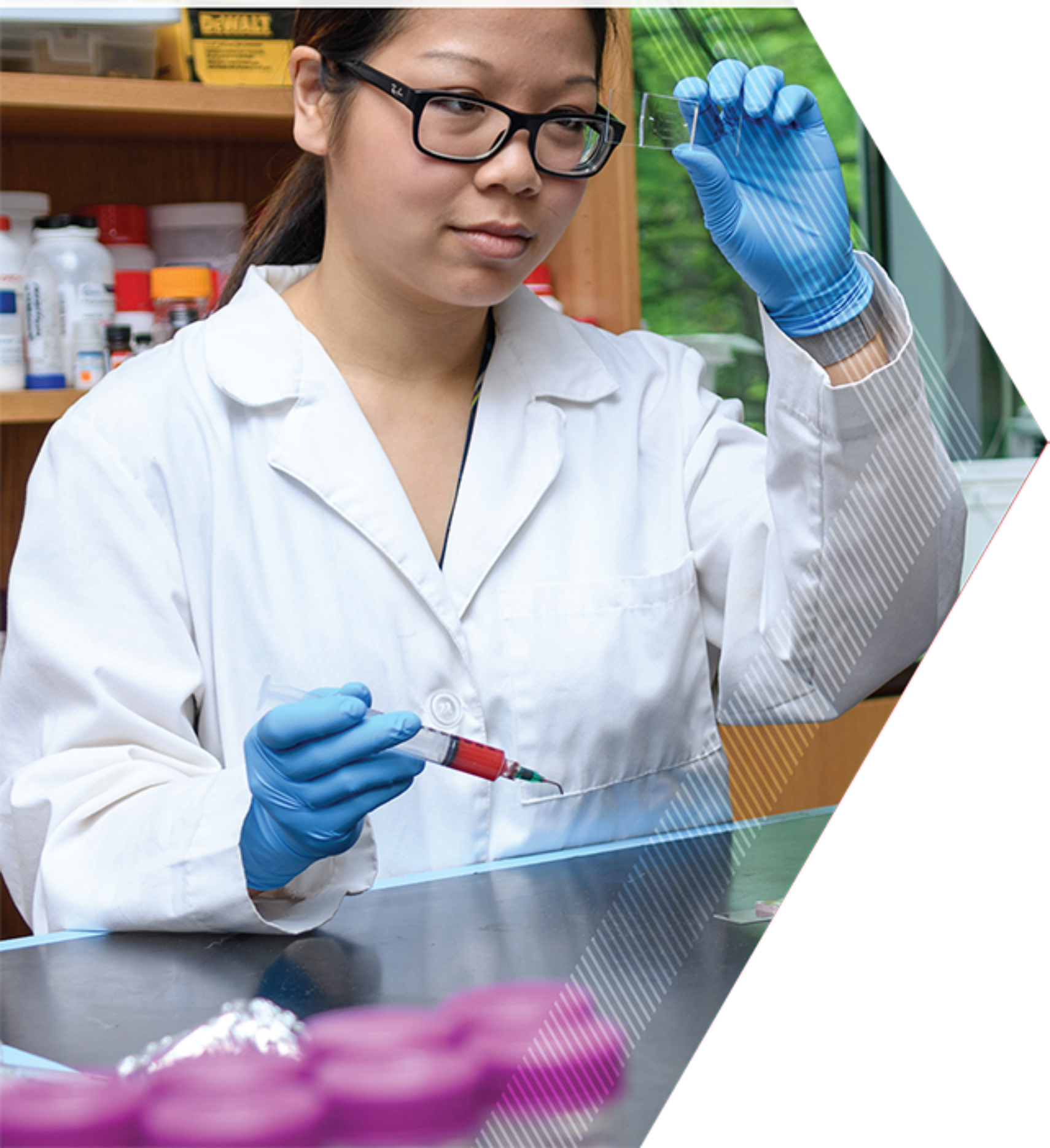


# » BIOENGINEERING AND BIOSCIENCE







## CREATING THE NEXT IN BIO-RESEARCH

### OUR MISSION:

To build a community within Georgia Tech and our partner institutions that catalyzes, cultivates, and deploys interdisciplinary research and education in bioengineering and the biosciences for economic and societal benefit.

The Petit Institute is "creating the next" in bio-research, supporting 234 faculty members, more than 1000 graduate students and postdocs, and 19 research centers including the National Science Foundation's Engineering Research Center in Cell Manufacturing Technologies. The interdisciplinary research institute supports a variety of education programs, and serves as headquarters of Georgia Tech's highly-ranked, multidisciplinary graduate programs in bioengineering, quantitative biosciences, and bioinformatics.

Additionally, the Petit Institute is home base for a cutting-edge high school program, Project ENGAGES, which provides a comprehensive research experience for minority high school students. And each year a new class of Petit Undergraduate Research Scholars, from Atlanta area universities, develops and conducts their own research projects for a full year.

