

Physics, Engineering Physics & Astronomy PhD Map

Applying to and Navigating Graduate Studies



GRAD MAP FOR PhD STUDENTS →

Why GRADUATE STUDIES in PHYSICS, ENGINEERING PHYSICS & ASTRONOMY?

Our department provides exciting opportunities for graduate students to study in many stimulating research environments. In addition to a large number of high-profile professors, we have recently recruited many new world-class physicists who are setting up exceptional research programs in cutting-edge areas of theoretical, applied and experimental physics. In 2016 we had a record intake of excellent new graduate students, bringing our department total to over 75 Canadian and International students.

Why QUEEN'S?

The Department of Physics at Queen's University is one of the leading Canadian research institutes in Physics. Our faculty includes high-profile, world-class physicists who work on cutting edge areas of theoretical, applied and experimental physics. Our staff and students carry out their research on campus as well as at external facilities including some of the largest astronomical and astro-particle observatories in the world, such as the Gemini Observatory in Hawaii, the Sudbury Neutrino Laboratory (SNOLAB), and the High Performance Computing Virtual Lab (HPCVL supercomputer).

Program STRUCTURE

PhD (4 years): Course work, research project, thesis & defense, seminar series.



A member of the Department of Physics, Engineering Physics & Astronomy, Professor Emeritus Art McDonald, was co-winner of the 2015 Nobel Prize in Physics for his research on neutrinos with the Sudbury Neutrino Observatory Collaboration.

RESEARCH Areas

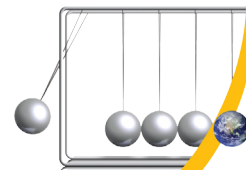
- Condensed Matter Physics & Optics
- Engineering & Applied Physics
- Astrophysics & Astronomy
- Particle Physics & Particle Astrophysics

We encourage you to identify an area of research interest and contact a potential supervisor before applying.

Visit the [Department of Physics, Engineering Physics & Astronomy website](#) to read [faculty profiles](#) and learn more about faculty members' research areas. When you find a faculty member with similar research interests to yours, contact him/her and tell them about your interest in graduate work and related experience.



School of Graduate Studies
Create an impact
www.queensu.ca/sgs



Physics, Engineering Physics & Astronomy PhD MAP*

DOCTOR OF PHILOSOPHY (PhD)



Visit careers.queensu.ca/gradmaps for the online version with links!

* This map is intended to provide suggestions for activities and careers, but everyone's abilities, experiences, and constraints are different. Build your own Grad Map using our online [My Grad Map](#) tool.

Graduate Studies FAQs

How do I use this map?

Whether you are considering or have embarked on graduate studies at Queen's, use this map to plan for success in five overlapping areas of your career and academic life. The map helps you explore possibilities, set goals and track your individual accomplishments. Everyone's journey is different – the guide offers options for finding your way at Queen's and setting the foundation for your future. To make your own customized map, use the online [My Grad Map](#) tool.

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 [SGS HABITAT](#) for available resources.

What is the community like?

At Queen's, graduate students from all disciplines learn and discover in a close-knit intellectual community. You will find friends, peers and support among the graduate students enrolled in Queen's more than 130 graduate programs within 50+ departments & research centres. With the world's best scholars, prize-winning professional development opportunities, excellent funding packages and life in the affordable, historic waterfront city of Kingston, Queen's offers a wonderful environment for graduate studies. Queen's is an integral part of the Kingston community, with the campus nestled in the core of the city, only a 10-minute walk to downtown with its shopping, dining and waterfront. For more about 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

- Master's degree in Science or Applied Science.
- **Grade requirements:** minimum B+ standing.

ADDITIONAL REQUIREMENTS

- Two official transcripts for all post-secondary studies.
- At least 2 letters of reference.
- Curriculum vitae.
- 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, (2) TOEFL iBT: Writing (24/30); Speaking (22/30); Reading (22/30); Listening (20/30), for a total of 88/120 (applicants must have the minimum score in each test as well as the minimum overall score), or (3) IELTS: 7.0 (academic module overall band score), or (4) PTE Academics: 65.

KEY DATES & DEADLINES

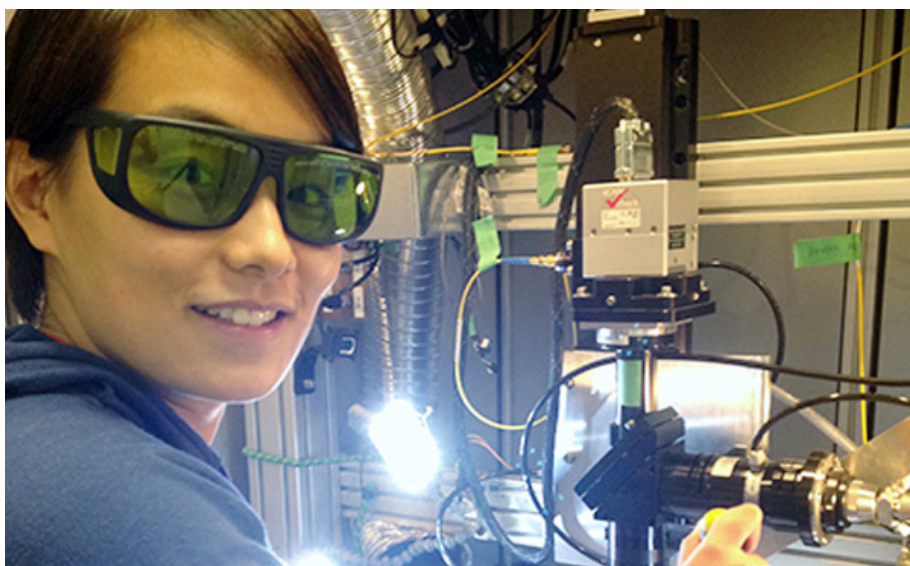
- **Application due:** February 15th.
- **Notification of acceptance:** 4 weeks after the full application has been received.

Before you start your application, please review the [graduate studies application process](#).

What about FUNDING?

The minimum funding guarantee for Physics PhD students is \$27,022 per year, throughout years 1-4. This basic level funding consists of graduate awards, external scholarships, teaching assistantships, and support from your supervisor.

We encourage all students to apply for external funding from OGS, NSERC and other sources. Queen's will automatically issue a \$10,000 award to incoming PhD students who have won federal government tri-council awards. For more information, see the School of Graduate Studies' information on [awards and scholarships](#).



DEPARTMENT OF
PHYSICS, ENGINEERING
PHYSICS & ASTRONOMY

Loanne Meldrum, Graduate Assistant
(613) 533-2687
meldruml@queensu.ca
queensu.ca/physics