST

Poets & Quants named five Scheller College of Business students as "Best and Brightest" nationally for 2018 (clockwise from top left).

- **Amir Bouhafs**, BSBA 2018

- **Amy Evans**, EMBA 2018

- **Declan Nishiyama**, MBA 2018

- **Evie Owens**, BSBA 2018

- **Maureen Portee**, EMBA 2018

MATERIAL UNDER (ELECTRICAL) EXTREMES

A $7.5 million multi-university project funded by DoD-ONR
Lead PI: **Rampi Ramprasad**, School of Materials Science and Engineering

To discover materials tolerant to enormous electric fields using experiments, computations, and machine learning.

JONES MBA CAREER CENTER NAMED NO. 1 IN THE WORLD

The *Financial Times*' 2018 rankings for Scheller College of Business include:

- No. 1 MBA Career Services in the world

- No. 2 MBA in the U.S. for salary increase of its alumni three years after graduation

- No. 8 MBA in the U.S. for alumni employment three months after graduation

LESSONS FROM HURRICANE HARVEY

Professor **John E. Taylor** and Ph.D. student **Rachel Samuels** found **big drops in Twitter posts** after the hurricane indicated where **people were in trouble**.

Now they're turning their work into a **software tool for first responders** to help them turn that **silence into sound**.
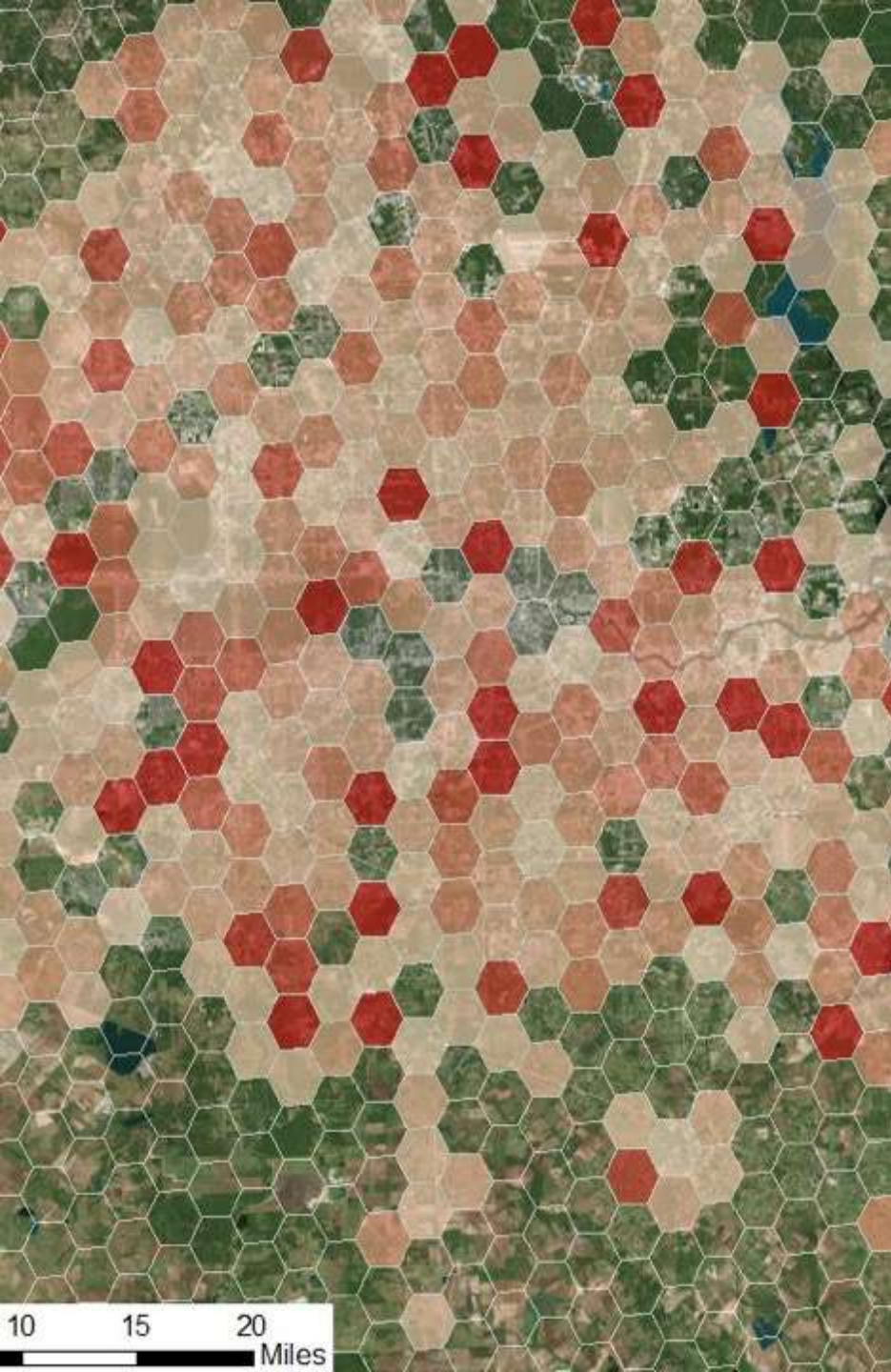
ERNEST SCHELLER JR. VISITS HIS NAMESAKE COLLEGE

Ernest Scheller Jr., namesake of Scheller College of Business, spent a day on campus this spring.

Mr. Scheller's campus visit included time with:

- Denning T&M undergraduate students

- TI:GER Ph.D. and MBAs

- Full-time MBA Strategy Capstone presentations
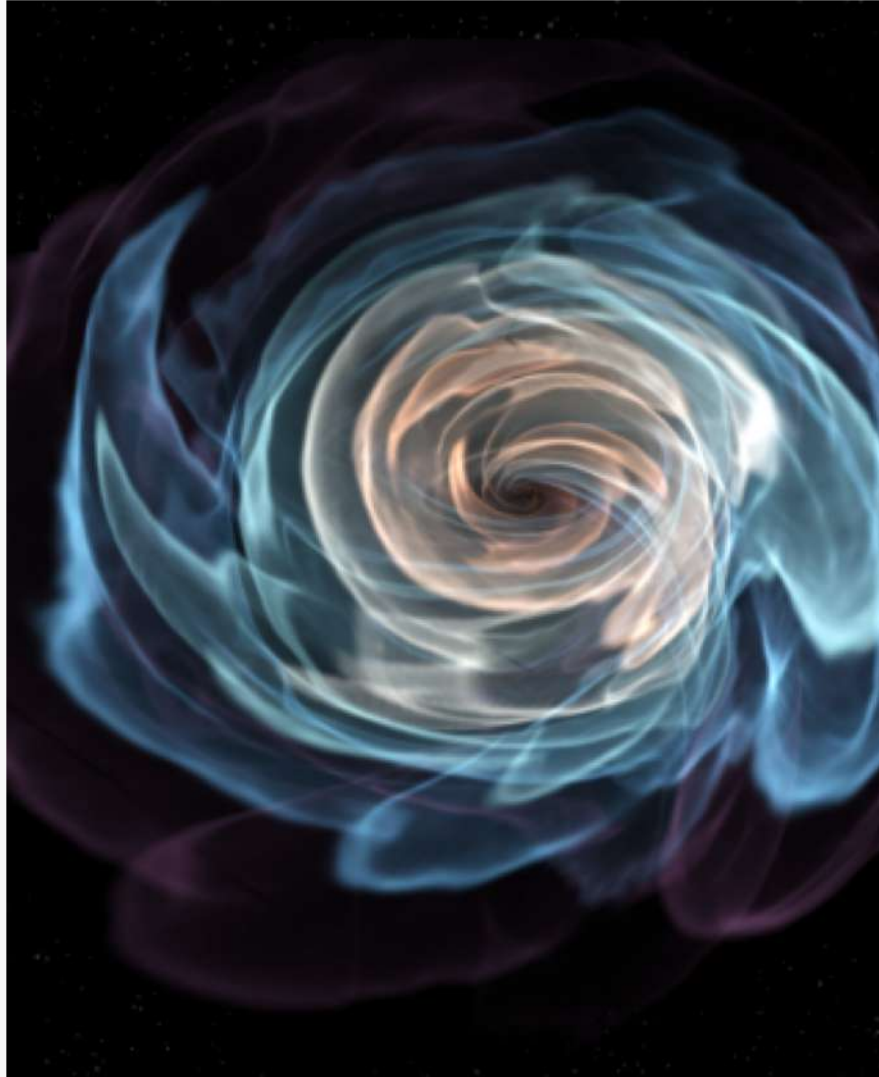
- Scheller College faculty

GLOBAL INTERNSHIPS

178 undergraduate and graduate students interned abroad.

OIE developed more partnerships with companies abroad, such as the Equifax Center in Santiago, Chile, where five summer interns worked.

FIRST DETECTION OF MERGING NEUTRON STARS

The LIGO and Virgo observatories made the first discovery of merging neutron stars by detecting their gravitational waves. The authors of the paper, in *Physical Review Letters*, included College of Sciences physicist **Laura Cadonati**.

Georgia Tech

By the Numbers
292 Student Staff
75 Student Office Assistants

Program Name	# of Students
Honors (Hefner/Armstrong)	210
SHaRP (Caldwell)	146
SMaRT (Folk)	144
Grand Challenges (Cloudman & Howell)	221
Global Leadership (Matheson/Perry)	118
Total	839

Georgia Tech

35,613 APPLICATIONS

37% Georgia Admit Rate

19% Non-Georgia Admit Rate

ACADEMIC RANGES
SAT 1400-1520
ACT 31-34
GPA **A**

Black **7**%
Hispanic **9**%
Other/Unknown **2**%
Multiracial **4**%
Asian **31**%
White **46**%
(Does not equal 100% due to rounding.)

97% FIRST-YEAR TO SECOND-YEAR RETENTION RATE

45 STATES
78 NATIONS
41% **59**%

Total High Schools **1,508**
Georgia High Schools **316**

AE PROFESSOR TIM LIEUWEN NAMED TO NATIONAL ACADEMY OF ENGINEERING (NAE)

- **David S. Lewis Jr., Chair**

- **Executive Director of the Georgia Tech Strategic Energy Institute**

- **Five Patents**

- **110 Journal Articles**

- **200+ Other Papers**

- **ASME Fellow**

- **AIAA Fellow**

DESIGNING CANCER CARE FOR KIDS, BY KIDS

Georgia Tech Research Institute and Children's Healthcare of Atlanta are working with pediatric cancer patients to develop a "passport" app.

