

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^T)

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

► 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

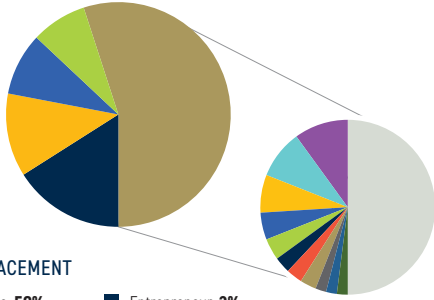


1 NAE Gordon Prize to 3 BME faculty for Pioneering Engineering Education

POST-GRAD PATHS

Bachelor's Recipients

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

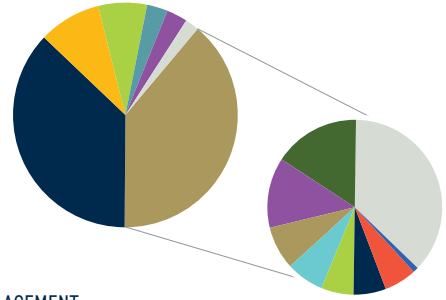


INDUSTRY PLACEMENT

- 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 ► bioclicity.org



62

projects funded



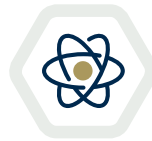
16.6x

ROI leverage in follow-on funding



22

startups since 2015



2

licenses to industry



5

products on the market



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** and **underrepresented minority students**
 ...in the nation in engineering doctoral degrees awarded to **Black students**

- #2** undergraduate engineering program in the nation, among public universities (USNWR)



\$268.4M

new research awards, 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 7 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 300+ startup companies valued at more than \$1.4B

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 this year with space for Coulter BME. It's Emory's largest research building to date.

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