

# Biochemistry

The Biochemistry program provides students with in-depth training in a wide range of essential topics related to fundamental cellular processes, including cellular metabolism, movement, replication, repair, communication, and the molecular and genetic basis of infection and disease. The Biochemistry program offers opportunities for students to explore rapidly expanding fields in molecular genetics, bioengineering, and regenerative medicine through hands-on training with professors in research labs. This program also provides students with the in-depth training needed to prepare them for entry into graduate programs, industry, and a wide array of careers in the biomedical sciences, education, medicine, and biotechnology.

## TOP 5 Reasons to Study BIOCHEMISTRY

- 1 Explore how chemical and biological processes drive the function of the human body and all living organisms.
- 2 Work directly in our laboratories to become familiar with all types of equipment.
- 3 Build critical thinking, data analysis, and problem-solving skills that employers value.
- 4 Learn from top professors, who conduct research on cancer, reproductive health, and infection and disease.
- 5 Our internship program (QUIP) offers a range of careers to explore and companies to learn from.

## TOP ALUMNI JOBS

5% of alumni work in **GOVERNMENT**

11% of alumni work in **PHARMACEUTICALS**

17% of alumni work in **HEALTH CARE**

40% of alumni work in **EDUCATION & RESEARCH**

add an optional **CERTIFICATE**

Data Analytics

Disability and Physical Activity

Employment Relations

Geographic Information Science

Indigenous Languages and Cultures

Sexual and Gender Diversity

Urban Planning Studies

Law

Business

[QUartsci.com/certs](https://quartsci.com/certs)

## 2026-27 Plan Thresholds

Thresholds are made on a competitive basis and are updated annually. To see the thresholds for all programs as well as the latest information, please visit [quartsci.com/planselection](https://quartsci.com/planselection)

Interested in finding out how to augment your degree with Experiential Learning? Check in with your department to learn more about what opportunities and resources are available for you!

## Alumni Story

"Biochemistry is a program designed to challenge you but is incredibly rewarding. The courses, especially lab-based courses, teach you desirable skills that are highly transferable, such as data analysis and common biochemistry techniques. For students interested in research, I highly recommend doing a 4th year specialization project - it was this project that made me want to stay for a masters and PhD degree! Although the courses on this Major's Map may seem like a lot, balance your degree with fun electives and extracurricular clubs to make the most of your university experience (I highly recommend the Biochemistry Department Student Council)."

**-Kody Klupt, Biochemistry Specialization Grad**

BACHELOR OF SCIENCE: HONOURS DEGREE (SPECIALIZATION/MAJOR/MINOR) OR GENERAL DEGREE



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.

# Biochemistry

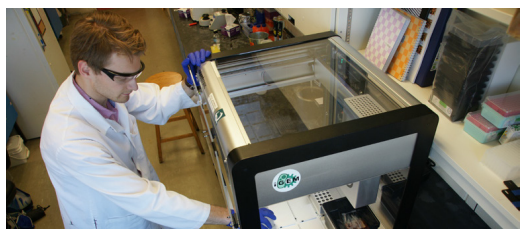


Get started thinking about the future now – where do you want to go after your degree? Having tentative goals (like careers or grad school) while working through your degree can help with short-term decisions about courses and experiences, but also help you keep motivated for success.

## 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.



**Queen's**  
UNIVERSITY

**ARTS AND  
SCIENCE**

Faculty of Health Sciences  
Botterell Hall, Room 815  
18 Stuart Street  
613-533-2900

[biochem@queensu.ca](mailto:biochem@queensu.ca)  
[healthsci.queensu.ca/liscbchm](http://healthsci.queensu.ca/liscbchm)

# QUIP

QUEEN'S UNDERGRADUATE  
INTERNSHIP PROGRAM

## START DATES

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.

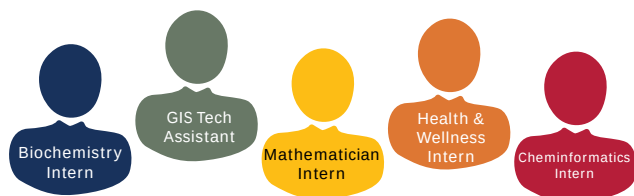
## ELIGIBILITY

- Complete 1st year before you register
- Complete 2nd or 3rd year before your internship
- Minimum GPA of 1.9
- Return to Queen's after your internship to finish your degree

## WHY QUIP?

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

## Sample Past Internships



For more information, contact [quip@queensu.ca](mailto: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 awarded 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. A university with more clubs per capita than any other university in Canada, and 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*