It collects time-motion data about their visit and provides information expressing how they felt in each location, helping clinicians to improve the patient-care experience.
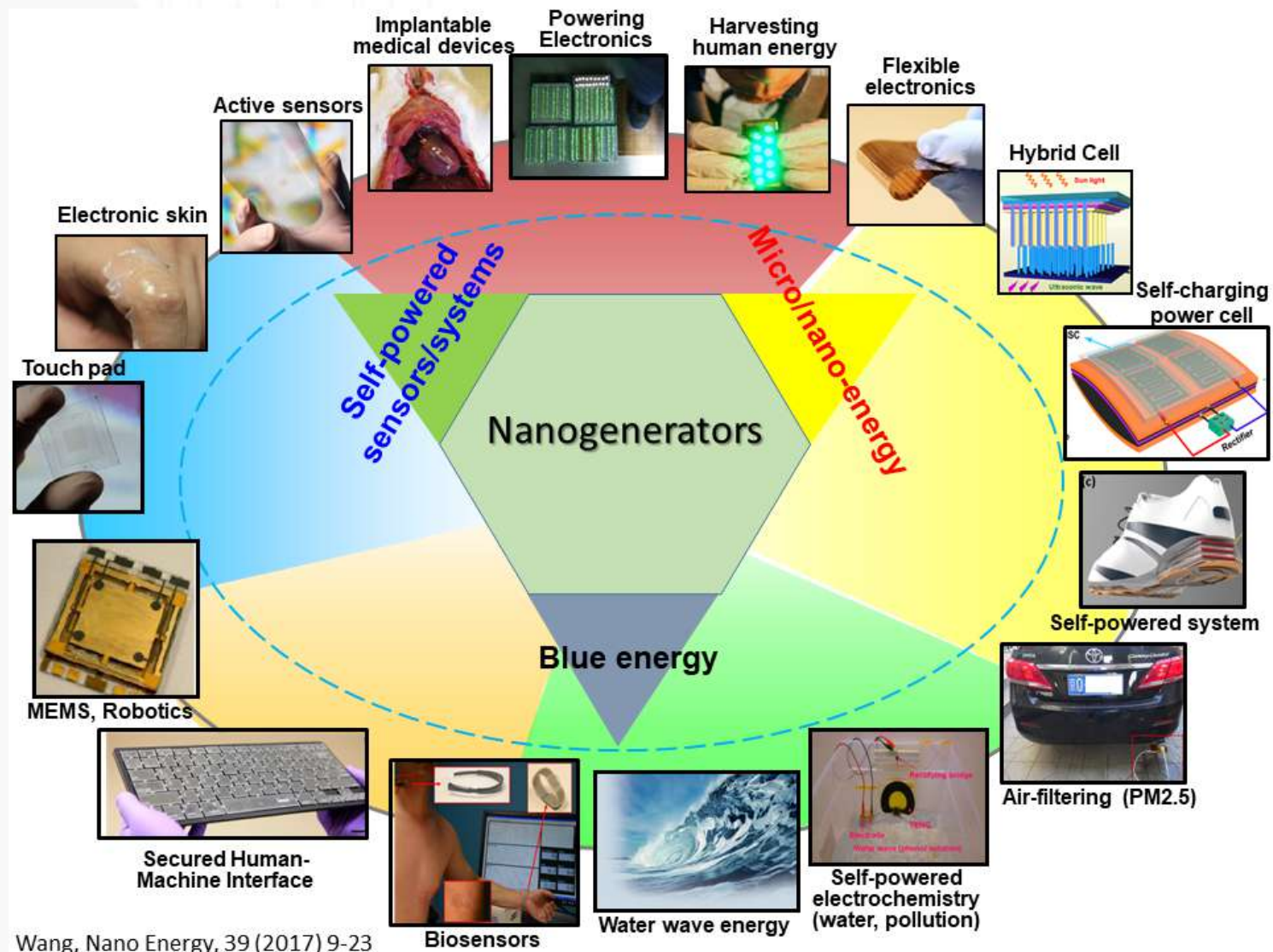
Wang, Nano Energy, 39 (2017) 9-23

BOLD NEW ERA FOR ATHLETICS

In April, Georgia Tech Athletics unveiled a brand refinement that included a new official wordmark.

A new six-year agreement with adidas began July 1 to equip Georgia Tech student-athletes in apparel and enhance retail offerings for students, alumni, and fans.

New uniforms for all 17 varsity teams will be unveiled throughout the year.
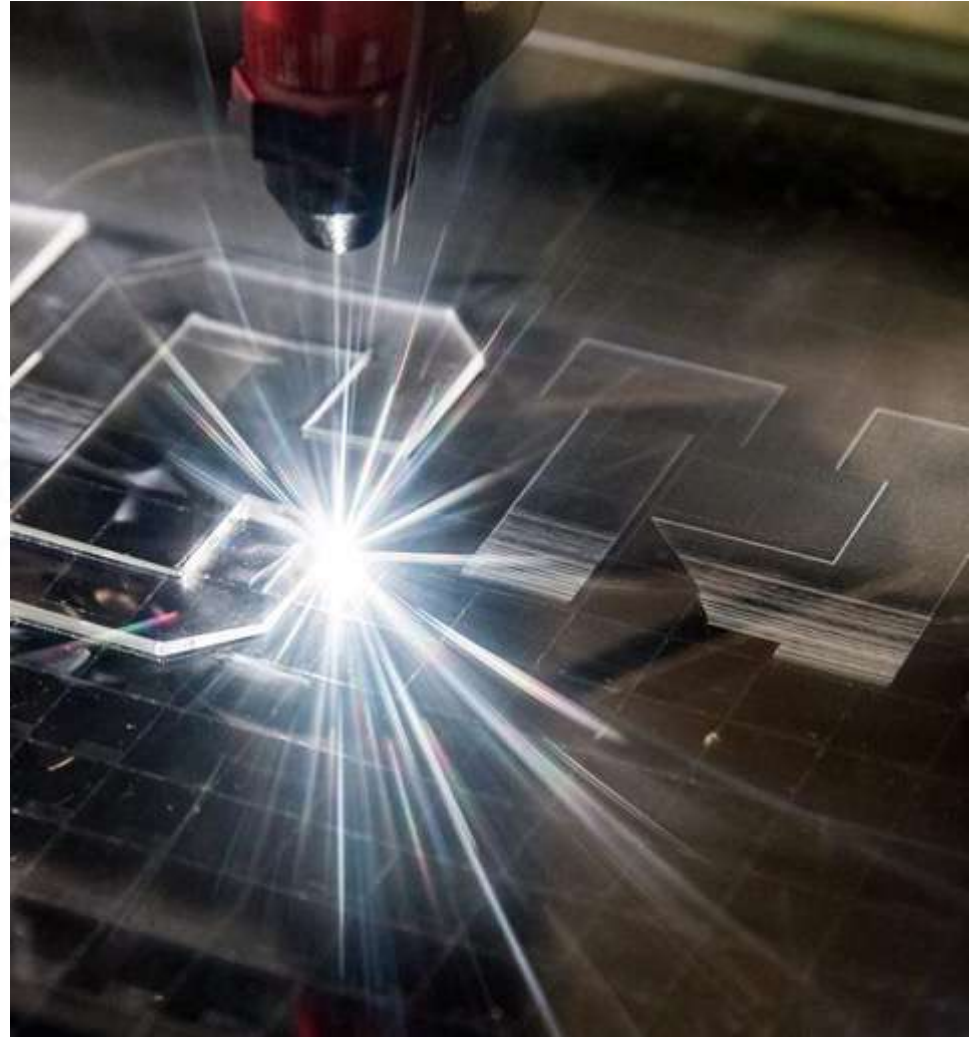
DANIEL GUGGENHEIM SCHOOL APPOINTS FIVE TO AE FACULTY

Dr. Joseph Oefelein

Dr. Jonathan Rogers

Dr. Yongxin Chen

Dr. Adam Steinberg

Dr. Kyriakos G. Vamvoudakis

GT INTERNATIONAL STUDENTS GO TO WASHINGTON, D.C.

Georgia
Tech

Two GT *international* students, along with other students from Georgia, made their voices heard in Washington D.C. They spoke to Georgia congressional representatives about issues that impact international students.

GT proudly hosts more international students than any other university in the state.

Georgia Tech

Congratulations to Ph.D. student Jingting Yao, winner of the 2017 Three Minute Thesis (3MT) Competition!

Tech's annual competition helps graduate students hone communication skills by challenging them to share their research in three minutes.

Accept the 2018 challenge.

grad.gatech.edu/3MT

ENTERPRISE TRANSFORMATION OVERVIEW

The Enterprise Transformation portfolio is building "The Next" platform of innovative solutions

Financials

Transforming Georgia Tech's legacy financial system to cloud-based Workday

HCM

Synergizing Georgia Tech's HR system with the USG One Connect Initiative

LITE

Providing trusted, consistent, and accurate data and reporting

COMMITTED TO HIGH-QUALITY HEALTH CARE

In June 2018, **Stamps Health Services** was reaccredited by the Accreditation Association for Ambulatory Health Care Inc. (AAAHC).

Georgia Tech is **one of only three** universities in Georgia to hold this accreditation.

SHS Senior Director **Dr. Benjamin Holton** said, "Accreditation is very much a team accomplishment, and it is an acknowledgement of [my team's] dedication and excellence."

GOLF PROGRAM WINS 17TH ACC TITLE

Under the watchful eye of coach Bruce Heppler, the Georgia Tech golf program captured its 17th Atlantic Coast Conference championship.

The title is Georgia Tech's ninth in the past 13 years and the 12th overall for Heppler.

