Why GRADUATE STUDIES in TRANSLATIONAL MEDICINE?

The new and innovative Master of Science (MSc) in Translational Medicine is a unique research-based graduate program. The program provides students with a fresh perspective, offering a curriculum interweaving graduate level research with authentic clinical experiences in a multidisciplinary environment across departments at Queen's University.

Combining the fields of medicine and research, this program links graduate level research skills with a variety of clinical experiences including patient interactions, clinical observerships and medical rounds to enhance professional thinking and action. This innovative curriculum will offer important foundation work for future careers in the biomedical field, and will provide critical skills for pursuing careers that include clinician scientists, biomedical researchers, leaders in industry and public health and/or health policy.

What is TRANSLATIONAL MEDICINE?

Translational Medicine is driven by our patients and their diseases. Guided by this primary focus, translational research spans across the spectrum from molecular and cell biology to preclinical models to patient studies and back again (see Figure). Our programs aim to train the next generation of researchers to be effective translators of biomedical discovery. Our graduates will operate at the intersection of clinical and related sciences and will have the expertise to generate and lead discovery through an integrated process, increasing the efficiency of translating science knowledge into health improvement.

Program STRUCTURE

The MSc in Translational Medicine is a 2-year research-based program, which requires the completion of 12-credit courses (3 core courses, 3-credit electives) and a thesis.

Mini-Master's: Students registered in the MSc in Translational Medicine with first-class standing, and who show exceptional promise in their research may be considered for promotion to the PhD in Translational Medicine, without completion of the MSc.

Core COURSES

- TMED 800* Translational Medicine
- TMED 801 Profession of Medicine
- TMED 802 Research Success Skills

Elective COURSES (Pick 3 credits)

- TMED 811 Next Generation Sequencing (1 credit)
- BMED 862 Cellular Techniques (1 credit)
- BMED 865 Imaging Analysis (1 credit)
- BMED 869 Reproduction (1 credit)
- BMED 809* Principles and Drug Discovery and Development
- BMED 811* Advanced Molecular Biology
- NSCI 844* Controversies in Neuroscience
- EPID 803* Public Health System in Canada
- EPID 810* Controlled Clinical Trials
- PATH 822* Experimental Cancer Therapeutics
- PATH 826* The Molecular Basis of Disease

* = Courses that are one term in length. Courses are 3 credits unless otherwise stated.

Program HIGHLIGHTS

- Build on your academic education or enhance your career with advanced knowledge and skills
- Learn about translational medicine from an interdisciplinary perspective with authentic clinical experiences
- Experience team-based learning with other students
- Network with students, alumni, and leaders in this emerging field
- Complete a supervised project on a topic of your choice
Visit careers.queensu.ca/gradmaps for the online version with links!
Application FAQs

What do I need to know to APPLY?

ACADEMIC REQUIREMENTS
- An undergraduate honours degree from a recognized university with a minimum of a B+ average in the last two years. At Queen's, a B+ is equivalent to a percentage conversion of 77-79.9% and a Grade Point Average of 3.3 (out of 4.3).

ADDITIONAL REQUIREMENTS
- Applications for admission are completed and submitted on the School of Graduate Studies website, including an online application form and specific instructions regarding how to submit the following documents:
  - A Statement of Interest about how applicants’ background experiences and career aspirations make them ideally suited for the program (up to 4000 characters in the online application);
  - Transcripts for all postsecondary education;
  - Two references from individuals familiar with the applicant’s academic performance
- Applicants are required to submit an electronic resumé/curriculum vitae to tmed@queensu.ca.

LANGUAGE REQUIREMENTS
- In cases where English is not the first language, nor was the language of instruction in undergraduate studies, applicants must demonstrate English language proficiency. Those applicants will need to provide proof of English language proficiency through one of the following:
  - International English Language Testing System (Academic module) with a minimum score of 7 in each component, or
  - TOEFL iBT with a passing score of 93 including a minimum score of 24 on the speaking section.

Before you start your application, please review the Graduate studies application process.

What about FUNDING?

We offer our master’s students a minimum funding of $21,000 per year for two years.

Apply for external funding from OGS, CIHR/NSERC and other sources. Queen’s will automatically issue a $5,000 top-up to Master’s winners of federal government tri-council awards. See the School of Graduate Studies’ information on awards and scholarships for more.