Also, Georgia Tech's largest, most diverse graduate student group, BBUGS (Bioengineering and Bioscience Unified Graduate Students) is based in the Petit Institute.



I am honored to be the executive director of the Petit Institute for Bioengineering and Bioscience at such an exhilarating time for our bio-community. As I write this, we have more than 220 interdisciplinary faculty researchers (engineers, scientists, and clinicians) and 1,300 trainees leveraging almost \$90 million in research funding for discoveries that will transform health care and improve the global human condition.

Also, with approximately 20,000 people attending more than 400 events hosted by the Petit Institute in 2018, I am reminded of three words that perfectly describe our geographic strength: location, location, location. This is obviously the place to be. With our state-of-the-art core facilities, generous seed funding to support projects in the critical early stages, our 19 multidisciplinary research centers, and a thriving entrepreneurial spirit, we are well equipped to "Create the Next," whether it is the next collaborative discovery, the next educational opportunity, or the next startup company.

A NOTE FROM THE  
EXECUTIVE DIRECTOR  
**Andrés García**



I want to thank our faculty, trainees, and staff for helping to make my job so thrilling, and I look forward to leading the Petit Institute into an innovative, limitless future.

**Andrés J. García, Ph.D., F.B.S.E.**

Executive Director, Parker H. Petit Institute for Bioengineering and Bioscience  
Petit Director's Chair in Bioengineering and Bioscience  
Regents' Professor, George W. Woodruff School of Mechanical Engineering  
Georgia Institute of Technology



The Petit Institute for Bioengineering and Bioscience is a crossroads of interdisciplinary research, where engineers, scientists, and clinicians are tackling complex research problems, and striving to turn discoveries into game-changing healthcare solutions.

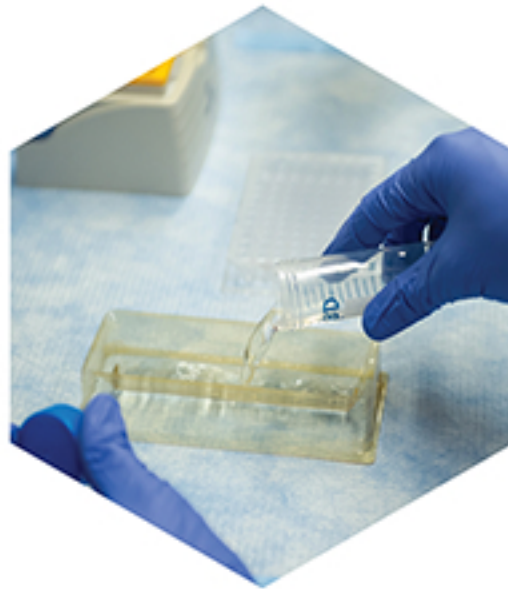
» RESEARCH  
FOCUS  
AREAS





# Growing the Bio-Community

## EDUCATING THE NEXT GENERATION OF BIO-RESEARCHERS



➤ **275** students  
in the interdisciplinary  
graduate programs in 2018  
(bioengineering - 120,  
quantitative biosciences - 25,  
and bioinformatics - 130)

➤ **103** High School  
Students Served  
by Project ENGAGES since  
it was launched in 2013

➤ **65** College  
scholarships  
earned by Project  
ENGAGES students

➤ **17** Petit  
Scholars  
from Georgia Tech,  
Georgia State University,  
Emory University, and  
Morehouse College in 2019