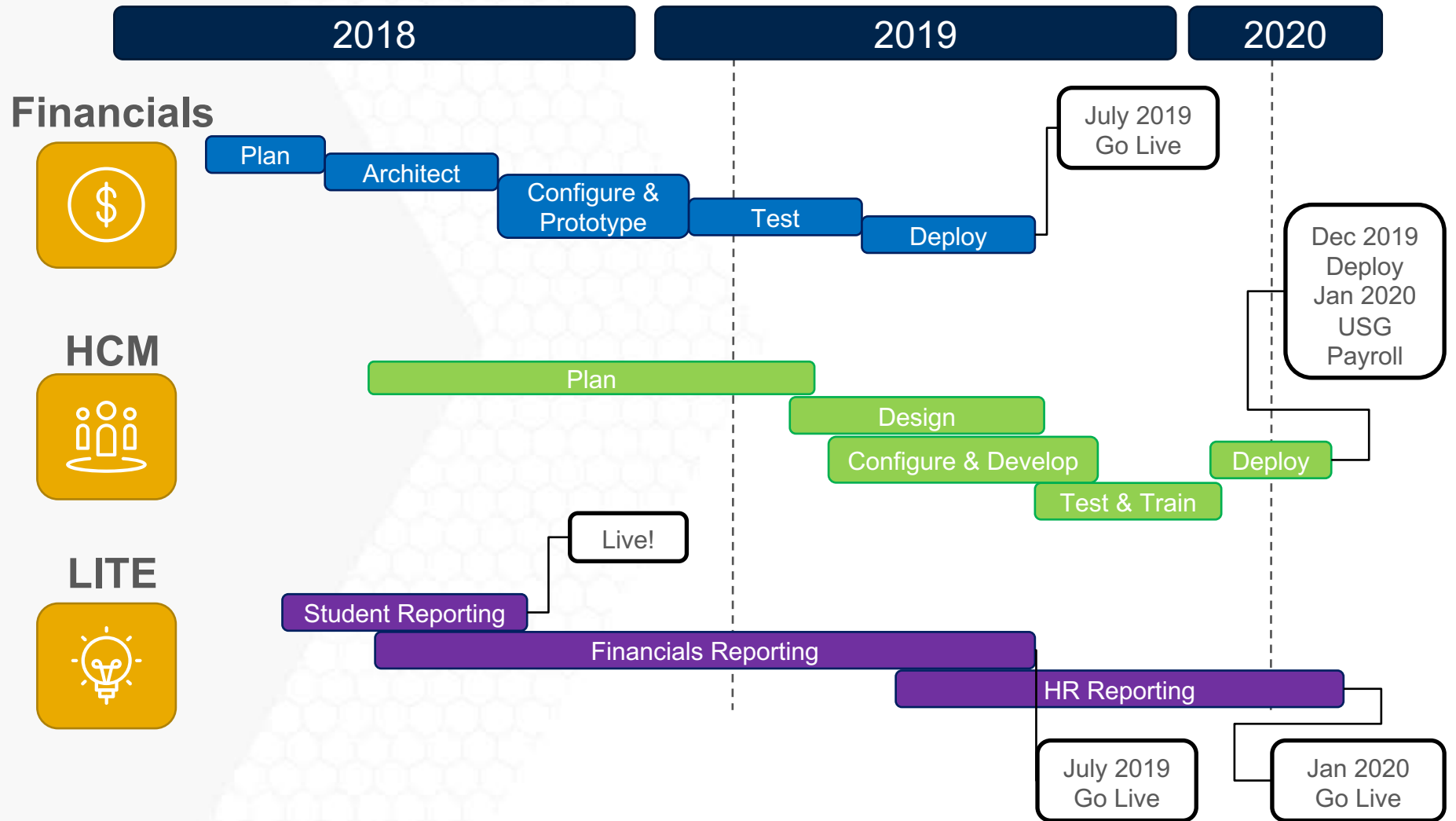The Yellow Jackets finished the season ranked fifth in the nation.

SUPPLY CHAIN & LOGISTICS INSTITUTE TEAMS WITH GEORGIA PORT AUTHORITY AND STATE ECONOMIC DEVELOPMENT

Georgia Tech

Relationship will enable the Savannah port, the country's fourth largest in total volume and fastest growing port, to:

- Expand effective reach of imports and exports

- Leverage latest technologies

- Improve global trade coordination

PORTFOLIO TIMELINE

Georgia Tech

2018	2019	2020

Financials

Plan
Architect
Configure & Prototype
Test
Deploy

July 2019 Go Live

Dec 2019 Deploy Jan 2020 USG Payroll

HCM

Plan
Design
Configure & Develop
Test & Train
Deploy

LITE

Live!

Student Reporting

Financials Reporting

HR Reporting

July 2019 Go Live

Jan 2020 Go Live

CREATING THE NEXT

GEORGIA TECH ECOCAR TEAM WINS TOP PRIZES IN DIVERSE CATEGORIES

The team placed fifth overall and won nine prizes in the final year of EcoCAR 3.

Jessica Britt won the Excellence in Leadership Award and the General Motors Women in Engineering Award.

The Georgia Tech EcoCAR 3 team is part of the Vertically Integrated Projects Program.

INCREASED RETENTION SEEN AMONG STUDENTS WHO USE CRC AT LEAST ONCE PER WEEK

Since fall 2007, CRC has been tracking students walking through its turnstiles.

After 10 years of collecting data, analysts found that **90 percent of first years who go to the CRC frequently and 93 percent who go daily** persisted to their second year.

However, among first years who never went to the CRC, only 77 percent persisted to their second year.

GENDER EQUITY INITIATIVES IMPLEMENTATION UPDATES

Georgia Tech

Hiring, Promotion, and Tenure

- Offering five additional **Implicit Bias Workshops** this fall.

Professional and Leadership Development

- Continuing to offer the **Emerging Leaders Program, Inclusive Leaders Academy,** and **Leading Women@Tech**.

Learn more at diversity.gatech.edu/ GenderEquityInitiatives.

FASTER DETECTION, NETWORK INFECTION CLEANUP ARE GOALS OF $12.8 MILLION PROJECT

Researchers will develop ways to accelerate detection and remediation of infections in networks.

The system will detect changes in computer systems by analyzing suspicious network traffic that appears before malicious software or malware can be identified.

The project will accelerate the cleanup after such infections.

Georgia Tech

GLOBAL ENGINEERING LEADERSHIP MINOR

Educating global engineer-leaders ready to tackle the world's grand challenges.

Some classes have embedded international travel.

Open to all engineering disciplines.

ce.gatech.edu/leadership

IMAGING TECHNIQUE UNLOCKS THE SECRETS OF 17TH-CENTURY ARTISTS

Researchers peer through pigment layers to see how painters produced masterpieces.

The technique could detect previous restorations, show potential damage, and help authenticate old works.

It could help detect skin cancer, ensure proper adhesion of turbine blade coatings, and measure the thickness of automotive paints.
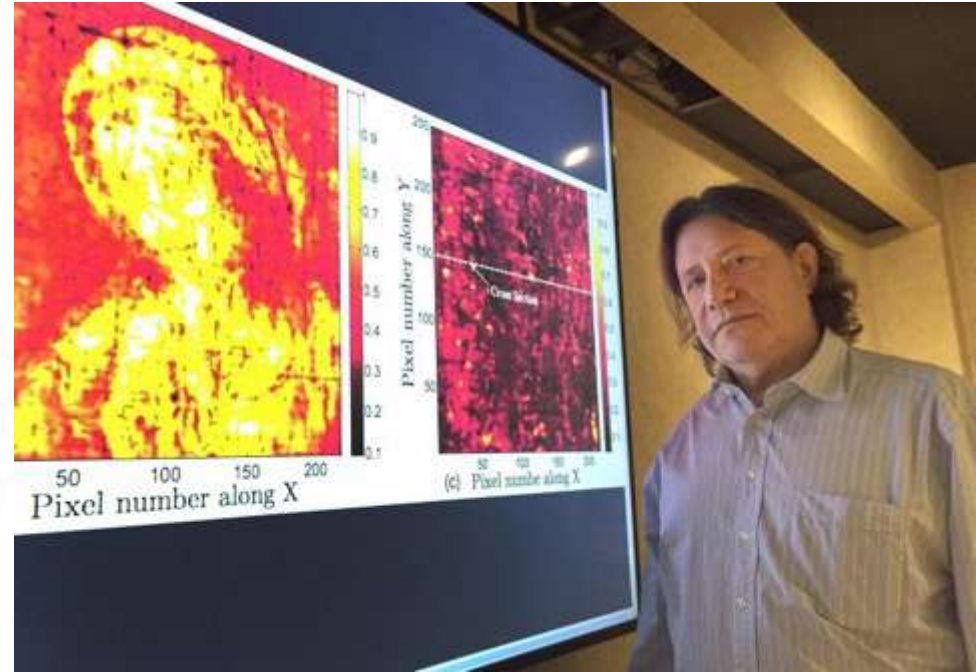
ACC IN D.C.

Georgia Tech student leaders met with Congressman John Lewis and others during the annual **ACC Advocacy Day** in Washington, D.C.

SAVANNAH NAMED LOGISTICS TECHNOLOGY CORRIDOR

- Georgia legislation was passed to name Savannah the Logistics Technology Corridor.

- The goal is to attract business to the Savannah area.

- Georgia Tech-Savannah is active on the task force to assess the potential logistics companies that could relocate to Savannah.

CREATING THE NEXT K-12 COMPUTER SCIENCE TEACHERS

The College of Sciences' Center for Education Integrating Science, Mathematics and Computing (CEISMC) will train 90 new K-12 computer science teachers in 27 Georgia school districts with *code.org*.

# WOMEN IN ARCHITECTURE CREATE INSTALLATION PROMOTING EQUALITY

"The Veil" installation on the Beltline was designed, fabricated, and installed by the Women in Architecture student organization in the School of Architecture. In the fall 2018 semester, "The Veil" will move back home for installation on the Georgia Tech campus.

"The Veil" represents the unity of the Women in Architecture organization and promotes equality within the field of architecture.

ADVANCED MATERIALS & INTERFACES
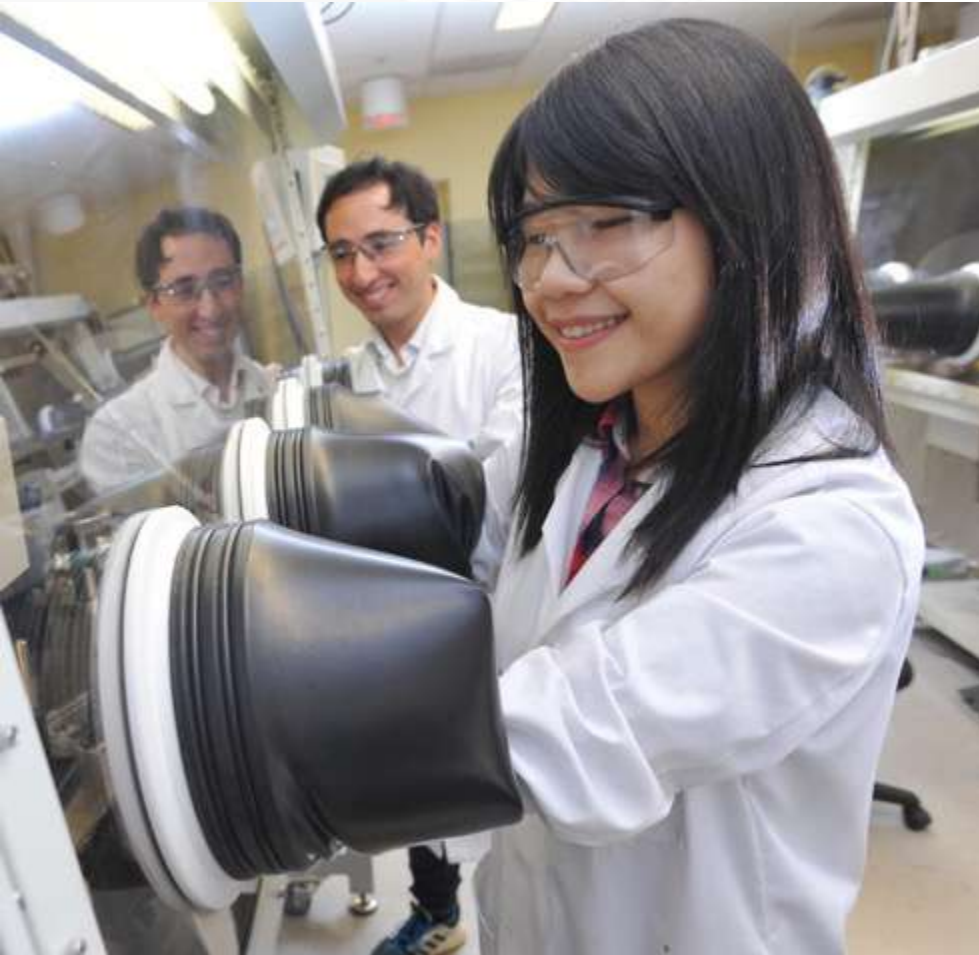
The Science and Technology of Advanced Materials and Interfaces (STAMI) Interdisciplinary Research Institute provides thought leadership.

