

Physics

Physics at Queen's combines high-calibre research with an intermediate-scale learning setting, enabling attention and care towards undergraduate teaching as well as exposure to a broad range of topics and expertise. Our students will learn in an engaging environment with the opportunity to conduct interdisciplinary research in state-of-the-art laboratories, and work on projects involving international collaborators such as the experiments in dark matter and neutrinos happening below the surface of the Earth at the Sudbury Neutrino Observatory.

TOP 5 Reason to Study PHYSICS AND ASTRONOMY

- 1 The department is one of Canada's leading teaching and research institutes in Physics and Astronomy.
- 2 Award-winning physics educators such as 3M National Teaching Fellow James Fraser.
- 3 Our internship program (QUIP) offers a wide range of careers to explore and companies to learn from.
- 4 Brand new astroparticle physics institute named after Queen's Nobel Prize Laureate Art McDonald.
- 5 25+ summer research assistant positions offered by the department to students every summer.

TOP ALUMNI JOBS

11% of alumni work in **GOVERNMENT**

18% of alumni work in **TECHNOLOGY**

18% of alumni work in **BUSINESS & LAW**

31% 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

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

"For me, the community within the Physics Department was by far the best aspect of studying Physics at Queen's. The engaging instructors, knowledgeable technologists, helpful administrative and support staff, and my collaborative peers all contributed to my learning in the most positive way."

-Kate Fenwick, BSCH '17

Physics MAJOR MAP

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



Knowledge & Workplace Skills

A degree in Physics can equip you with:

- Knowledge of physics theories and mathematical models
- **Proficiency** in mathematics
- Facility for quantitative mathematical and computational analysis
- **Experience with laboratory equipment**
- **Design experiments and develop and write research proposals**
- Review scientific literature
- Draw conclusions from data and **evaluate sources of error**
- **Explain technical information** clearly in writing and verbal communication
- Use statistical software
- Adopt a systematic, analytical approach to problems

Career Possibilities

A degree in Physics can take your career in many directions. Many students choose to continue their academic inquiry with a Master's. Our students are equipped with a strong foundation for careers in:

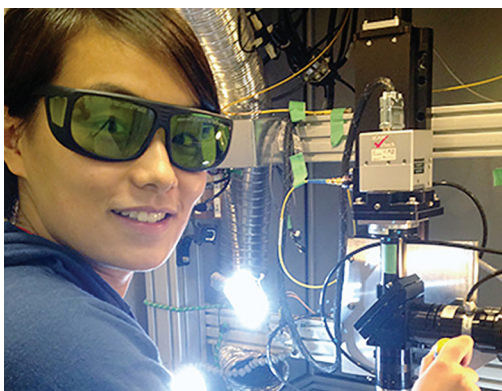
- Aerospace
- Astrophysics
- Computer simulations
- Forensic science
- Geophysics
- Imaging
- Nanoscience
- Photonics
- Planetary science
- Quantum Physics
- Radiology
- Remote sensing
- Robotics
- Space science
- Technology industry

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. 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.

Physics



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.



The Department of Physics,
Engineering Physics &
Astronomy
Stirling Hall
64 Bader Lane
613-533-2707
queensu.ca/physics

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.

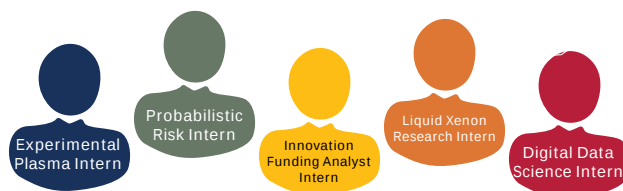
ELIGIBILITY

- 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 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

