MASTER OF BIOMEDICAL ENGINEERING

Georgia Tech

Wallace H. Coulter Department of Biomedical Engineering

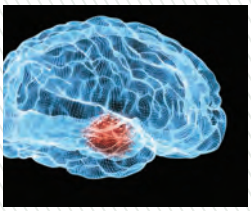
EMORY UNIVERSITY

BIOMEDICAL ENGINEERING

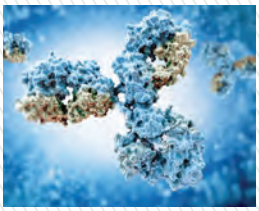
The Wallace H. Coulter Department of Biomedical Engineering is ranked among the best biomedical engineering programs in the nation. Our students are doing cutting-edge research in highly collaborative environments, which is a common element of our team-driven culture. Our research laboratories are dedicated to addressing unmet clinical challenges and have access to superior resources only found in world-class institutions. Students can pursue advanced studies in the areas below.

While the U.A. Whitaker Building is home to the Coulter Department, the Roger A. and Helen B. Krone Engineered Biosystems Building (pictured above) also houses BME faculty and laboratories.

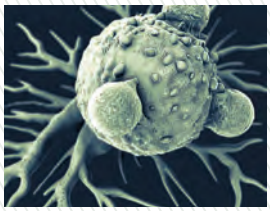
Coulter Department Research Areas



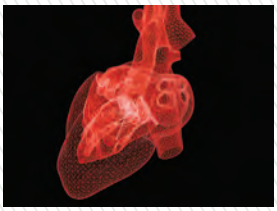
Neuroengineering



Cancer Technologies

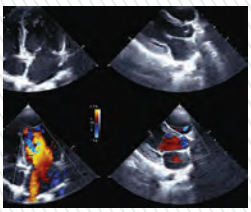


Immunoengineering



Cardiovascular Engineering

Engineering Education



Biomedical Imaging & Instrumentation

Biomedical Informatics and Systems Modeling

Biomedical Robotics

Biomaterials and Regenerative Technologies

» The biomedical engineering master's program (MS BMED) is completed in three (non-thesis) to six (thesis) sequential semesters. Candidates typically take two to four courses each semester.

- Thesis option is oriented towards those contemplating pursuing a Ph.D. in the future.
- Non-thesis option is oriented towards those seeking deeper content knowledge.
- Course credits may transfer to the Ph.D. program (application required).

Course of Study
Thesis Option
(21 hours coursework **+ 9 hours thesis**)

Courses	Credit Hours
Bioscience	≥ 3
Engineering	≥ 3
Data science	≥ 3
Approved electives	6
Coursework total = **21**	

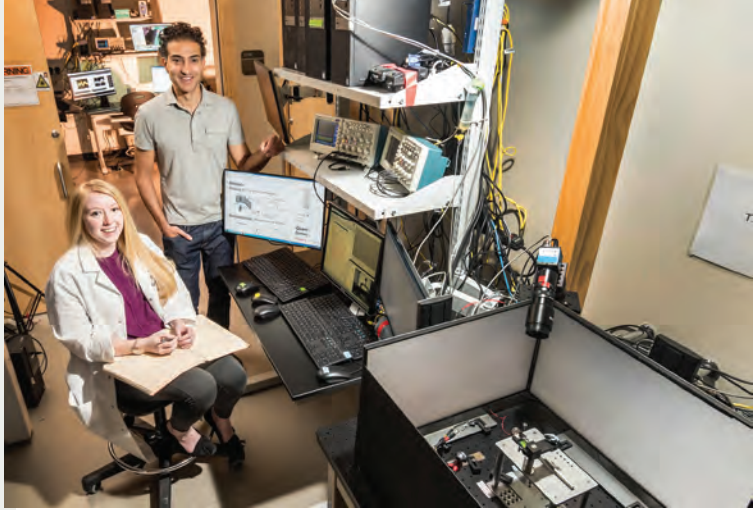
Course of Study
Non-thesis Option
(30 hours coursework)

Courses	Credit Hours
Bioscience	≥ 3
Engineering	≥ 3
Data science	≥ 3
Approved electives	9
Coursework total = **30**	

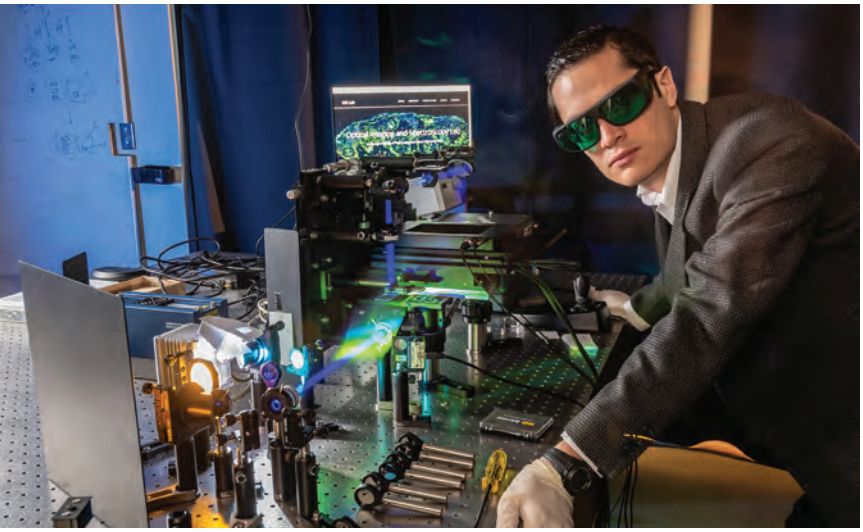
Master of Biomedical Engineering at a Glance

Career Paths:

- Entry into the biomedical industry, or biomedical-related research and development
- Advancement towards a Ph.D., M.D., or M.D./Ph.D.
- Target/refocus engineering talent towards the biomedical engineering field



Bilal Haider, assistant professor, working with a graduate student. Haider's research is advancing neuroscience with new discoveries.