2017 *Industrial Partners Day* drew >20 companies and >150 faculty and students.

2018 *Soft Matter Forefronts* Symposium brought 18 international leaders to Georgia Tech.

Georgia Tech

7068 Unique Guests

7300 Bed Nights

2962 Overnight Youth

68 Summer Programs

732 Interns & Georgia Tech Departmental Researchers

73,000 Meals

32 FT Student Staff

400 BuzzCards

LANGUAGE SUPPORT FOR INTERNATIONAL STUDENTS

- Language Institute collaborated with the Office of Graduate Education and Faculty Development to offer support to international graduate students.

- Initiatives include courses in academic research writing, strategic reading and listening, a screening process and support courses for TA's, among others.

DANIEL GUGGENHEIM SCHOOL NAMED A VERTICAL FLIGHT HERITAGE SITE

A distinction given to just 10 sites worldwide by the American Helicopter Society (AHS)

SPORTS TECHNOLOGY INNOVATION

The Georgia Tech Athletic Association and the Institute for People and Technology (IPaT) are collaborating to advance technology that improves sports performance and enhances the fan experience.

Using augmented reality, the Interactive Media Technology Center is giving fans an in-depth look at the Atlanta Braves and SunTrust Park.
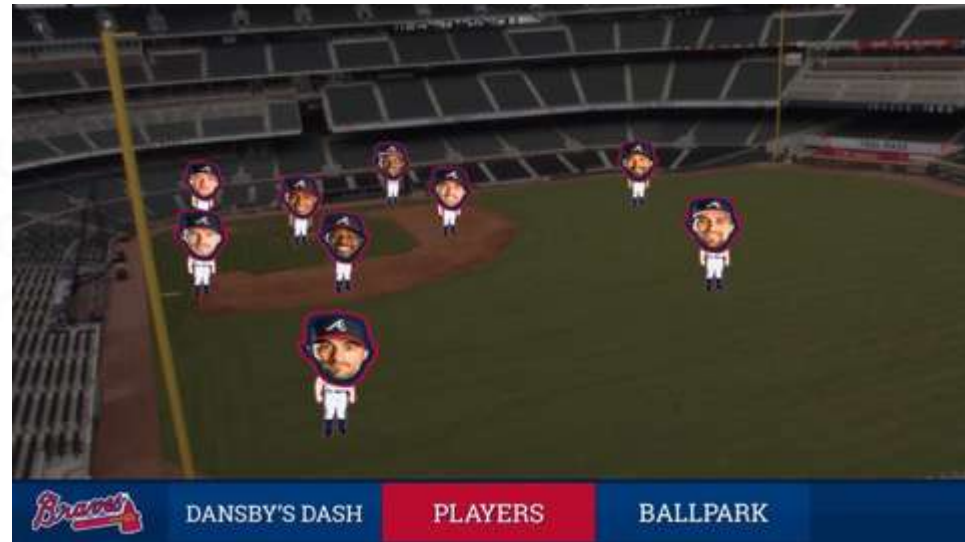
LIFETIME LEARNER POPULATION GROWS

- GTPE served more than 36,000 lifetime learners worldwide in FY18.

- Total enrollment increased by 10% in past two years.

- More than 2,600 companies served in FY18.

- More than 3.3 million learners take Georgia Tech's MOOCs.

Georgia Tech

53% of undergraduate students have an international experience prior to graduation. GT offers more than 100 international programs. Two to four new faculty-led study-abroad programs are created each year through the Emerging Faculty Leaders program.

BOOTCAMPS GROW TO MEET INDUSTRY DEMAND

- Since 2017, GTPE's Coding Bootcamps in Atlanta and Savannah have led to 309 graduates and 233 active students.

- GTPE has added bootcamps in Data Science and Analytics, and in Cyber and Network Security to address industry demand.

- Partnership with Georgia Tech and Prototype Prime led to new Coding Bootcamp to be offered in Peachtree Corners innovation hub.

COMING SOON: CODA BUILDING "ORCHESTRATING INNOVATION"

Scheduled to open in spring 2019, CODA is designed as a premier mixed-use development spanning 770,000 square feet with Georgia Tech as the primary tenant.

- 645,000^2 ft. Office Space

- 80,000^2 ft. High Performance Computing Center

- 30,000^2 ft. Street Level Retail

- 20,000^2 ft. Outdoor Living Room

Georgia Tech

The women's tennis team embarked on a dramatic postseason run that took them to the semifinals of the NCAA Championships.

"I'm really proud of my team. They were able to come together, play for each other, and fight hard," said head coach Rodney Harmon.

The team finished the season with a 25-6 record.

- Carbon fibers with 25% higher stiffness and 30% lower density than commercial state-of-the-art fibers are being fabricated with funding from DARPA, AFOSR, AFRL, and Boeing
- Technology has been developed to reduce more than 50% energy consumed in carbon fiber manufacturing
- Nanocomposites containing carbon nanotubes are being developed with factor-of-two improvement in strength, stiffness, and toughness with funding from NASA & SABIC

Unique fiber spinning and carbonization lab has been established in MSE at Georgia Tech

COMING SOON: THE DALNEY BUILDING AND PARKING GARAGE

Work has begun on the Dalney Building and 800-space parking deck, slated to open in fall 2019.

The design will allow for a future solar panel array on the office and garage roofs, and provide space for a blackwater reclamation system on the first level of the office.

MATHEMATICS APPLIED TO THE AIRCRAFT MICROBIOME

Together with researchers from Emory University, College of Sciences mathematician **Howie Weiss** studied microbes in aircraft cabins to assess possible transmission of infectious disease during flights.

Atlanta's newly elected **Mayor Keisha Lance Bottoms** addressed undergraduate students at Spring Commencement.

DEAN MARYAM ALAVI NAMED 2017 WIT WOMAN OF THE YEAR

Scheller College of Business Dean **Maryam Alavi** was named Woman of the Year for the Mid-Size Organization and Educational Institution by Women In Technology (WIT).

The WIT Awards celebrate women and girls during the entire lifecycle of their STEAM careers and in their visionary efforts to transform the world of business and technology.

SWARM VS. SWARM

GTRI Researchers co-led, and shared simulation software with student teams, for the Defense Advanced Research Projects Agency (DARPA) Service Academies Swarm Challenge.

Twenty-five highly autonomous unmanned aerial vehicles (UAVs) competed against one another in a next-generation version of the traditional "Capture the Flag" game.

ACC HONOR ROLL RECORD FOR 2017-18

For the past school year, 201 student-athletes were named to the Atlantic Coast Conference Honor Roll for maintaining a 3.0 GPA.

The track and field program led the way with 57 honorees, while swimming and diving added 42. The football program was third with 35.

CIVIL & ENVIRONMENTAL ENGINEERING WELCOMES NEW SCHOOL CHAIR

Georgia Tech

- **Donald Webster** became the Karen and John Huff School Chair on May 1.

- Works in environmental fluid mechanics, especially their effects on biological systems.

- A leading innovator in the classroom and often named one of Georgia Tech's top teachers.

- Fellow of the Association for the Sciences of Limnology & Oceanography.

On-Campus Internationalization collaborates with faculty to offer several new and existing OIE initiatives, including two globally focused Living Learning Communities, short-term programs for international students, International Education Week, and programs for intercultural learning.

PREVENTING HOSPITAL INFECTION

Recent Georgia Tech graduates are using computer vision and artificial intelligence to help hospitals prevent surgical-site infection.

They developed the technology as part of the Convergence Innovation Competition, produced by the Institute for People and Technology (IPaT), and have since founded a company called Sanus Solutions.

GEORGIA TECH'S EUROPEAN CAMPUS

A record 300 undergraduates studied at Georgia Tech-Lorraine in Summer 2018.

Since 1990, more than 7,800 undergraduate and graduate students have studied on the campus, located in Metz, France.

GEORGIA TECH ALUMNI ASSOCIATION PHILANTHROPY

- 70th Annual Roll Call culminated with 33,500 donors and exceeded $10 million dollars for the first time in Roll Call's history

- At $6.7 million, unrestricted dollars raised is also the highest ever

- More than $380,000 in scholarships money awarded by Alumni Network and Affinity Groups to incoming students

Georgia Tech

*** $19 million in renovations, repairs & upgrades**

* $1.875 million in Wi-Fi upgrades in North Avenue, Zbar, ULC, Crecine, Center Street, and GLC Apartments

OMS CYBERSECURITY

- Georgia Tech's third degree-at-scale, Online Master of Science in Cybersecurity, was approved this summer and will start in spring 2019.

- Cost of tuition is under $10,000.

- Interdisciplinary degree is a collaboration between College of Engineering, College of Computing, and Ivan Allen College of Liberal Arts.

