

INSTITUTE OF BIOMATERIALS & BIOMEDICAL ENGINEERING

The Institute of Biomaterials & Biomedical Engineering (IBBME) at the University of Toronto is a multidisciplinary research unit where engineering, medicine and dentistry investigators collaborate to develop innovative solutions for global challenges in human health.

Located in the heart of Canada's largest hospital and health care research network, our renowned graduate degree programs in **biomedical** and **clinical engineering** offer hands-on training that is combined with real-world experience and exposure.

OUR 300 STUDENTS LEARN FROM MORE THAN 100 FACULTY MEMBERS ON CAMPUS AND AT 10 PARTNER HOSPITALS IN TORONTO

- » Holland Bloorview Kids Rehabilitation Hospital
- » Hospital for Sick Children
- » Mount Sinai Hospital
- » Princess Margaret Cancer Centre
- » St. Michael's Hospital
- » Sunnybrook Health Sciences Centre
- » Toronto General Hospital
- » Toronto Rehabilitation Institute
- » Toronto Western Hospital
- » Women's College Hospital

GRADUATE DEGREES

- » Master of Applied Science (MASc)
- » Master of Engineering (MEng)
- » Master of Health Science (MHSc)
- » Doctor of Philosophy (PhD)

RESEARCH THEMES

- » Biomaterials, Tissue Engineering and Regenerative Medicine
- » Engineering in a Clinical Setting
- » Nanotechnology, Molecular Imaging and Systems Biology
- » Neural, Sensory Systems and Rehabilitation Engineering



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UNIVERSITY OF TORONTO



IBBME AT A GLANCE

- » IBBME is a key part of Medicine by Design (Mbd), U of T's \$114-million regenerative medicine initiative. It brings together 100+ investigators from U of T and its partner hospitals to enhance fundamental discoveries and develop new therapies to treat degenerative diseases.
- » Four IBBME professors are at the heart of cardiovascular disease research in Canada. Led by Professor Craig Simmons, the Translational Biology & Engineering Program serves as U of T's component of the Ted Rogers Centre for Heart Research, which aims to address heart failure across the lifespan.
- » The MEng and MHSc programs include internships. Students work at hospitals, health-care technology companies and partner organizations in Canada and around the world.
- » The Wildcat Fellows Program provides outstanding PhD students with full funding for their first year to rotate through several supervisors' labs.

FOR FURTHER INFORMATION, CONTACT:

MASc, PhD & Collaborative Specialization
416-978-4841
admissions.ibbme@utoronto.ca

MEng & MHSc
416-978-6102
meng.ibbme@utoronto.ca
mhsc.ibbme@utoronto.ca

www.ibbme.utoronto.ca
164 College Street, Room 407
Toronto, Ontario, M5S 3G9 Canada

PROFESSIONAL DEGREES

The **Master of Engineering (MEng) in Biomedical Engineering** program focuses on the design and commercialization of biomedical devices. Students will have the opportunity to take on applied design challenges and meet the growing demands of this industry through course work and a four-month internship.

The **Master of Health Science (MHSc) in Clinical Engineering** program educates students on how to apply and implement medical technologies to optimize modern health-care delivery. The degree requirements include a blend of academic courses, a research thesis and a series of internships to give students real-world exposure and a competitive edge in the field. MHSc students may transfer to the PhD concentration in clinical engineering during their first year of study.

Admission Requirements: A four-year undergraduate degree in engineering from an accredited institution with a minimum grade of A- in the final two years of study. MEng applicants must also have at least a minor in biomedical engineering or equivalent.

RESEARCH DEGREES

This stream immerses students in the application of biomedical sciences and engineering principles to advance health care. The MAsc and PhD programs are research-intensive and require the confirmation of a faculty supervisor for admission. MAsc candidates are guaranteed funding for two years while PhD students receive funding for four years plus tuition and fees. Exceptional students can be directly admitted into the PhD concentration in biomedical engineering.

Admission Requirements: A four-year undergraduate degree in engineering, medicine, dentistry, physical or biological sciences from an accredited institution with a minimum grade of A- in the final two years of study.

COLLABORATIVE SPECIALIZATION IN BIOMEDICAL ENGINEERING

This specialization allows students to earn a certificate in biomedical engineering in conjunction with a research-stream graduate degree program offered in 14 other academic units at U of T. This option provides students with the opportunity to cross traditional discipline boundaries and gain in-depth exposure to biomedical engineering.

Collaborating graduate units at U of T include departments in the Faculties of Applied Science & Engineering, Arts & Science, Dentistry, Medicine and Pharmacy. Please visit www.ibbme.utoronto.ca for a full listing.

English Proficiency Requirements: There is a minimum English proficiency requirement for all applicants educated outside Canada whose primary language is not English. It is a requirement of admission and should be met before applying for admission. Please visit www.uoft.me/englishfacility to determine whether you are required to take a test and for a list of accepted tests and their minimum required scores.

MEng & MHSc

MEng length of study: one year (full time)

MEng Domestic Tuition (2017–2018, full-time): \$15,691

MEng International Tuition (2017–2018, full-time): \$52,912

Deadline: Apply by mid-March for a September start.

MHSc length of study: two years (full time)

MHSc Domestic Tuition (2017–2018, full-time): \$14,650

MHSc International Tuition (2017–2018, full-time): \$47,012

Deadline: For a September start, international students should apply by the beginning of December and domestic students should apply by mid-February.

Application due dates may vary from year to year; visit www.ibbme.utoronto.ca for exact deadlines.

MAsc & PhD

MAsc length of study: two years (full time)

PhD length of study: four years (full time)

Domestic Tuition (2017-2018, full-time): \$8,481

International Tuition (2017-2018, full-time): \$23,693

Deadline: For a September start, international students should apply by the beginning of December and domestic students should apply by mid-February.

Application due dates may vary from year to year; visit www.ibbme.utoronto.ca for exact deadlines.

MAsc, MSc & PhD

Admission Requirements: Application requirements vary for this program and are set by the collaborating academic unit. Students interested in this option must apply at the time of their initial application for graduate studies at the University of Toronto. Please visit www.ibbme.utoronto.ca for more information.