Collaborative academic instruction in biomedical technology and commercialization from top-ranked institutions in engineering and medicine;
Practical, hands-on clinical development experience in Atlanta’s thriving biomedical industry.

Graduates of this intensive one-year professional master’s program will be exceptionally well prepared to pursue and advance their careers in the dynamic field of biomedical engineering devices and technology. Upon successful completion of this program, graduates will receive a “Master of Biomedical Innovation and Development” degree from the Georgia Institute of Technology.

This new Georgia Tech BioID program specifically addresses the crucial “bench-to-bedside” progression that connects biomedical research with unmet clinical needs in order to develop innovative solutions for new techniques and products that will improve patient care. BioID graduate students will study with experts in clinical practice, engineering design and development, best practice manufacturing, regulatory pathways, business planning and commercialization. Guest lecturers from the diverse healthcare industry will contribute perspectives on key current topics affecting medical device development, trends in technology, intellectual property, patient care and healthcare policy.
The BioID professional master's program is a one-of-a-kind academic and clinical experience built upon the extraordinary resources and reputation of the Wallace H. Coulter Department of Biomedical Engineering; a joint department of the Georgia Tech College of Engineering (www.coe.gatech.edu) and the Emory University School of Medicine (http://med.emory.edu). In 2012, U.S. News & World Report ranked both the undergraduate and the Ph.D. programs offered by the Coulter Department second in the USA.

Located in Atlanta, both Georgia Tech and Emory University consistently rank among the top tier of American universities in admission standards, student academic achievement, faculty research, grants and awards, diversity, career placement statistics, alumni accomplishments, and much more.

The Translational Research Institute for Biomedical Engineering and Science (TRIBES, gatech.edu) at Georgia Tech connects government and industry professionals with student education. TRIBES will assist in facilitating student master's projects with medical faculty and clinical researchers at the Atlanta Clinical and Translational Science Institute (ACTSI.org), Children's Healthcare of Atlanta (CHOA.org), Saint Joseph's Translational Research Institute (SJTRI.org), the Global Center for Medical Innovation (device.net) and other healthcare entities. TRIBES' industry affiliations will also provide professional interaction and support for master's projects and potential future employment for BioID graduates.

Why a BioID Professional Degree?

The National Academy of Engineering report, Engineer of 2020: Visions of Engineering in the New Century, included the following desired aspirations and attributes for engineers: 1) expanded vision of design and emphasis on the creative process for more effective leadership in the development and application of next-generation technologies, 2) creativity, innovation, cross disciplinary fertilization... with science, social science, business and management, 3) recognized the M.S. as the engineering "professional" degree, 4) teach students to be lifelong learners, and 5) instill high ethical standards, leadership and professionalism. The mission of the BioID program is to provide master's-level graduates with a broad knowledge of factors influencing innovation, development and commercialization of medical products to enhance the advancement of medical care, improve the sustainability of resources and contribute to economic growth.

The BioID program provides a future-oriented platform of specialized expertise in the rapidly evolving field of patient care from emergency medicine, diagnosis, therapeutics, surgery, rehabilitation and home healthcare. With an emphasis on cross-disciplinary coursework and relevant clinical project experience, this program fills a distinct market need for innovative, broadly educated professionals at the intersection of biomedical device engineering, regulatory requirements, healthcare delivery, business development and healthcare policy.

An Industry Perspective

The complexity of modern medical devices requires innovators from multiple disciplines to translate clinical needs into safe and effective commercial products for healthcare. Industry supporters cite the many advantages of this program, ranging from device design experience to understanding regulatory considerations to learning experiences in multidisciplinary medical environments. Ideal candidates for the BioID master's program include early-career professionals in medical device or biotech related specialties, engineers seeking medical device specialization, high performing graduates from engineering disciplines and related fields of study. Graduates can take full advantage of the biomedical engineering department's Career Resource office and Georgia Tech's Career Services for lifelong networking and career planning.

Schedule of Classes

**FALL | FIRST SEMESTER**
- Medical Design Process 3 hours
- Clinical Experience 3 hours
- Medical Marketing and Specialties 3 hours
- Financial Planning for Projects 3 hours

**TOTAL HOURS 12**

**SPRING | SECOND SEMESTER**
- Clinical Project I 3 hours
- Product Planning and Management 3 hours
- Elective 3 hours
- Elective 3 hours

**TOTAL HOURS 12**

**SUMMER | THIRD SEMESTER**
- Clinical Project II 6 hours
- Regulatory (FDA and ISO) 3 hours
- Professional Communications 3 hours

**TOTAL HOURS 12**

WITH THE NEW BIOID GRADUATE PROGRAM, THE WALLACE H. COULTER DEPARTMENT OF BIOMEDICAL ENGINEERING EXPANDS ITS EDUCATIONAL OFFERING WITH A PROFESSIONAL-ORIENTED MASTER'S DEGREE.

CONNECTING ENGINEERING DEVELOPMENT EXPERTISE WITH HEALTHCARE PROFESSIONALS TO ADDRESS UNMET NEEDS FOR NEW AND IMPROVED PRODUCTS, AND INDUSTRY REQUIREMENTS FOR THE COMMERCIALIZATION OF BIOMEDICAL PRODUCTS.