CREATING THE NEXT

TAKING THE BRAKES OFF CELL SIGNALING
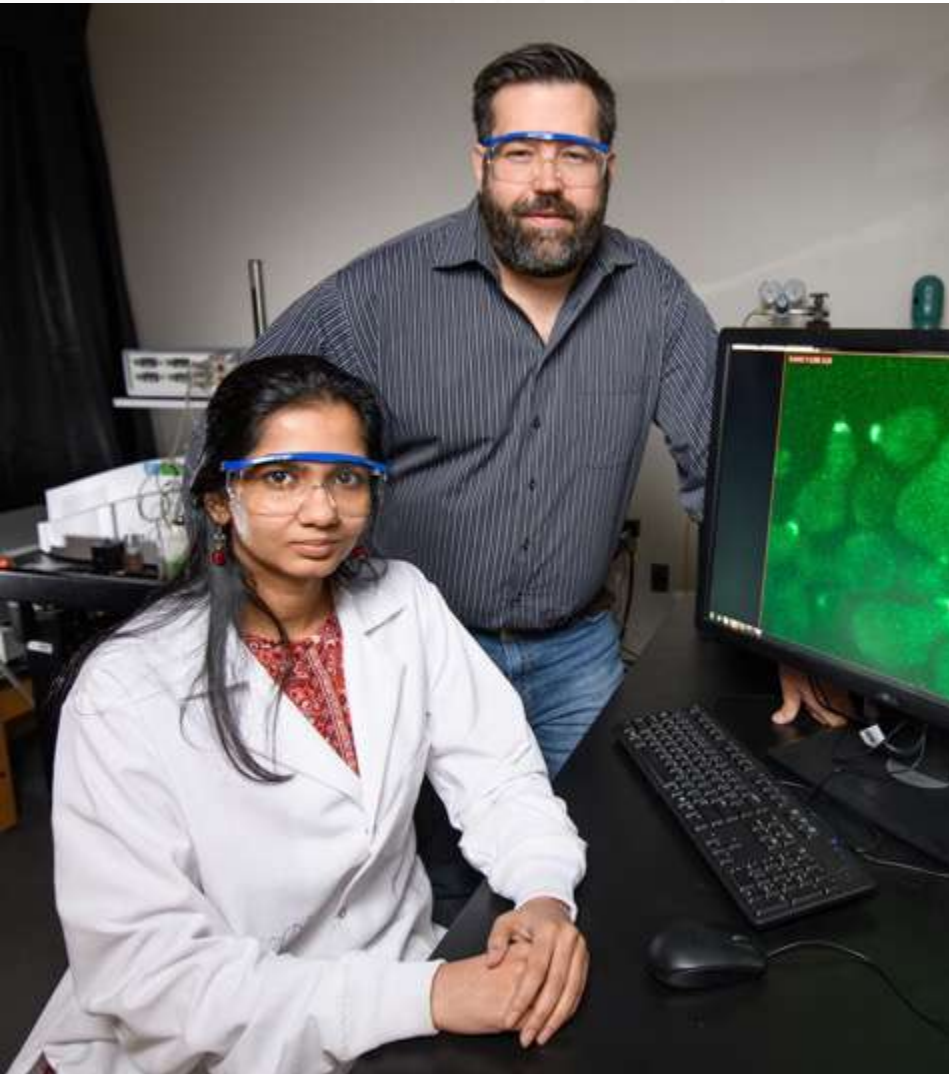
College of Sciences biologist **Matthew Torres** and Ph.D. candidate **Shilpa Choudhury** combine bioinformatics, machine learning, and molecular biology to reveal how novel protein regulation mechanisms control cell signaling as a foundation for the discovery of new pharmaceuticals.

GEORGIA TECH MOU WITH GEORGIA PORTS AUTHORITY

- Georgia Tech Supply Chain and Logistics Institute (SCL) signed an MOU on July 31 with Georgia Ports Authority and Georgia Center for Innovation, in Savannah, in support of next-generation port logistics research, innovation, and education.

- Key goal is to help ensure that the Georgia Ports Authority network remains efficient in the face of continual change.

LI LAUNCHES LANGUAGE LEARNING APP

- Georgia Tech Language Institute (LI) collaborated with C21U to design a language-learning app.

- The app is based on the highly successful MOOC "Speak English Professionally," which is the most popular of five MOOCs offered by LI on Coursera.

- The app launched in early August.

Georgia Tech

You are cordially invited to the

10th Annual Diversity Symposium

Wednesday, Sept. 5, 2018

7:30 a.m. – 2:30 p.m.

Georgia Tech Global Learning Center and Georgia Tech Hotel and Conference Center

Learn more at

diversity.gatech.edu/ DiversitySymposium

OPENING KEYNOTE SPEAKER
Charlayne Hunter-Gault
Award-Winning Journalist and Author

LUNCHEON KEYNOTE SPEAKER
Ange-Marie Hancock Alfaro
Professor and Chair, Gender Studies University of Southern California

ANOTHER SLOAN FELLOW AWARD TO GEORGIA TECH

In the School of Chemistry & Biochemistry, **Vinayak Agarwal** studies how marine plants and animals create a unique chemical niche and how marine chemistry can be adapted for pharmaceutical and environmental applications.

# SUCCESSFUL IMPLEMENTATION OF PHA'S HEALTHY CAMPUS INITIATIVE

Georgia Tech is one of 21 institutions across the country to implement the **Partnership for a Healthier America Inc**. (PHA) Healthy Campus Initiative guidelines.

Health Initiatives, Dining Services, Campus Recreation, and Parking & Transportation Services have worked together to implement the 23 required guidelines.

Tech has increased student access to healthy, sustainable food, expanded opportunities for physical activity, and implemented programs for the food insecure.

UNDERWATER ROBOT EXPLORES OCEAN FLOOR IN ANTARCTICA
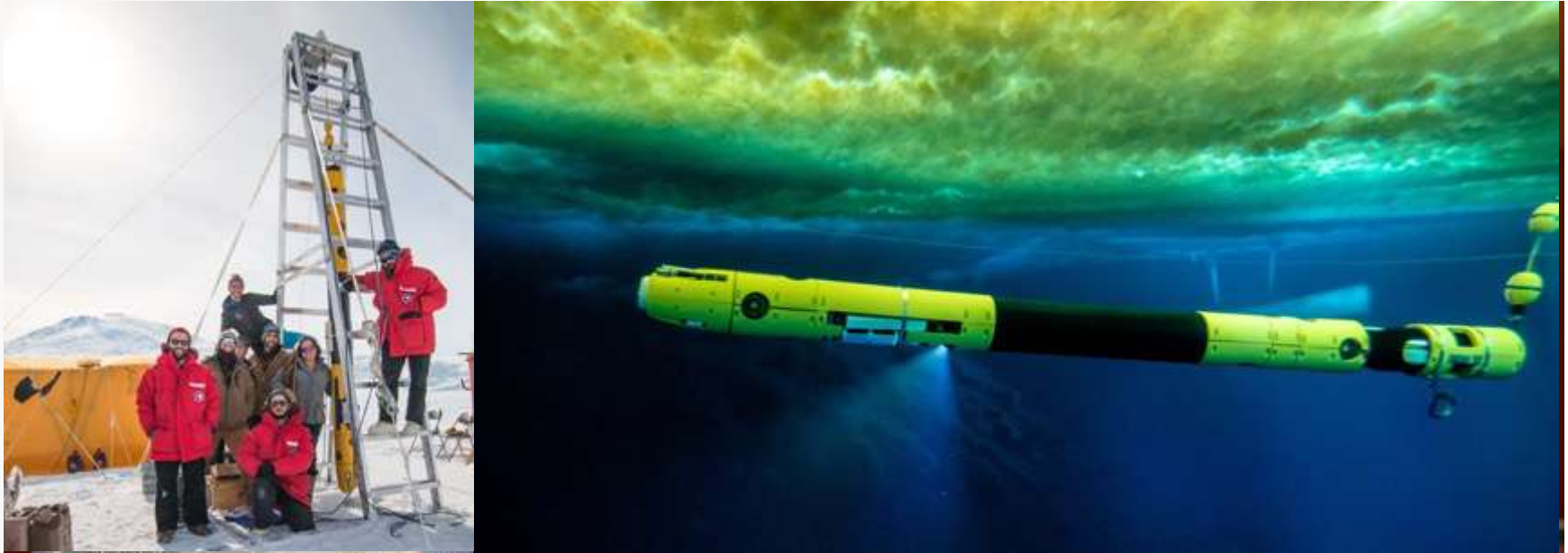
Underwater robot *Icefin*, developed by a team led by College of Sciences astrobiologist **Britney Schmidt**, found evidence for sea mounts near McMurdo Station in the Antarctic.

Georgia
Tech

Academics

- Expanded **OMED's Challenge program enrollment** to 110 students this summer.

- Delivered diversity, equity, and inclusion remarks by the Institute Diversity executive team at each **FASET session** this summer.

Reporting System

- Expanded the **EthicsPoint reporting system** for the Institute.

Learn more at diversity.gatech.edu/ BlackStudentExperienceTaskForce.

SOUTHEAST CENTER FOR MATHEMATICS AND BIOLOGY @GT
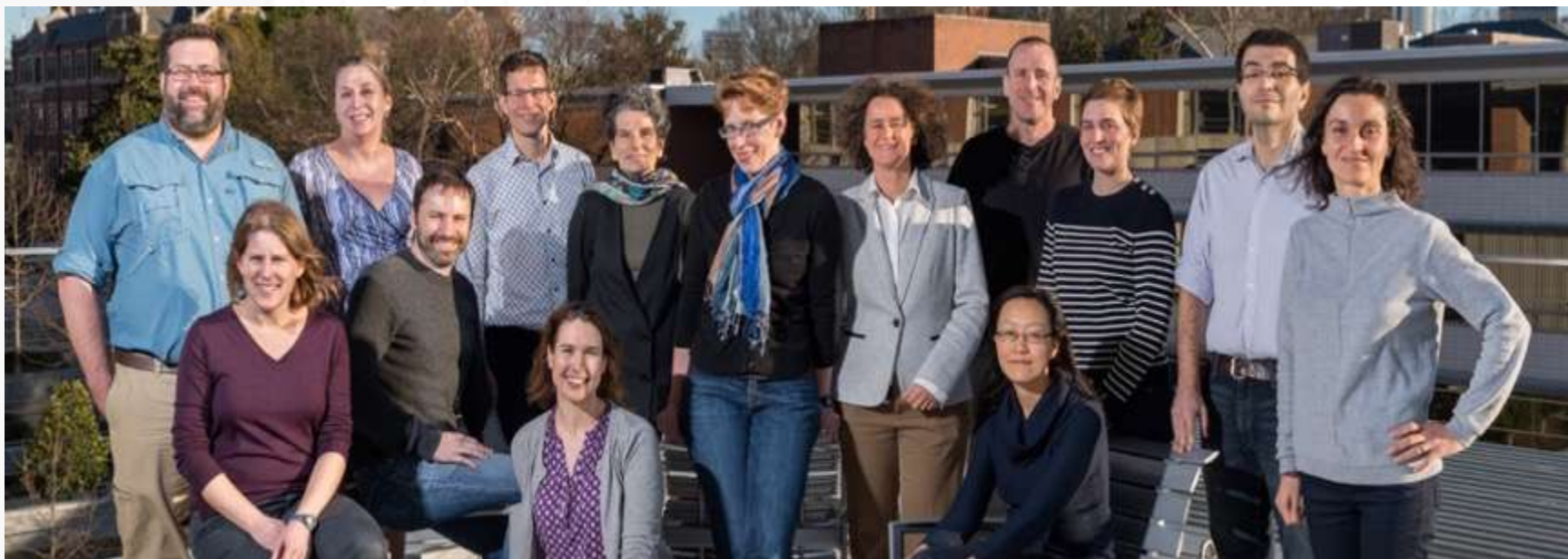
Led by College of Sciences mathematician **Christine Heitsch**, the Southeast Center for Mathematics and Biology advances cross-disciplinary connections.

