RECRUIT BETTER. HIRE BETTER. ENGINEER BETTER.

RECRUIT BETTER.

At the School of Engineering and Applied Science (SEAS), we strive to provide students with valuable resources and access to academic, corporate, non-profit, government, and professional development opportunities. By connecting students, faculty, staff, alumni, and employers, we create a talent pipeline that highlights GW graduates as leading contributors to the global community.

HIRE BETTER.

Graduate students in biomedical engineering at SEAS practice collaborative and innovative research in developing medical instrumentation and imaging technologies. By gaining hands-on experience in labs across campus in the School of Medicine & Health Sciences, as well as the Milken Institute School of Public Health, students develop the skills necessary to lead the rapidly evolving fields of medicine, public health, and technology.

ENGINEER BETTER.

At SEAS, our students pride themselves on developing cutting-edge research and innovation both in and out of the classroom. Through its institutes, centers, and special programs, SEAS extends academic investigation throughout the greater GW campus, professional industry, and society as a whole. By fostering an environment in which students apply technology and research findings to all areas of instruction, students are well prepared for rewarding and productive careers as engineers, applied scientists, and computer scientists.

BIOMEDICAL ENGINEERING GRADUATE STUDENT PROFILE

Number of Enrolled Students: 31

AREAS OF FOCUS

• Medical Imaging
• Medical Instrumentation

SKILLS ACQUIRED BY BIOMEDICAL ENGINEERING GRADUATE STUDENTS

• Training in circuits, signal processing, biomaterials, and biophysics
• Training in clinical medicine technologies
• Teamwork and project management
• Expertise in acquiring and analyzing physiological signals (EEG, ECG, EMG, EOG)
• Programming experience in C, Matlab, and LabVIEW
• Understanding of physiology and medical terminology

COMMON INDUSTRIES STUDENTS SEEK JOBS IN:

• Medical Device Patents
• Medical Device Regulation
• Medical Equipment and Supplies Manufacturing
• Medical Imaging
• Medical Instrumentation
• Pharmaceutical and Medicine Manufacturing
• Scientific Research and Development Services
RESEARCH FACILITIES, PROJECTS, and PARTNERSHIPS

At GW, biomedical engineering students actively collaborate with peers and faculty on research, which is conducted across several facilities on and off campus.

RESEARCH AREAS

- Bioinformatics and Computational Biology
- Biomaterials
- Cancer Therapy
- Diagnostic and Surgical Computer Support
- Drug Delivery
- Fluidics and Micro/Nanotechnology
- Health Care Delivery Systems
- Imaging and Image/Signal Processing/Analysis
- Physiological Flows, Electrophysiology, and Tissue Mechanics
- Robotics/Biosensors/Actuators
- Simulation and Modeling
- Tissue Engineering, Wound Healing, and Regenerative Medicine

LABORATORIES

- Cardiac Ischemia Research Laboratory
- Laboratory for Medical Imaging and Applications of MEMS in Medicine
- Medical Image Analysis Laboratory
- Optofluidics Laboratory
- Therapeutic Ultrasound Laboratory

Department Annual Research Expenditure: $2.1 million (2014)

FACULTY

SEAS students benefit from instruction, interaction, and collaboration with faculty who are on the cutting-edge of research and are leaders in their fields. More than two-thirds of our recently hired SEAS faculty members graduated from top 20 engineering and computer science programs in the U.S., or top programs across the world.

"With a new Department of Biomedical Engineering forming at the same time that the new Science and Engineering Hall is opening, it is an extremely exciting time to study biomedical engineering at GW. With the engineering school being across the street from the GW medical school and the hospital, opportunities to work on real-world medical solutions is commonplace for our students and faculty."

- Jason Zara, Associate Professor, Biomedical Engineering

CONTACT Information

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