

Chemical Engineering MSc Map

Applying to and Navigating Graduate Studies

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 prevention and treatment, tissue engineering, process control and optimization, (bio)chemical sensing, nanocomposites, and many 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.



"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



The Chemical Engineering Department has links to a number of multi-disciplinary centres at Queen's, including: the Centre for Health Innovation, Innovation Park, the Queen's Centre for Energy and Power Electronics Research (ePOWER), and the Queen's Innovation Connector.

Program Structure

MSc (approximately 2 years): 4 courses, seminar, and thesis.

members to identify a potential supervisor. Please note, however, that contacting a faculty member does not guarantee acceptance and you will need to submit your full application in order to be considered.

Visit the [Chemical Engineering Department website](#) to read faculty profiles and learn more about faculty members' research areas.

Why Queen's?

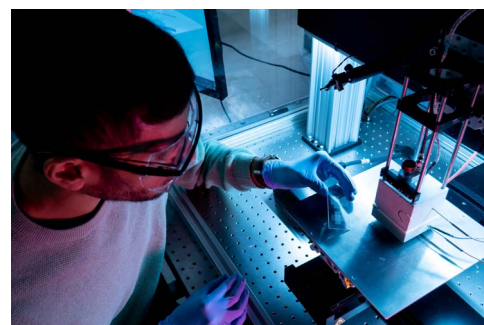
Queen's University is one of Canada's leading research-intensive universities. Queen's offers an unparalleled environment to facilitate academic development.

Among Queen's goals is to attract and retain students with outstanding potential from across Canada and around the world.