ECONOMIC DEVELOPMENT LAB, GATV AID PUERTO RICO ENTREPRENEURS

Following the devastation of Hurricane Maria, Georgia Tech temporarily offered more than 2,000 square feet of office space to entrepreneurs and innovators from the island of Puerto Rico.

The initiative stemmed from Economic Development Lab hosting a delegation of business and government leaders and educators from the island in November 2017.

Georgia Tech

CARBON REDUCTION CHALLENGE – STUDENTS ENGAGING FOR CHANGE

Georgia Tech

Kim Cobb and **Beril Toktay** co-direct the Carbon Reduction Challenge program in which Georgia Tech students partner with local businesses to implement energy savings. Projects save the release of 12M pounds of CO_2 emissions and save businesses energy costs.

MILITARY PROGRAM WINS BEST PROGRAM AWARD

- Georgia Tech's Veteran's Training and Transition Program was selected as the 2017/18 Best Program for Special Populations by the University Professional and Continuing Education's (UPCEA) Southeast Region.

- The program was the first active-duty internship program in the country and is now active at five Georgia military installations.

"PRESENCE" — EXAMINING THE SCIENCE BEHIND MINDFULNESS

PAUL VERHAEGHEN

PRESENCE

How Mindfulness and Meditation Shape Your Brain, Mind, and Life

OXFORD
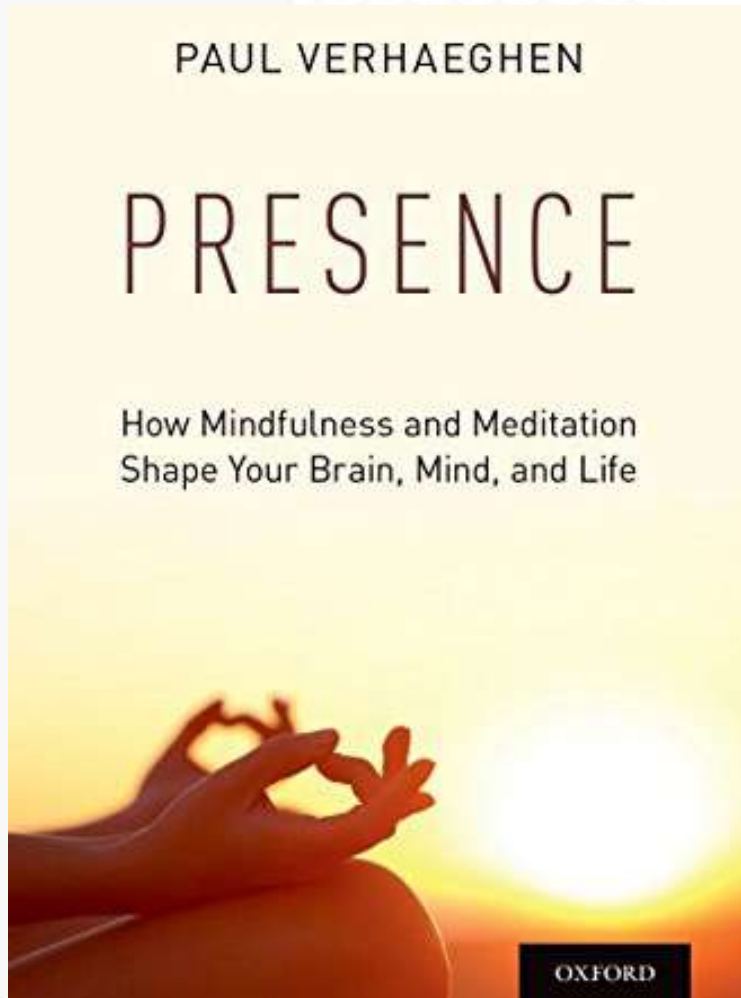
College of Sciences psychologist **Paul Verhaeghen** examines the scientific evidence behind claims that mindfulness-based meditation relieves stress, boosts productivity, and makes people happier.

LUKE SKYWALKER'S BIONIC HAND CLOSER TO REALITY

The Center for Music Technology at the College of Design has created a prosthetic hand that gives the wearer the dexterity to move fingers individually and play a piano.

Medgadget named it one of the best medical technologies of 2017.

The hand was developed in collaboration with the College of Sciences and the Woodruff School of Mechanical Engineering.

K-12 TEACHER INTERNSHIPS EXTEND TO RURAL GEORGIA

Georgia Tech's CEISMC, the Georgia Department of Education, and Georgia Foundation for Public Education partner to extend the GIFT program to K-12 teachers in rural counties, through the launch of a five-county pilot.

ENGAGE WELCOMES GOLDMAN SACHS, MORE STARTUPS

Goldman Sachs Group joined the 10 founding companies that invested in the Engage Fund, created in 2017 and managed by Tech Square Ventures.

The Engage Accelerator launched its second cohort of companies in spring 2018. Its fall 2017 startup cohort reported: 24 signed contracts between the startups and corporate partners and $18 million in closed financing.

Georgia Tech

Georgia Tech Facilities Management group was recently awarded the 2018 APPA Award for Excellence, the highest honor in higher education for outstanding achievements in facilities management.

With 535 people spread across 13 departments, Georgia Tech Facilities Management oversees the built environment for one of the country's most technically complex campuses.

HIGH-ENERGY NEUTRINOS FROM A GALAXY FAR, FAR AWAY

College of Sciences astrophysicist **Ignacio Taboada** contributed to the first-ever observation of high-energy neutrinos being emitted from a supermassive black hole at the center of a distant galaxy using the IceCube Neutrino Observatory telescope at the South Pole.

NEW $2.3 MILLION ATLANTA GLOBAL STUDIES CENTER FUNDED BY NRC

The Atlanta Global Studies Center (AGSC) — a new interdisciplinary consortium jointly founded at the Ivan Allen College School of Modern Languages (ML) and Georgia State.

Led by ML Chair Anna Westerstahl Stenport, AGSC will emphasize research and foreign language instruction and serve student populations that are traditionally underrepresented in international and advanced language studies.

GTPAC CYBERSECURITY PROJECT

The Georgia Tech Procurement Assistance Center produced an award-winning, free instructional video and template that provides step-by-step guidance to government contractors seeking compliance with Department of Defense cybersecurity regulations. The project was funded through a cooperative agreement with the Defense Logistics Agency and created with the support of the Georgia Institute of Technology.

MATH MAJOR WINS PRESTIGIOUS PRIZE

Undergraduate **Libby Taylor** was awarded the 2018 Alice T. Schafer Prize of the Association for Women in Mathematics.

The author of multiple research papers, Libby graduated with her B.S. in just two years before heading off to graduate school

EUROPEAN ENTREPRENEURSHIP FORUM

Georgia Tech

Paris, France — May 2018

50 alumni entrepreneurs, speakers, and guests from Europe and the U.S. met in Paris to build an alumni network to sustain and support entrepreneurship.

Energized and engaged alumni will continue the momentum at the next Forum in London.

CREATING THE NEXT

UNVEILING THE VIRAL ECOLOGY OF EARTH

Working in an international Simons Foundation collaboration, College of Sciences biologist **Joshua Weitz** uses ecological models to predict how virus infections of marine microbes transform the fate of cells, populations, and the cycling of carbon and other elements at global scales.

Largest International Plan graduating class:

42 students from 15 majors joined the ranks of IP alumni

GEORGIA SMART COMMUNITIES CHALLENGE

Georgia Smart is a first-of-its-kind opportunity for Georgia communities of any size to receive funding and Georgia Tech research support to envision, explore, and plan for their smart future.

A panel of judges selected the city of Albany, city of Chamblee, Chatham County, and Gwinnett County for the inaugural challenge.

GEORGIA TECH STUDENT ALUMNI ASSOCIATION

- 6,936 student donors to Georgia Tech

- Through Gift to Tech, SAA donated more than $35,000 to the LGBTQIA Resource Center

- Received awards for Outstanding Student Organization, Outstanding Student Leader — **Rani Tilva**, and Outstanding Student Advancement Program — Ramblin' On

GTMI ADVANCED MANUFACTURING PILOT FACILITY OPENS IN SEPTEMBER 2017

The GTMI Advanced Manufacturing Pilot Facility (AMPF) is a place where teams incorporating academic, industrial, and/or government expertise can develop, scale, and deploy next-generation technologies. It provides an immersive learning environment for student engagement via internships and cooperative work positions. Delta and Boeing were the first to establish a presence at AMPF. Delta provided generous funding to refurbish the facility prior to its opening.
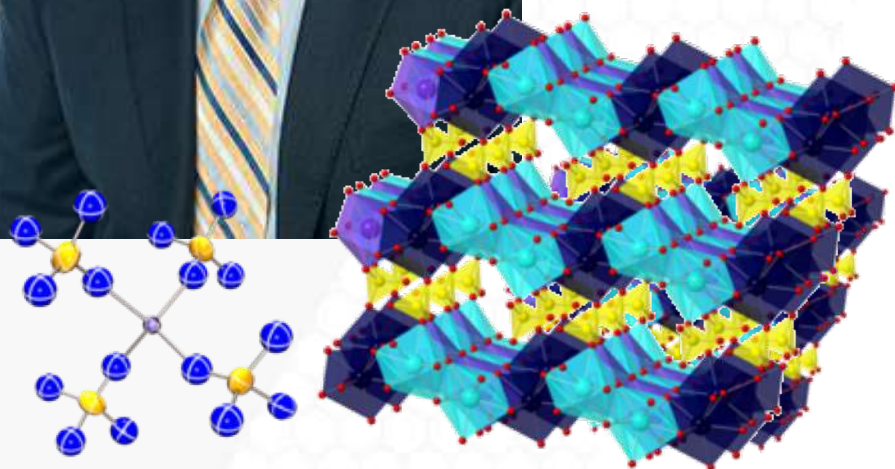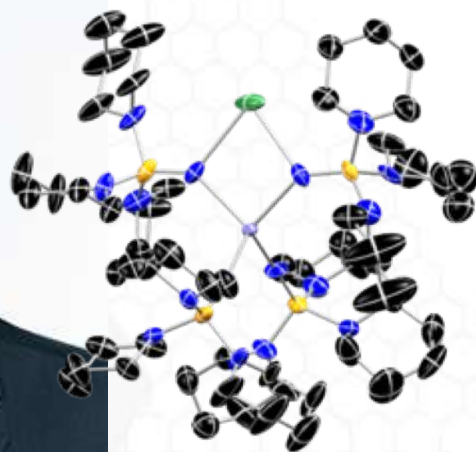
Georgia Tech

THE FUTURE OF JOB TRAINING

Researchers are improving health care worker safety and changing the future of work environments.

