**Application FAQs**

**What do I need to know to APPLY?**

**ACADEMIC REQUIREMENTS**
- Master of Applied Science or Master of Science.
- Grade requirements: minimum cumulative average of B+, with a minimum of 77% in last year of study.

**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, (internet-based): 80; IELTS: 6.5 (overall). ATOEFL (internet-based): 20; Reading (20/30); Writing (20/30); Listening (20/30); for a total of 86 total (applicants must have the minimum score in each test as well as the minimum overall score).
- (3) ILTS: 70 (academic module overall band score), or (4) PTE Academics: 65.

**KEY DATES & DEADLINES**
- Application deadline: There is a constant intake so there is no set deadline for application. If you are international, we recommend that you have completed your application at least 4 months ahead of your admission cycle.

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

**What about FUNDING?**

The level of financial support consequently varies among graduate students in the Department, with a guaranteed minimum level of $25,000 (Masters and PhD) for 2016-2017. As part of the minimum funding package, you may serve as a Teaching Assistant for at least one term per year.

We encourage all students to apply for external funding from OGS, SSHRC and other sources. We encourage all students to apply for external funding from OGS, SSHRC and other sources. Queens will automatically issue a $10,000 award to incoming PhD students who have won external funding. If you are international, we recommend that you have completed your application at least 4 months ahead of your admission cycle.

**Why GRADUATE STUDIES in CHEMICAL ENGINEERING?**

As a PhD student in the field of Chemical Engineering, you can play a vital role in future developments in such areas as biological conversion, pollution degradation, tissue engineering, process control and optimization, (bio)chemical sensing, nanocomposites, and many of other areas. Chemical Engineering has a wide range of applications that contribute to modern life and its technologies.

Graduate students and their work are an important part of an ongoing research process that provides the community with ways of understanding natural, cultural, imaginative, social and technological phenomena. Check out whygradstudies.ca for more reasons to choose graduate studies in engineering.

**Why QUEEN’S?**

Queen’s University is one of Canada’s leading research-intensive universities, with over $14 million in sponsored research funding and almost $5 million in revenues from technology transfer. It consistently ranks as one of the top three medical/doctoral universities in Canada and offers an unparalleled environment to facilitate academic development. Among Queen’s goals is to attract and retain students with outstanding potential from across Canada and around the world.

The Department of Chemical Engineering at Queen’s University is based in Dapuis Hall and the Biosciences Complex, which are multipurpose facilities with extensive research laboratories, and large- and small-group teaching classrooms. Areas of research in the department include: Biomedical engineering, polymer and reaction engineering, process systems engineering, sustainable energy sources and environmental engineering. Activities range from developing new bio- and polymers materials and production techniques, to understanding how the dynamic structure of a chemical process limits the performance that can be achieved. Significant collaborations across these fields exist within the department, and faculty members also collaborate extensively with other researchers across Queen’s and at other institutions.

**Program STRUCTURE**

**PhD (4 years):** course work, research thesis, comprehensive exam, and two seminars.

The Chemical Engineering Department offers opportunities to collaborate with scientists in the Human Mobility Research Centre and Computational Science and Engineering, as well as with co-supervising faculty in other departments.
ACHEIVE YOUR ACADEMIC GOALS

- Key priorities include forming your committee, coursework, field exams, and language exam.
- Meet early with your supervisor to set expectations and discuss roles, responsibilities, program requirements, resources, research/occupational goals, timelines, and any required accommodation plans.
- Look to Student Academic Success Services for a variety of supports.
- Attend the Departmental Speaker Series (CHEE 897).
- Write and defend your thesis proposal.
- Embark on your substantive research.
- Set regular meetings with your supervisor to discuss progress and obstacles to timely completion.
- Find your way through the academic process with help from Expanding Horizons workshops.
- Seek experiential/professional development opportunities.
- Establish goals with your supervisor.
- Attend your Departmental Speaker Series (CHEE 897).