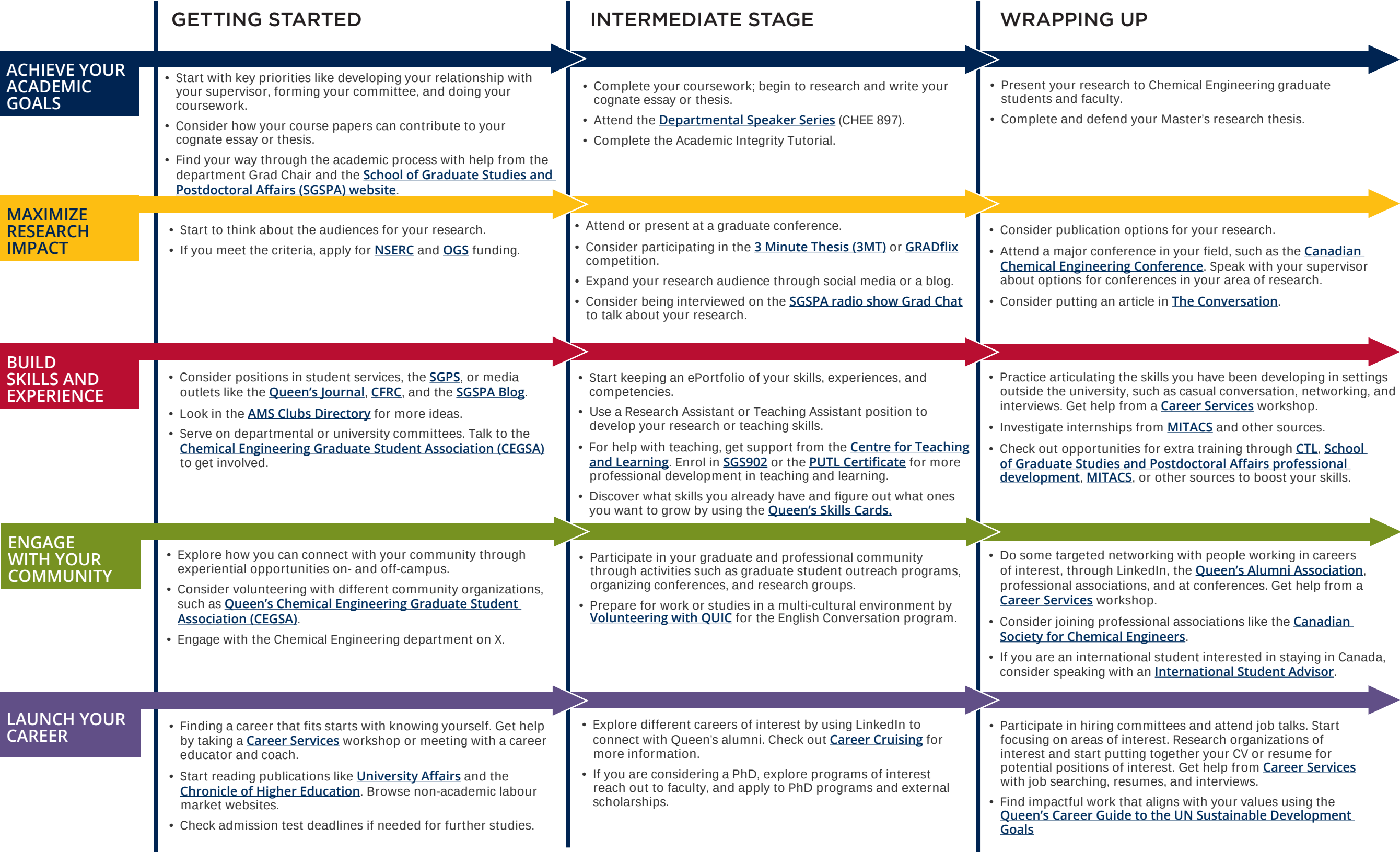
Research Areas

- Bioengineering
- Clean Energy and Sustainable Environment
- Materials and Interfaces
- Process Systems Engineering and Systems Biology

We suggest that you review the specific research interests of individual faculty



Chemical Engineering MAsc Map



Knowledge & Workplace Skills

A graduate degree in Chemical Engineering will empower 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**
- Perseverance**
- Independence** and experience as a collaborative worker
- Awareness** and understanding of sound ethical practices, social responsibility, responsible research, and cultural sensitivity
- Professionalism** in all aspects of work, research, and interactions
- Leadership:** initiative and vision leading people and discussion

Career Possibilities

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

Taking time to explore career options, build experience, and network can help you have a smooth transition to the world of work after graduation.

How to use this map
Use the 5 rows of the map to explore possibilities and plan for success in the five overlapping areas of career and academics. To make your own custom map, use the My Grad Map tool: careers.queensu.ca/gradmaps.

Graduate Studies FAQs

How do I make the most of my time at Queen's?

Use the Grad Map to plan for success in five overlapping areas of your career and academic life. Everyone's journey is different - the ideas on the maps are just suggestions to help you explore possibilities. For more support with your professional development, take advantage of the SGSPA professional development framework and the new Professional Development Plan (PDP) process to set customized goals to help you get career ready when you graduate.

Where can I get help?

Queen's provides you with a broad range of support services from your first point of contact with the university through to graduation. Ranging from help with academics and careers, to physical, emotional, or spiritual resources – our welcoming environment offers the programs and services you need to be successful, both academically and personally. Check out the [SGSPA website](#) for available resources.

What is the community like?

Queen's offers graduate students from every discipline a close-knit intellectual community where they can learn, discover, and build lasting connections. With more than 130 graduate programs across 50+ departments and research centres, students benefit from world-class scholars, prize-winning professional development, generous funding packages, and life in the historic waterfront city of Kingston. The campus sits at the heart of Kingston, just a 10-minute walk from downtown's shops, restaurants, and waterfront, and is deeply integrated with the local community. For more on Kingston's history and culture, see Queen's University's Discover Kingston page.

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 first language, nor was the language of instruction in undergraduate studies, prospective students must meet English language proficiency requirements in writing, speaking, reading, and listening as part of the application process, and before final acceptance is granted, as per School of Graduate Studies and Postdoctoral Affairs' regulations.

KEY DATES & DEADLINES

- **Application due:** There is a constant intake with no set deadline. It is recommended that the application be completed at least 4 months ahead of the desired admission cycle, especially for international students.
- **Notification of acceptance:** Rolling acceptances for September, January, and May academic cycles.

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

What about Funding?

Chemical Engineering MASc students currently have a minimum funding package of \$29,010. 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, NSERC, and other sources. For more information on awards and scholarships, consult the School of Graduate Studies and Postdoctoral Affairs' website.