Augmented-reality training is helping Emory Hospital nurses to care for Ebola patients.

Thanks to a CDC grant, researchers are exploring how to increase health care worker safety during the treatment of Ebola patients.

NSF'S $500K GRANT FURTHERS INSTITUTE'S COMMERCIALIZATION EFFORTS THROUGH I-CORPS

The National Science Foundation named Georgia Tech an Innovation Corps (I-Corps) Site and awarded it a $500,000 grant to help Institute-based research teams identify and interview target customer audiences.

The grant is managed by Tech's VentureLab incubator, which helps Institute faculty, staff, and students evaluate their research and create startups based on those findings.

At Tech, the I-Corps Sites grant will support up to 150 research teams.

LANGUAGE INSTITUTE CELEBRATES 60TH ANNIVERSARY

- Language Institute (LI) celebrates its 60th anniversary.

- It began in 1958 as a summer program to help prepare international students for study at Georgia Tech.

- LI has served thousands of students from more than 100 countries.

NEW $3.3 MILLION HEALTH ECONOMICS ANALYTICS LAB FOUNDED IN IVAN ALLEN

A partnership with the American College of Radiology's Neiman Institute led by economics Professor Danny Hughes, HEAL will focus on applying big data analytics and artificial intelligence to large-scale medical claims databases — with a focus on medical imaging — to better understand how evolving health care delivery and payment models affect patients and providers.

Construction began on The Kendeda Building for Innovative Sustainable Design. Formerly referred to as the Living Building at Georgia Tech, the project is on track to become the first Living Building Challenge 3.1-certified facility of its size and function in the Southeast.

BIOCHEMISTRY UNDERGRADUATE NAMED RHODES SCHOLAR

Georgia Tech

Biochemistry major **Calvin Runnels** became the sixth Rhodes Scholar from Georgia Tech and the first openly transgender recipient of the scholarship.

He will attend Oxford University, in the U.K., to pursue a second bachelor's degree in Philosophy, Politics and Economics.

# FULLY ACCESSIBLE MOOC RECEIVES INTERNATIONAL RECOGNITION

AMAC Accessibility Solutions and Research Center at the College of Design was recognized as a 2018 Innovative Practice on Accessibility from Zero Project in Vienna, Austria.

The MOOC teaches how to identify issues and create solutions to improve accessibility of information and communication technology.

Researchers collaborated with Georgia Tech Professional Education.
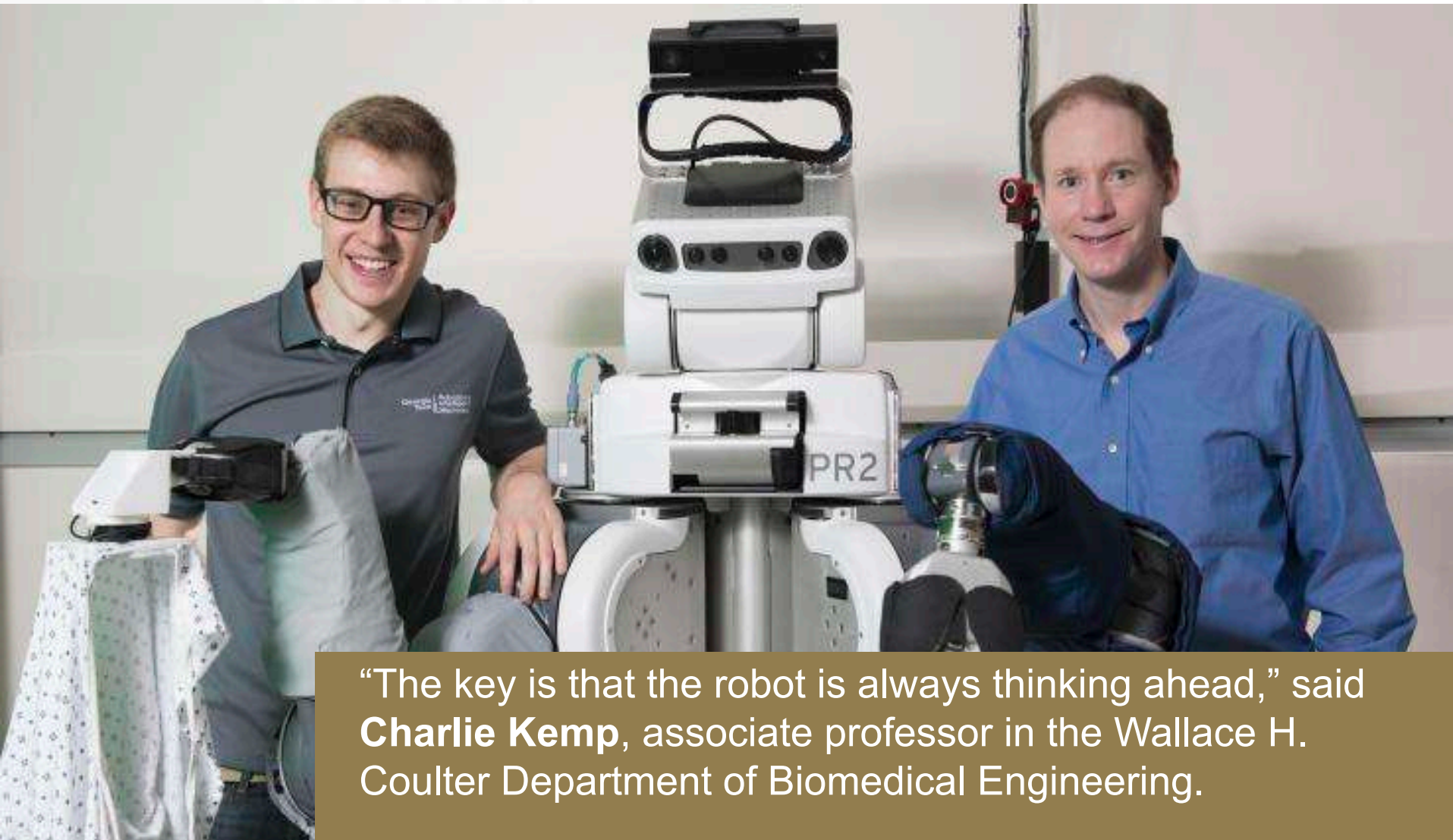
Georgia Tech has been re-accredited with a 4-star rating as part of the Professional Grounds Management Society's (PGMS) Accreditation, the highest certification given by PGMS.

Additionally, for the 10th year running, Georgia Tech was honored with 2017 Tree Campus USA® recognition by the Arbor Day Foundation for its commitment to effective urban forest management.

GaMEP LAUNCHES THREE MANUFACTURING INITIATIVES

Georgia Tech

GaMEP launched the Manufacturing Leadership Certificate to help new and existing manufacturers create and support a culture of continuous improvement within their plants.

GaMEP received two supplemental grants totaling $524K for the Machine Shop Assessment program to identify and recommend areas of improvements for shop growth and productivity, and the Machine Disaster Assistance Program, which allows GaMEP to help manufacturers in seven counties develop pre- and post-natural disaster protocols.

ARCHITECTURE STUDENTS CREATE VAULT FOR EXHIBITION AT FAB CITY SUMMIT IN PARIS

Students from the Parametric Precast Workshop, taught by School of Architecture lecturer Tristan Al-Haddad, produced a complex, ultrahigh-performance concrete vault for installation in the Fab City Summit Exhibition.

The exhibition took place at Parc de la Villette, and the vault was displayed July 11-23, 2018.
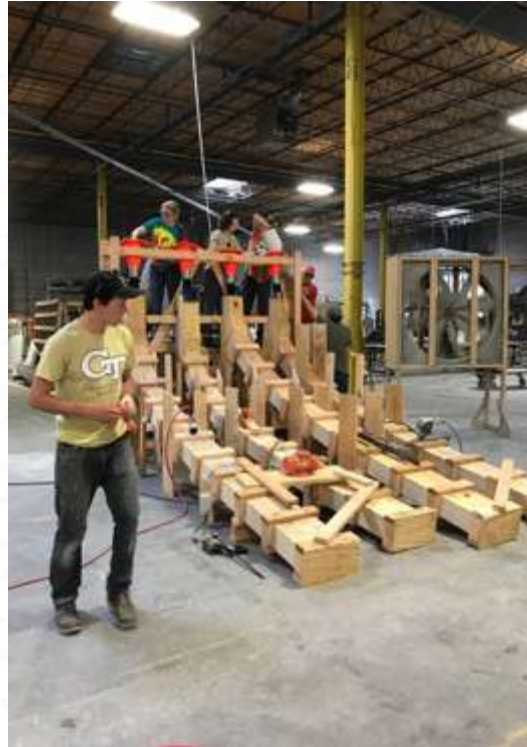
LIBRARY NEXT: A 21ST CENTURY TECHNOLOGICAL RESEARCH LIBRARY

Scheduled to open in early 2019, the Price Gilbert Crosland Tower is getting a top-to-bottom renewal as part of a two-phase library renovation.

Work will commence on Price Gilbert, slated for completion in spring of 2020.

