

Engineering Chemistry

Get to know ENGINEERING CHEMISTRY

In existence since 1895, the Engineering Chemistry program is renowned for producing graduates that have a firm grasp of fundamental science as well as the engineering tools that are needed to put this knowledge into practice. Accreditation by the Canadian Engineering Accreditation Board (CEAB) as an engineering program, and the Canadian Society for Chemistry (CSC) as a chemistry program, allows graduates to pursue professional careers in both disciplines – a truly unique benefit of an Engineering Chemistry degree.

The curriculum will provide you with the in-depth understanding of organic, physical, and analytical chemistry that is needed for early-stage design activities, when knowledge of basic principles is needed to create and/or advance new technology. The extensive training you acquire in core engineering principles such as fluid mechanics, thermodynamics, and engineering economics will ensure that you can contribute equally well to late-stage design activities that involve detailed equipment specifications and financial analyses.



"Trained in both pure and applied chemical sciences, Engineering Chemists are well positioned to address some of societies most important technological challenges."

Degree OPTIONS

Bachelor of Applied Science in Engineering

Bachelor of Applied Science in Engineering with Professional Internship

Queen's ADMISSIONS

Students apply to Queen's Engineering (QE) through the OUAC (Ontario University Application Centre) website. Secondary School prerequisites include these five 4U courses, English 4U, Calculus and Vectors 4U, Advanced Functions 4U, Chemistry 4U, and Physics 4U. Applicants outside of Ontario may have additional requirements.

A Common START

Queen's is unique in offering a common first year along with an open discipline choice. When you do choose your program, you don't have to worry about caps or quotas. Provided you pass all of your first year courses, you are guaranteed a place in your engineering program of choice.

Queen's also offers Section 900, a special extended program for students struggling with first year courses. Take things at a slower pace and recover in time for second year.

Course HIGHLIGHTS

The Engineering Chemistry curriculum combines chemistry and applied science courses, several of which are designed specifically for the program. These include:

- Thermodynamics of Energy Conversion Systems
- Electrochemical Engineering
- Applied Surface and colloid science
- Design of Manufacturing Processes
- Organic Process Development
- Quantum Mechanics
- ChemEtronics
- 4th Year Independent Research Thesis

Acquire Skills. Gain Experience. Go Global.

That is a degree from Queen's.

chemeng.queensu.ca

Engineering Chemistry MAJOR MAP

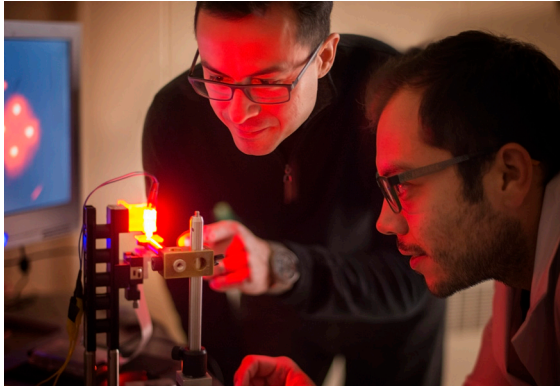
BACHELOR OF APPLIED SCIENCE | BACHELOR OF APPLIED SCIENCE WITH PROFESSIONAL INTERNSHIP



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. The map just offers suggestions – you don't have to do it all! To make your own custom map, use the [My Major Map](#) tool.

Engineering Chemistry



Get started thinking about the future now – where do you want to go after your degree? Having tentative goals (like careers or grad school) while working through your degree can help with short-term decisions about courses and experiences, but also help you keep motivated for success.

Get the help you need

Queen's provides you with a broad range of support services from your first point of contact with the university through to graduation. At Queen's, you are never alone. We have many offices dedicated to helping you learn, think and do.

Ranging from help with academics and careers, to physical, emotional, or spiritual resources – our welcoming living and learning environment offers the programs and services you need to be successful, both academically and personally. Queen's wants you to succeed! Check out the [Student Affairs website](#) for available resources.



Faculty of Engineering and Applied Science
Dupuis Hall, Room 201
19 Division Street
613.533.2765
chemeng.queensu.ca

QUIP QUEEN'S UNDERGRADUATE INTERNSHIP PROGRAM

START DATES

in May, September,
or January

POSITIONS

are paid and
full-time

WORK TERMS

are 12-16 months
long

PROGRAM OVERVIEW

- Graduate with a "Professional Internship" degree
- Learn about current advances, practices and technologies in business and industry.
- Test drive a career, earn a competitive salary, and get real world experience.

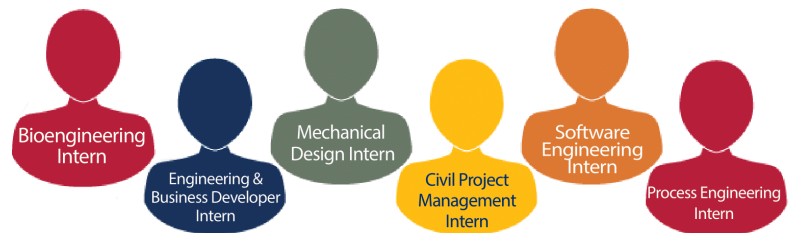
ELIGIBILITY

- 2nd or 3rd Year Students
- Minimum GPA of 1.9

WHY QUIP?

- Gain a year of career-related work experience.
- Build network connections.
- Receive support from Queen's staff in job search and during internship.

SAMPLE PAST INTERNSHIPS



For more information, contact quip@queensu.ca or visit the [Program Website](#).

Why study in Kingston?

Since 1841, our community has been more than a collection of bright minds – Queen's has attracted students with an ambitious spirit. Queen's has the highest retention rates, the highest graduation rates, and one of the highest employment rates among recent graduates. We are a research-intensive university focused on the undergraduate experience. The BBC has identified Kingston as one of the GREATEST UNIVERSITY TOWNS in the world – and it is often identified as the safest city in Canada. It is a university city at the core; just a quick drive to Toronto, Montreal, Ottawa and even New York. At a university with more clubs per capita than any other university in Canada, and in a city with more restaurants per capita than any other city in North America, you will have the experience of a lifetime at Queen's – and graduate with a degree that is globally recognized among the best.

We're closer than you think

