

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, 2022 Best Colleges



undergraduate BME program in the nation

U.S. News & World Report, 2022 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

1,208 undergraduate students

- **62%** of undergrad students are women, and **22%** are underrepresented minorities



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

355 graduate students

- **43%** of graduate students are women, and **26%** 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



\$57M

Annual Research Awards (FY21)



50+

patents issued to faculty since 2015



70 primary faculty members

- **24%** of tenure-track faculty are women and **9%** are URM
- Plus **15** professional-track faculty members



5 current and emeritus faculty are NAE Fellows

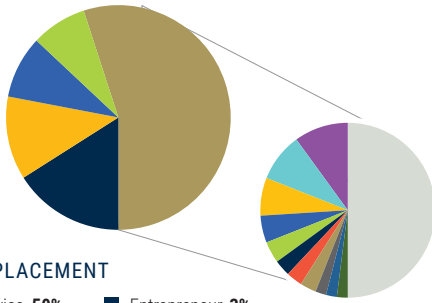


1 NAE Gordon Prize to 3 BME faculty for Pioneering Engineering Education

POST-GRAD PATHS

Bachelor's Recipients

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

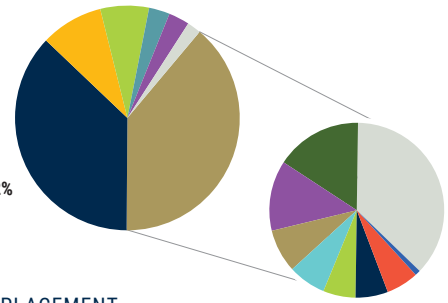


INDUSTRY PLACEMENT

- 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



58

projects funded



10.8x

ROI leverage in follow-on funding



22

startups since 2015



2

licenses to industry



4

product launches

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)



\$280M

research expenditures, FY20

1,377

new research awards, FY20

GEORGIA INSTITUTE OF TECHNOLOGY

- 30 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 230 startup companies valued at more than \$400M

EMORY UNIVERSITY

- 25 members of the National Academy of Medicine
- \$565.6M in research funding for School of Medicine faculty in FY20 (No. 14 nationally in NIH dollars received)
- SOM has 565 medical students and trains 1,349 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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