

Coulter BME is a success story in risk-taking and innovation – a visionary partnership between a leading public engineering school and a highly respected private medical school.



**graduate BME program in the nation**

*U.S. News & World Report, 2023 Best Colleges*



**undergraduate BME program in the nation**

*U.S. News & World Report, 2023 Best Colleges*

## OVERVIEW

### Degrees Offered

- **BS** in Biomedical Engineering at Georgia Tech
- **MS** in Biomedical Engineering at Georgia Tech
- **Master's** in Biomedical Innovation & Development at Georgia Tech
- **PhD** at Emory University and Georgia Tech
- **PhD** at Peking University, Emory University, and Georgia Tech
- **MD/PhD** at Georgia Tech and Emory University School of Medicine

### Research Focus Areas

- Biomaterials & Regenerative Technologies
- Biomedical Imaging & Instrumentation
- Biomedical Informatics and Systems Modeling
- Biomedical Robotics
- Cancer Technologies
- Cardiovascular Engineering
- Engineering Education
- Immunoengineering
- Neuroengineering

### NSF Engineering Research Center for Cell Manufacturing Technologies (CMA<sup>T</sup>)

- \$20 million National Science Foundation investment
- Eight-university consortium
- Developing advanced cell therapies for heart disease and cancer

► [cellmanufacturingusa.org](http://cellmanufacturingusa.org)

## STUDENTS

**1,162** undergraduate students

- **59%** of undergrad students are women, and **25%** are underrepresented minorities



Nearly **3/4** of BME undergraduates engage in research

**377** graduate students

- **50%** of graduate students are women, and **27%** are underrepresented minorities

Coulter BME graduates the largest number of...

- **women BME students in the U.S.**
- **BME students from historically underrepresented minority groups in the U.S.**

## FACULTY



**\$41M**

Annual Research Awards (FY22)



**50+**

patents issued to faculty since 2015



**73** primary faculty members

- **25%** of tenure-track faculty are women and **10%** are URM
- Plus **17** professional-track faculty members



**5** current and emeritus faculty are NAE Fellows

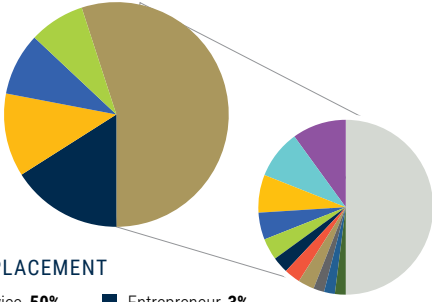


**1** NAE Gordon Prize to 3 BME faculty for Pioneering Engineering Education

## POST-GRAD PATHS

### Bachelor's Recipients

- Industry, 55%
- Grad school, 16%
- Med school, 12%
- Other, 9%
- Undecided, 8%

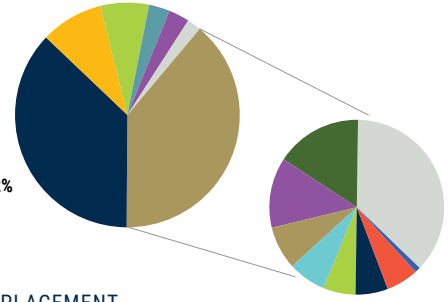


#### INDUSTRY PLACEMENT

- Medical Device, 50%
- Consulting, 10%
- Software/Hardware/Health IT, 9%
- Consumer Products, 7%
- Business, 5%
- Research, 4%
- Entrepreneur, 3%
- Government, 3%
- Pharma, 3%
- Design, 2%
- Energy, 2%
- Other, 2%

### Ph.D. Recipients

- Industry, 39%
- Post doc, 37%
- MD, 9%
- Unknown, 7%
- Government, 3%
- Tenure track, 3%
- Non-tenure research, 2%



#### INDUSTRY PLACEMENT

- Medical Device, 37%
- Other, 16%
- Consulting, 13%
- Pharma, 8%
- Software/Hardware, 7%
- Research, 6%
- Bioinfo/Technology, 6%
- Security/Defense, 6%
- Scientific Writing, 1%

## COMMERCIALIZATION



Accelerating commercialization of early-stage medical technologies with IP held at Emory or Georgia Tech ► [biolocity.org](http://biolocity.org)



**62**  
projects funded



**16.6x**  
ROI leverage in follow-on funding



**22**  
startups since 2015



**2**  
licenses to industry



**5**  
product launches



**1**  
acquisition

## GEORGIA TECH COLLEGE OF ENGINEERING

Largest and most diverse College of Engineering of its kind in the nation

**#1**

...in the nation in engineering degrees awarded overall to women

...in the nation in engineering doctoral degrees awarded to Black students

**#2**

undergraduate engineering program in the nation, among public universities (USNWR)



**\$268.4M**  
research expenditures, FY22

## GEORGIA INSTITUTE OF TECHNOLOGY

- 33 CoE faculty are members of the National Academy of Engineering
- All undergraduate engineering programs are ranked in the Top 5 and graduate engineering programs are ranked in the Top 8 nationally by *U.S. News & World Report*
- Georgia Tech is ranked 4th in Most Innovative Schools by *U.S. News & World Report*
- Georgia Tech's CREATE-X initiative has helped students launch 350+ startup companies valued at more than \$1.9B

## EMORY UNIVERSITY

- 25 members of the National Academy of Medicine
- \$382.7M in research funding for School of Medicine faculty in FY21 (No. 16 nationally in NIH dollars received)
- SOM has 582 medical students and trains 1,322 residents and fellows in 111 accredited programs.
- The new Health Sciences Research Building II opens in Summer 2022 with space for Coulter BME. It's Emory's largest research building to date.

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