Introduction to Graduate Studies

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The Gee lab

Cytokine responses Innate immunity Anti-virus & antibacterial immune responses

What people think I do...... What I really do.....



What does graduate studies entail?

- Applying knowledge from undergrad to research
- Developing skills useful for a wide range of future endeavors
- Reading scientific literature
- Teaching
- Writing skills (abstracts; papers; etc)
- Presentation skills (posters; seminars)





What does graduate studies entail?

- Some programs are course based, most require a substantial research (practicum) component
- MSc ~16-24 months (program-dependent)
- PhD ~4-5 years
- Stipends (programdependent)
- Conference attendance



ASM Microbe provides a one-of-a-kind forum to explore everything from basic microbiology to translation and application. Source: American Society for Microbiology

> BOCKTY FOR IMMUNOPHISARY OF CANCE 38th Annual Meeting & Pre-Conference Programs Nov. 1-Nov. 5, 2023 | San Diego, CA or Virtual | #STIC23 BOWARCT HE SCREEC, DISCOURS RAD EQUART HE WORLD ON CANCES IMMUNOPHIESARY. INVESTIGATION



Glycobiology 2023: Transformative Advances in the Biological Functions of Glycans

November 5–8, 2023 Hilton Waikoloa Village Resort, on the big island of Hawaii

specialist policy clinical *coordinator***■** allergist physician graphicsgovernmen bioanalyis anal ma education laboratory academ

What are my career options after grad school?



How do I apply?

- complete the online application located at: <u>https://www.queensu.ca/grad-postdoc/</u>
 - helpful information on registration, fees, awards, cost of living and information for international students
- 2 reference letters required
 - Choose referees who know you well
 - your project supervisor or faculty with whom you have interacted
 - someone who evaluated your presentation/writing/research skills
- Identify and contact a potential supervisor (recommended, but not always a requirement)
- Deadlines for applications are program dependent (some are firm, some are flexible)
- DBMS deadline is March 1

DBMS programs

MSc (Anatomical Sciences)

- 16 months long
- Program structured around three pillars of competency (content, pedagogy, inquiry) designed to educate students interested in the art of teaching and designing curricula in the anatomical sciences.

Thesis-based MSc & PhD research degree

• students choose one of the following Fields of Specialization, which represent the current research strengths of the Department:

Biochemistry and Cell Biology

Experimental Medicine

Microbes, Immunity, and Inflammation

Reproduction and Developmental Sciences

Therapeutics, Drug Development, and Human Toxicology



DBMS MSc Course requirements

Anatomical Sciences:

• 30 credit units

Thesis Based Degrees:

MSc requires a minimum of 12 credit units at the graduate level:

BMED 860 (3 credit units,
Fundamentals of Academic
Research)
BMED 897 (3 credit units, DBMS
Seminar Program)
6 additional units

The DBMS graduate student handbook



Biomedical and Molecular Sciences

Administration v Undergraduate v Graduate v Faculty Research v Seminar Series Job Opportunities Contact Us

Welcome to the Department of Biomedical and Molecular Sciences

Our department is a distinguished academic centre engaging a wide range of research endeavours including anatomical sciences, bacteriology, biochemistry, cancer biology, cardiovascular sciences, cell biology, developmental biology, immunology, molecular biology, neuroscience, pharmacology, physiology, reproductive biology, toxicology and virology.

LEARN MORE

How do I choose a supervisor?



Identify someone whose research interests you

Visit faculty websites Read papers and look up corresponding authors



Speak to others who work with (or have worked with) your potential supervisor



Email and ask if they are accepting new students

Attach your CV

Attach a copy of your transcript

Explain why you would like to work under their supervision

Funding & Awards

- Canadian Institutes for Health Research (CIHR), NSERC
 - these are "Tri-Council" awards
- Ontario Graduate Student Scholarship (OGS)
- Queen's/DBMS Internal Awards

More information:

<u>https://www.queensu.ca/grad-postdoc/grad-studies/funding/awards-bursaries</u>







Funding & Awards

Stipends:

- Vary by program and department
- **<u>DBMS</u>** minimum guaranteed stipends:
 - MSc: \$25,500
 - International students \$30,500
 - PhD: \$28,500









Get your questions answered in live 1-on-1s with reps from some of our amazing graduate programs!

Participating

programs

Biomedical & Molecular Sciences
 Pathology & Molecular Medicine (Collaborative Cancer program)
 Translational Medicine
 Public Health
 Neuroscience Studies
 Nursing
 Health Quality Program
 Occupational & Physiotherapy Program
 Rehabilitation Science Program
 Rehab - Aging & Health
 The Doctor of Science in Rehabilitation & Health Leadership
 Biomedical & Informatics Program

Thanks for listening!

Questions? kgee@queensu.ca



Programs and Graduate Coordinators within the School of Medicine

Biomedical and Molecular Sciences – https://dbms.queensu.ca/graduate

Neurosciences – <u>https://neuroscience.queensu.ca/academic/graduate-program</u>

- program offers a full spectrum of neuroscience research, from cellular/molecular to clinical studies

Public Health Sciences https://phs.queensu.ca/

- M.Sc. program offers the chance to specialize in one of three streams of study:
 - Epidemiology and Population Health
 - Health Services and Policy Research
 - Clinical Epidemiology
- Ph.D. program trains epidemiologists as independent investigators and leaders in health or health-related agencies where research is an important function

Programs and Graduate Coordinators within the School of Medicine

Translational Medicine – <u>https://deptmed.queensu.ca/academics/translational-</u> medicine-graduate-programs

• combining the fields of medicine and research linking graduate level research skills with clinical experiences

Pathology and Molecular Medicine -

https://pathology.queensu.ca/academics/graduate-studies

• research foci in cancer, hemostasis and vascular biology

Cancer Research – <u>https://www.queensu.ca/cancergradprogram/</u>

- jointly offered by the Departments of Public Health Sciences, Pathology & Molecular Medicine, Psychology and Biomedical & Molecular Sciences
- encourages interactions of researchers and students with common interests in cancer, regardless of departmental home

MD/PhD - https://meds.queensu.ca/academics/md_phd