MAXIMIZE RESEARCH IMPACT

- Think about audiences for your research.
- Complete the ROMEO online module on research ethics if doing research with living people or sensitive topics.
- Apply to NSERC, CGS, and other funding.
- Attend conferences in your field.
- Present your work at graduate conferences.
- Expand your research audience through social media.
- Consider publishing elements of your research. Learn from the Expanding Horizons Publishing workshop.
- Apply for the Graduate Dean’s Travel Grant for Doctoral Field Research.
- Continue to present at conferences.
- Consider participating in the 3 Minute Thesis (3MT) competition.
- Contact the Queen’s Media Centre for guidance on speaking to news outlets about your work. List yourself on the Faculty of Engineering and Applied Science Research website.
- Practice articulating the skills you have been developing in settings outside the university, such as casual conversation, networking, and interviews. Get help from a Career Services workshop.

BUILD SKILLS AND EXPERIENCE

- Serve on departmental, faculty or university committees. Talk to the Chemical Engineering Graduate Student Association (CEGSA) about getting involved.
- Consider positions in student services, the SGSS, or media outlets like the Queen’s Journal, AMS Clubs Directory, and the SGS Blog. Look in the AMS Clubs Directory.
- Use a Teaching Assistant or Research Assistant position to develop your skills and experience.
- Hone skills for non-academic employment by continuing involvement on committees and in community.
- Start keeping an epitaph of your skills, experiences and competencies.
- For help with teaching, get support from the Centre for Teaching and Learning. Enrol in SGSS91 or the PUTL certificate for more professional development in teaching and learning.
- Find opportunities for extra training through CTL, Expanding Horizons, Mitacs, or other sources to enhance your skills. Investigate internships from Mitacs or other sources.
- Prepare for work or study in a multi-cultural environment by taking the QUIC and Four Directions Aboriginal Student Centre’s Training Certificate.
- Practice articulating the skills you have been developing in settings outside the university, such as casual conversation, networking, and interviews. Get help from a Career Services workshop.

ENGAGE WITH YOUR COMMUNITY

- Consider volunteering with different community organizations.
- Connect to broader communities of engineers.
- Participate in your graduate and professional community through activities such as graduate student outreach programs, organizing conferences, and research groups.
- If pursuing research abroad or outside Kingston, investigate options.
- Do some targeted networking with people working in careers of interest, through QueensConnects on LinkedIn, the Queen’s Alumni Association, professional associations, and at conferences. Get help from a Career Services workshop.
- Consider joining professional associations like the Canadian Society for Chemical Engineering.
- Continue targeted networking with people working in careers of interest. Join groups on LinkedIn reflecting specific careers or topics of interest in Chemical Engineering.

LAUNCH YOUR CAREER

- Finding career fit starts with knowing yourself. Take a Career Services career planning workshop or meet with a career counsellor for help. Check out books like So What Are You Going to Do With That? for advice on various career options.
- Start reading publications like University Affairs and the Chronicle of Higher Education. Browse non-academic labour market websites.
- Stay on the lookout for special events like Graduate Student Career Forum to explore your career paths.
- Start building your teaching portfolio including student evaluations, and seeking mentorship.
- Explore different careers of interest by reading alumni profiles on the SGS website, and using QueensConnects on LinkedIn to connect with Queen’s alumni, or find alumni in various careers through “Ask an Alum.” For more information check out Career Cruising.
- Investigate requirements for professional positions, or other opportunities related to careers of interest.
- Participate in hiring committees and attend job talks. Research academic careers of interest. Craft your CV and job application materials.
- Start focusing on non-academic areas of interest. Research organizations of interest and start putting together your industry resume and begin your job search plan.
- Build connections with faculty outside of your department. Pursue interviews for faculty positions and apply for post-doc fellowships and positions.
- Apply to jobs or make plans for other adventures. Get help from Career Services with job searching, resumes, or interviews.
- If considering jobs abroad, research possible immigration regulations. If you are an international student interested in staying in Canada, consider speaking with an International Student Advisor.