Why GRADUATE STUDIES in CHEMISTRY?

A degree from Queen's Department of Chemistry is highly regarded and an important consideration in today's competitive science and technology job market. Our new $56 million state of the art building is home to the Nuclear Magnetic Resonance facility and its eight high-field instruments, an on-site Mass Spec facility with four mass spectrometers, an X-ray diffractometer, a CFI-funded facility for materials characterization and more unique equipment in faculty labs.

Why QUEEN'S?

Queen's University and the Department of Chemistry enjoy international reputations. With 25 award-winning faculty, and over 130 graduate students, post-doctoral fellows and research associates performing cutting-edge research in a multitude of areas, you will find this an exciting place to do research. Research is performed in the areas of analytical, inorganic, organic, physical, polymer, and theoretical chemistry. Research in these areas ranges from the most fundamental to very applied.

“My years at Queen’s have left me with nothing but good memories. It was a great experience, a great city and a great education. It was a solid foundation to launch a career.”

– Will N. Rogers, PhD

Program STRUCTURE

PhD (4 years): course work, research thesis, comprehensive oral exam, and research seminar.

RESEARCH Areas

- Analytical/Environmental
- Biological
- Inorganic/Organometallic
- Materials/Polymer
- Organic
- Physical
- Theoretical/Computational

We encourage you to identify an area of research interest and contact a potential supervisor before applying.

Visit the Chemistry Department website to read faculty profiles and learn more about faculty members’ research areas. When you find a faculty member with similar research interests to yours, contact him/her and tell them about your interest in graduate work and related experience. This is also an opportunity for you to find out if the faculty member is accepting new graduate students to supervise.
**DOCTOR OF PHILOSOPHY (PhD)**

### WHAT WILL I LEARN?
A graduate degree in Chemistry can equip you with valuable and versatile skills, such as:
- Knowledge and technical skills
- Effective communication skills
- Leadership
- Problem-solving
- Independence and self-reliance
- Collaboration and teamwork
- Self-motivation
- Commitment to society

### WHERE CAN I GO?
A PhD in Chemistry can take your career in many directions. In Canada, less than 40% of all PhDs will work in post-secondary education - the majority will work in industry, government, or non-profits.

<table>
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<td><strong>ACHIEVE YOUR ACADEMIC GOALS</strong></td>
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<td>- Key priorities include forming your committee and coursework.</td>
<td>- Attend conferences in your field.</td>
<td>- Serve on departmental, faculty or university committees.</td>
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| - Meet early with your supervisor to set expectations and discuss roles, responsibilities, program requirements, resources, research/occupational goals, timelines, and any required accommodation plans. | - Attend present at a graduate conference such as the Canadian Chemistry Conference and Exhibition. | - Consider volunteering with different community organizations such as Science Rendezvous. | - Knowledge and technical skills
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| - Look to Student Academic Success Services for a variety of supports. | - Continue to meet regularly with your supervisor, review research progress, and write your dissertation. | - Participate in hiring committees and attend job talks. | - WHERE CAN I GO? |
| - Complete WHVS safety training. | - Attend or present at a graduate conference such as the Canadian Chemistry Conference and Exhibition. | - Complete the Annual Research Progress Report (1/2). | - A PhD in Chemistry can take your career in many directions. In Canada, less than 40% of all PhDs will work in post-secondary education - the majority will work in industry, government, or non-profits. |

### BUILD WITH SKILLS AND EXPERIENCE

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| - Apply to NSERC, OGS, and other funding. | - Serve on departmental, faculty or university committees. | - WHERE CAN I GO? |
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### ENGAGE WITH YOUR COMMUNITY

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### LAUNCH YOUR CAREER

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### USE THIS MAP

- This map is intended to provide suggestions for activities and careers, but everyone's abilities, experiences, and constraints are different. Build your own Grad Map using our online My Grad Map tool.

Visit careers.queensu.ca/gradmaps for the online version with links!
Application FAQs

What do I need to know to APPLY?

ACADEMIC REQUIREMENTS

• MSc in Chemistry of equivalent, or direct entry from BSc for exceptional candidates with extensive research experience.
• Grade requirements: minimum upper second class standing (B+ average).

ADDITIONAL REQUIREMENTS

• If English is not a native language, prospective students must meet the English language proficiency requirements in writing, speaking, reading, and listening. The School of Graduate Studies requires the following minimum scores: TOEFL (paper-based): 550, (2) TOEFL iBT: Writing (24/30); Speaking (22/30); Reading (22/30); Listening (20/30), for a total of 88/120 (applicants must have the minimum score in each test as well as the minimum overall score), or (3) IELTS: 7.0 (academic module overall band score), or (4) PTE Academics: 65.

KEY DATES & DEADLINES

• Application due: February 1st to be considered for awards. Later applications are accepted. International students are encouraged to apply early.
• Notification of acceptance: Accepted students are notified as the applications are reviewed.

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

What about FUNDING?

The minimum funding guarantee for Chemistry PhD students is $23,000 per year, throughout years 1-4. The funding package may be comprised of graduate awards, research assistantships, and teaching assistantships.

We encourage all students to apply for external funding from OGS, NSERC and other sources. Queen's will automatically issue a $10,000 award to incoming PhD students who have won federal government tri-council awards. For more information, see the School of Graduate Studies' information on awards and scholarships.