➤ **280+**  
Petit Scholars  
in 20 years of the program

➤ **200+**  
BBUGS  
members

➤ **1000+**  
Graduate Students  
and Postdocs



**234**

Faculty Members



**112**

Engineers



**91**

Scientists



**31**

Clinicians



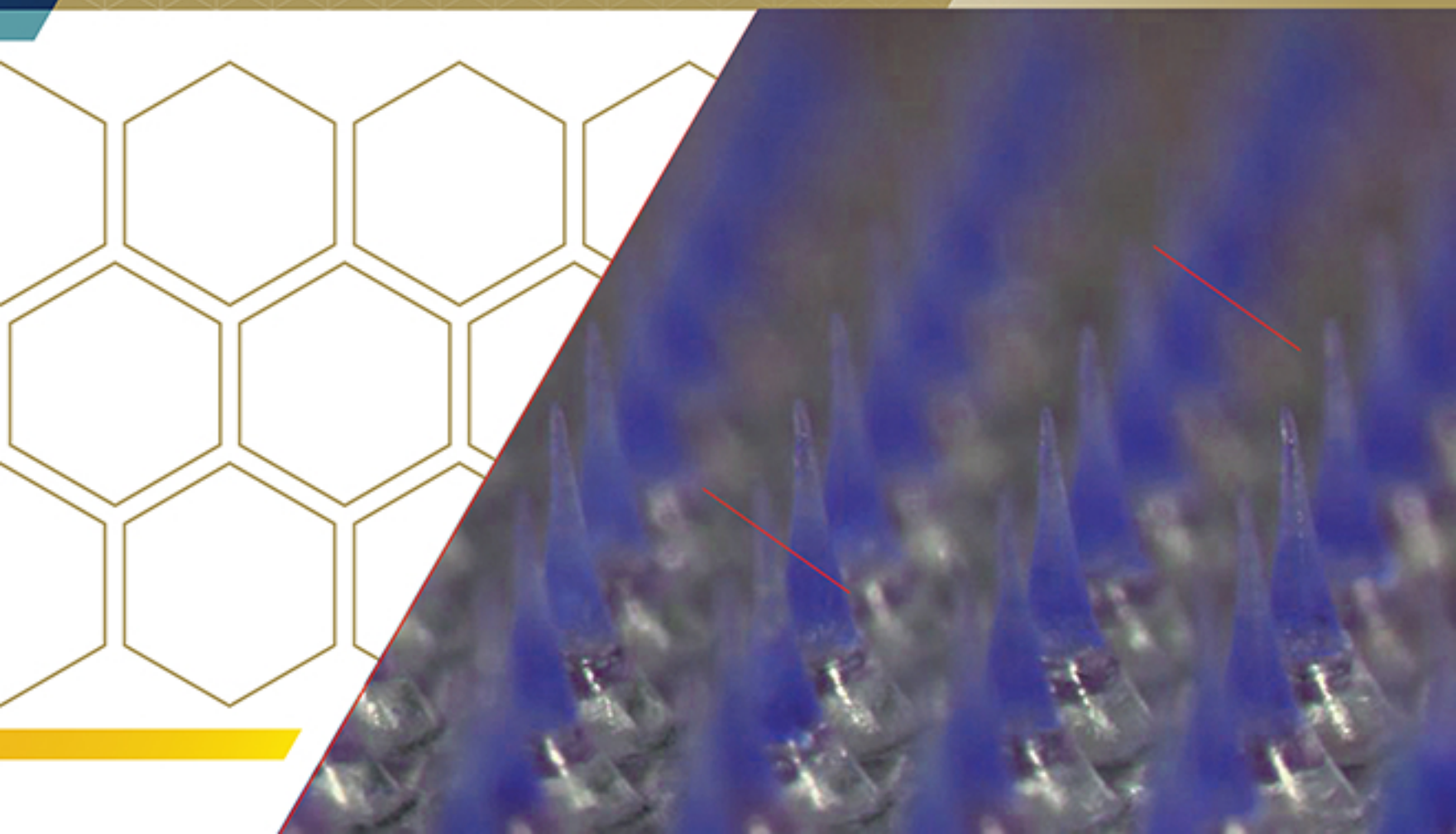
**19**

Research Centers



**16**

Core Facilities





## EVENTS

The Petit Institute set new records for the number of events hosted in 2018



**426**

Total events

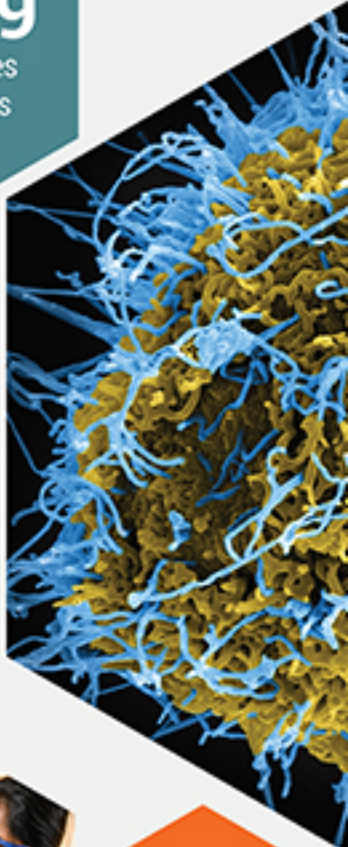
**19,779**

Total attendees to Petit events



**2.5%**

DOD  
includes Army, Air Force, Navy



**\$89.7**  
MILLION



**19%**

INDUSTRY

## RESEARCH FUNDING

**6.6%**

PHILANTHROPY

**1.8%**

OTHER

**16.1%**

SUBCONTRACT

**16.2%**

NSF

ACL

FDA

**34%**

DHHS

CDC

NIH


**3.8%**

NASA

**COMMERCIALIZATION** > **20+**  
Startups



# CREATING THE NEXT®



**Georgia Tech** | **Parker H. Petit Institute for  
Bioengineering and Bioscience**

[petitinstitute.gatech.edu](http://petitinstitute.gatech.edu)