Our physical spaces and library services are evolving to meet the changing research, teaching, and learning needs of the campus.
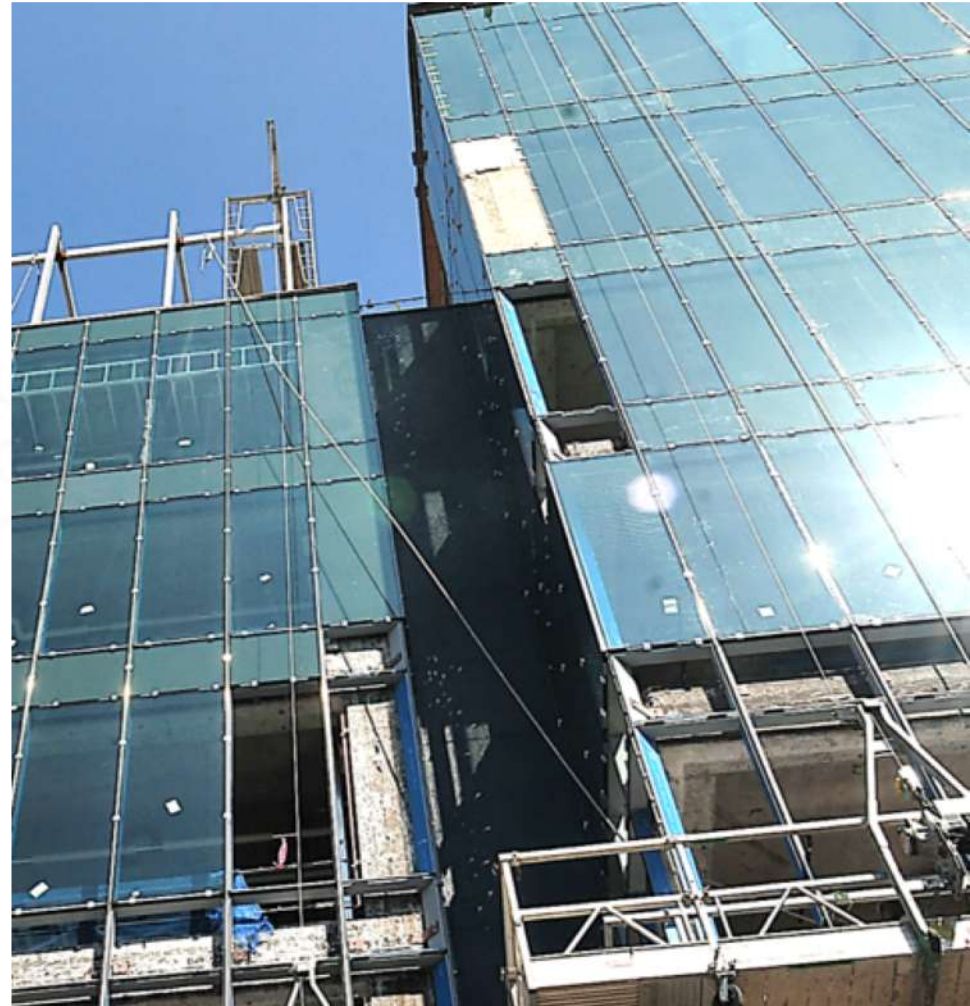
ATDC CREATES HEALTH TECH VERTICAL

NASCO, a leading provider of information technology products and services designed to help health care payers across the United States, made a significant commitment to the Advanced Technology Development Center (ATDC) to create a new initiative for entrepreneurs in health care-focused technology.

PROTECTING HEALTH CARE WORKERS FROM EBOLA

Cognitive Ergonomics Lab

With support from CDC and using person-centric analyses of human technical systems, College of Sciences psychologists redesigned how health care workers interact with personal protective equipment to minimize risk to health care providers.

ATDC'S STARTUP EXPANSION MILESTONE

In two years, ATDC more than doubled the number of resident startups it serves statewide, with the incubator working with more than 180 companies in its Signature and Accelerate portfolios.

That growth and collaboration with VentureLab and CREATE-X programs led to new suite buildouts in ATDC's second-floor Centergy space and a third-floor expansion that will house an 25 additional startups.

REMOTE CONTROL SHOOTS LASER AT NANO-GOLD TO TURN ON CANCER-KILLING IMMUNE CELLS
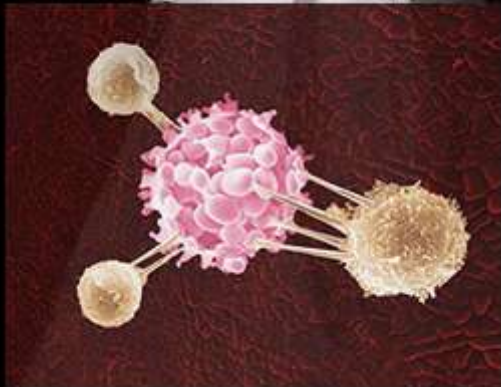
New method may help turn immunotherapy into a precision instrument in the fight against cancer. "In patients where radiation and traditional chemotherapies have failed, this is where T-cell therapies have shined, but the therapy is still new," said **Gabe Kwong** (Biomedical Engineering).

EI², ATDC LAUNCH TECH SQUARE INNOVATION WEEK

The first Tech Square Innovation Week featured more than a dozen events, including the 2018 ATDC Startup Showcase.

Hosted by EI² and ATDC, Tech Square Innovation Week brought the spotlight to the different programs and resources that make Tech Square a national model of an ecosystem where business and industry, entrepreneurs, students, and the investment communities thrive and grow.

CREATE-X ALUMNI

Gimme Vending — Gimme makes unattended retail a reality in vending, micro markets, and direct store delivery

FIXD — FIXD translates what your car is trying to tell you into simple, understandable terms.

STORD — STORD technology binds together hundreds of warehouse facilities to move your product quickly and cost-effectively.

NEW FRENCH IMMERSION PROGRAM

Georgia Tech-Lorraine and the School of Modern Languages launched a new French Immersion Program focused on French, Sciences, and Sustainability.

Students can improve their fluency in French and learn more about sustainability while living in Metz, France, one of France's most progressive "smart cities."

HIGH-IMPACT ENVIRONMENTAL RESEARCHERS
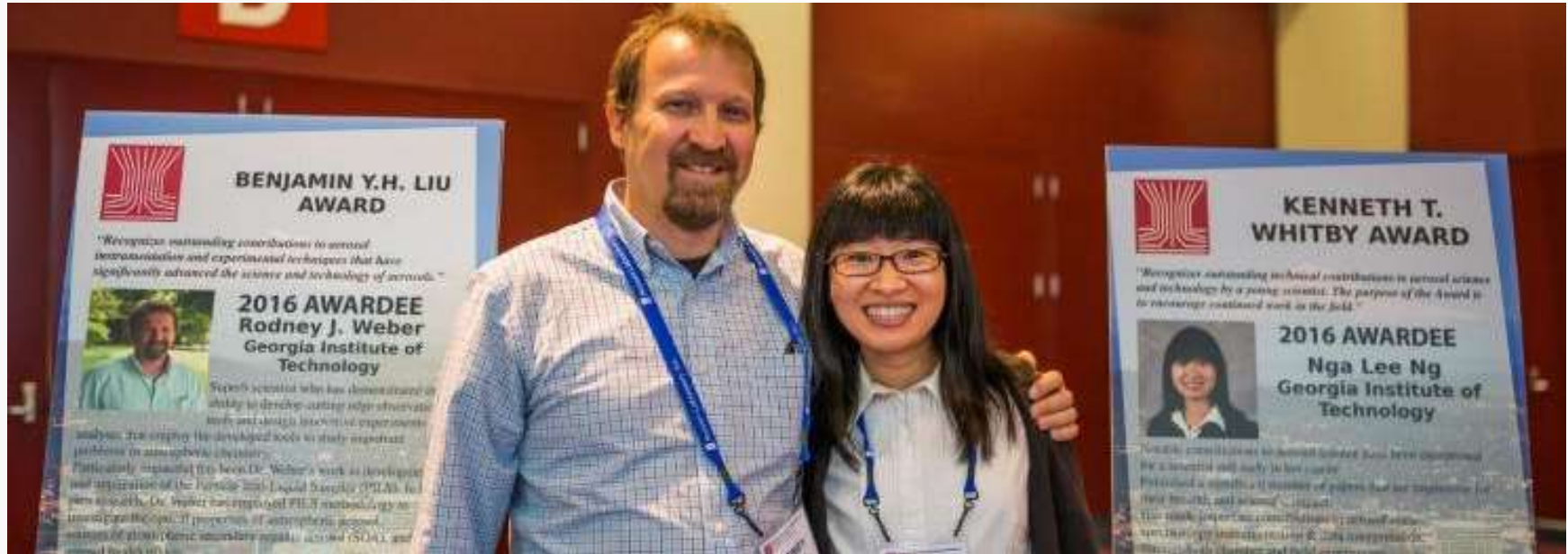
School of Earth and Atmospheric Sciences faculty **Sally Ng** and **Rodney Weber** are among the most highly cited environmental researchers, according to Clarivate Analytics.

INNOVATION ECOSYSTEMS HELP FOREIGN COMPANIES SEEKING TO DO BUSINESS IN GEORGIA AND U.S.

Innovation Ecosystems created a program — Soft Landings — to help foreign companies that want to establish or increase their business operations in the state as well as get a better understanding of the U.S. economy.

Soft Landings is a 14-week series of educational instruction workshops to help companies quickly assess multiple key factors while deciding if expanding in the U.S. makes sense.

SHES LAUNCHES PMOSH, ENSURES WORKER SAFETY

The Safety, Health and Environmental Services program (SHES) launched a first-of-its-kind Professional Master's in Occupational Safety and Health degree in Georgia, in partnership with Professional Education.

SHES' on-site safety and health consultation program marked its 40th year and identified more than 2K serious hazards protecting more than 98,000 employees from exposure.

Its OSHA Training Institute Education Center marked its 25th year.

CREATING A VISION FOR THE FUTURE OF SUSTAINABILITY AT GEORGIA TECH

Georgia Tech

The Office of Campus Sustainability completed Georgia Tech's first-ever comprehensive sustainability plan, titled "**The Strategic Plan for Sustainable Practice**."

The plan sets 10-year goals and objectives for key sustainability areas of campus, including water, the built environment, energy and emissions, community engagement, and materials management.

ISYE RESEARCHERS PARTNER WITH SF EXPRESS TO OPTIMIZE LOGISTICS

SF Express is the largest express-delivery and logistics service provider in China.

Projects will draw on:

- Machine learning

- Optimization

- Simulation

- Systems design methodologies

- Physical Internet concepts and principles

LOOKING TO THE PAST TO INFORM THE FUTURE

College of Sciences biologist **Joe Lachance** and undergraduate researcher **Taylor Cooper** apply precision-medicine approaches to explore the ancient human genome so as to determine how disease risks have evolved over time.

ROBINS AIR FORCE BASE, GEORGIA TECH, AND GTMI FORM PARTNERSHIP

In 2017, officials from Georgia Tech, the Georgia Tech Manufacturing Institute (GTMI), and Robins Air Force Base gathered to sign a proclamation that will form the basis of a new collaboration for the organizations. Officials also signed an Industrial Partners Program Membership Agreement between Robins Air Force Base and GTMI.