Francisco Robles, assistant professor, examines his latest laser configuration. Robles' research is improving imaging with advanced technologies.

Candidates for this master's program include:

- Graduates who have earned a bachelor's in engineering, science, or math
- Working career professionals with an engineering and/or science background

Atlanta Metropolitan Area Biotech Companies

4P Therapeutics
Aalto Scientific
Abeome
Acella Pharmaceuticals
Alimera Sciences
AngioDynamics
Antibodies Online
Arbor Pharmaceuticals
Aruna Biomedical
Athens Research and Technology
Atlantic Pharmaceuticals
AventaCell BioMedical
Avion Pharmaceuticals
Biome360
C.R. Bard
Cambium Medical Technologies
Carmel Biosciences
Carticept Medical
Celtaxsys
Clearside Biomedical
CONMED
CryoLife
Dune Medical Devices
Facet Medical Technologies
Genesis Biosciences
GeoVax
Halyard Health
HealPros
Health Discovery Corporation
Inhibikase Therapeutics
IQVIA
Lectenz Bio
Merial
Mikart
MiMedx
NeurOp
NeuroTrials Research
Noramco
Novartis
Osmotica Pharmaceutical
Pharma Tech Industries
ProPharma Group
QUE Oncology
Recro Gainesville
Respironics
Sanuwave
Sebacia
SJ Pharma
SpherIngenics
Stryker
Synexus
Theragenics
Vero Biotech
ViaCyte
WuXi Apptec

Our program aims:

- To prepare students for successful careers, whatever their next step;
- To educate students in methods of advanced analysis and appropriate problem solving;
- To provide a depth of knowledge in professionally relevant biomedical engineering fields;
- To provide a breadth of knowledge that fosters interdisciplinary approaches to problem solving;
- To develop the skills pertinent to the research process, including working collaboratively and communicating effectively;
- To prepare for transition to a Ph.D. program if choosing a thesis option

All admission materials must be submitted via the Georgia Tech graduate admission system.

February 1 is the application deadline for entry in the fall semester.

September 1 is the application deadline for entry in the spring semester.

Applicants should have the following prerequisites:

- B.S. in engineering, science, or math
- One year (two semesters or three quarters) of calculus-based physics
- Organic chemistry (one semester suggested)
- Calculus through and including differential equations (4 semesters total)

» Apply here: www.grad.gatech.edu »

Once submitted, applications are reviewed by the department's faculty admissions committee. Decisions are made on a rolling basis.

CONTACT US TODAY TO FIND OUT MORE ABOUT THIS MASTER'S PROGRAM.

Recruiting
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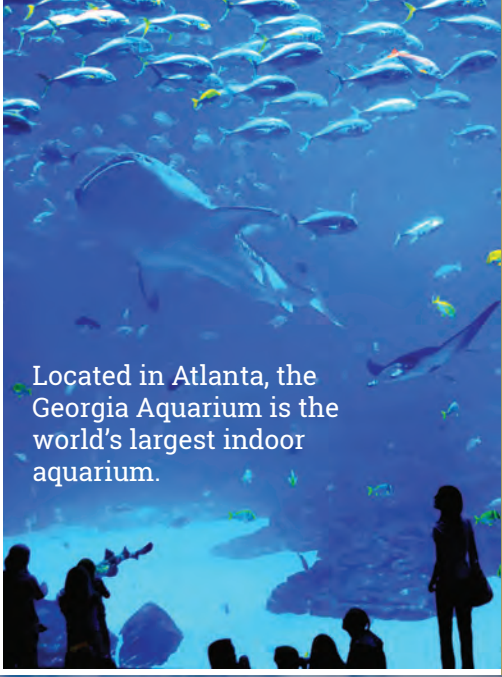

Located in Atlanta, the Georgia Aquarium is the world's largest indoor aquarium.

ATLANTA: A Thriving Metropolis

Atlanta is an integral and exciting aspect of the Georgia Tech and Emory educational experience. Atlanta is one of the Southeast's most vibrant, progressive, and dynamic cities. When students are not studying, they explore Atlanta's rich and diverse culture through museums, music venues, professional sports teams, shopping districts, and the best cuisine in the south. Atlanta's warm climate allows for year-round outdoor activities. Mountains, lakes, campsites, and hiking trails are all within an hour's drive — and access to Hartsfield-Jackson Atlanta International Airport makes the whole world just a flight away.

Located in one of America's most vibrant cities, Georgia Tech's College of Engineering combines the resources of a major university with the benefits of an urban campus, giving students the tools they need to chase their ambitions. With dozens of degree programs across eight schools, the College has built a strong reputation in the United States and abroad, and graduates leave with skills, knowledge, and global savvy for a world increasingly dependent on engineering.

Georgia Tech's engineering graduate programs are consistently ranked in the top ten in the nation in their respective specialties according to U.S. News & World Report graduate rankings of national universities granting doctoral degrees.

CREATING THE NEXT®

Georgia Tech | Wallace H. Coulter Department of Biomedical Engineering | EMORY UNIVERSITY

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The Wallace H. Coulter Department of Biomedical Engineering at Georgia Tech and Emory University affirms our institutions' efforts to increase equity, diversity, and inclusion on our campuses. We strive to create a welcoming, diverse and inclusive environment that values, celebrates, and respects the individual and communal differences that make us human, and aspire to cultivate global leaders in engineering and medicine who are champions of inclusive excellence.

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