Application FAQs

What do I need to know to APPLY?

ACADEMIC REQUIREMENTS
• Bachelor’s degree in Engineering or other relevant program.
• Grade requirements: minimum B+ (77%) 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, (internet-based): 80; IELTS: 6.5 overall band score.

KEY DATES & DEADLINES
• Application deadline: June 1 for September entry, October 1 for January entry, and April 1 for May entry.

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

What about FUNDING?

Chemical Engineering graduate students have a minimum funding of $25,000. As part of the minimum funding package, you may serve as a Teaching Assistant for at least one term per year.

Apply for external funding from OGS, SSHRC and other sources. Queen’s will automatically consider all applicants for internal awards and scholarships.

Why GRADUATE STUDIES in CHEMICAL ENGINEERING?

As a Master’s 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?

As a Master’s student in Chemical Engineering at Queen’s you are part of one of the most research intensive universities in Canada. Our research program is internationally renowned with a wide range of research activities in all of the major specialization areas.

“My passion is scientific research. I enjoyed the interaction between the students and faculty and our industrial partners. It was like a built-in work experience while you’re in school (giving me) real world experience that I can add to my résumé.”

– Adegboyega Babasola, MSc

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INTERMEDIATE STAGE

- Complete your coursework, begin to research and write your cognate essay or thesis.
- Attend the Departmental Speaker Series (CHEE 897).
- Complete the Academic Integrity Tutorial.

WRAPPING UP

- Present your research to Chemical Engineering graduate students and faculty.
- Complete and defend your Master’s research thesis.

WHAT WILL I LEARN?

A graduate degree in Chemical Engineering can equip you with:
- Knowledge and technical skills
- Effective communication skills in multiple forms for diverse audiences
- Information management: prioritize, organize and synthesize large amounts of information
- Time management: meet deadlines and manage responsibilities despite competing demands
- Project management: develop ideas, gather information, analyze, critically appraise findings, draw and act on conclusions
- Creativity and innovation
- Professionalism in all aspects of work, research, and interactions
- Leadership: initiative and vision leading people and discussion

WHERE CAN I GO?

A Master’s degree in Chemical Engineering can take your career in many directions. Many of our MASc students choose to continue their academic inquiry with a PhD. Our Master’s students are equipped with a strong foundation for careers in:
- Academia
- Consulting
- Finance
- Manufacturing
- Petroleum
- Pharmaceuticals

Getting started

- Start with key priorities like developing your relationship with your supervisor, forming your committee, and doing your coursework.
- Consider how your course papers can contribute to your cognate essay or thesis.
- Find your way through the academic process with help from departmental and Expanding Horizons professional development workshops, the department Grad Chair and the SGS Habitat.

Maximize research impact

- Start to think about the audiences for your research.
- If you will be continuing graduate studies, apply for NSERC and OGS funding.
- Prepare for work or studies in a multi-cultural environment by taking the Intercultural Awareness Training Certificate.
- Consider joining professional associations like the Chemical Engineering Graduate Student Association (CEGSA). Enroll in the SGS website, and using SGS Habitat.

Build skills and experience

- Consider positions in student services, the SGS, or media outlets like the Queen’s Journal, CFP, and the SGS Blog. Look in the AMS Clubs Directory for more ideas.
- Serve on departmental or university committees. Talk to the Chemical Engineering Graduate Student Association (CEGSA) to get involved.
- Start keeping an ePortfolio of your skills, experiences and competencies.
- Use a Research Assistant or Teaching Assistant position to develop your research or teaching skills.
- For help with teaching, get support from the Centre for Teaching and Learning. Enrol in SGS902 or the PTL certificate for more professional development in teaching and learning.

Engage with your community

- Explore how you can connect with your community through experiential opportunities on- and off-campus.
- Participate in your graduate and professional community through activities such as graduate student outreach programs, organizing conferences, and research groups.
- Prepare for work or studies in a multi-cultural environment by taking the Intercultural Awareness Training Certificate hosted by QUIC and Four Directions Indigenous Student Centre.
- 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 serving as a graduate assistant in your field. The Queen’s Alumni Association offers a fellowship to the best graduate student in your field.
- Consider joining professional organizations like the Canadian Society for Chemical Engineers.

Launch your career

- Finding a career that fits starts with knowing yourself. Get help by taking a Career Services career planning workshop or meeting with a career counselor. Check out books like So What Are You Going to Do With That? or Planning a Scientific Career in Industry from the Career Resource Area 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 Week to explore your career pathways.
- Check admission test deadlines if needed for further studies.
- Consider putting an article in The Conversation.
- Attend a major conference in your field, such as the Canadian Chemical Engineering Conference or an Asian Pacific Confederation of Chemical Engineering Conference. Speak with your supervisor about options for conferences in your area of research.
- Attend the Departmental Speaker Series (CHEE 897).
- Consider publication options for your research.
- 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.
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