



Physics: MSc, PhD

With more than 90 faculty members and over 200 graduate students, ours is among the largest and most diverse graduate Physics & Astronomy programs in the world. Our faculty are seeking outstanding students who are interested in performing advanced research in pursuit of the MSc and PhD degrees in physics & astronomy.

Our faculty are recognized worldwide for leadership and innovation in physics research and in teaching. The Herzberg and Brockhouse Medals, the Premiers Research Excellence Award/Early Researcher Award, the Sloan Fellowship, and the Nobel Prize in Physics are some of the awards our faculty have received.

Our students explore physical phenomena from the subatomic world of quarks and quantum foam, to the collective behavior of quantum and soft materials, to the Universe of galaxies and brane worlds. We offer collaborative programs in biophysics, quantum information, and nanotechnology. If you wish to pursue an MSc or PhD in one of our focus areas, or an MSc in theoretical physics through Perimeter Scholars International, this may be the right graduate program for you.

Facilities

We work collaboratively with the Department of Physics and Astronomy at the University of Waterloo, the Perimeter Institute for Theoretical Physics and the Institute for Quantum Computing. Our faculty and students have access to state-of-the-art, in-house laboratory facilities including the Nuclear Magnetic Resonance Centre at Guelph, sophisticated X-ray diffraction and scattering equipment, and a suite of instruments used to study biological and soft interfaces. Our faculty are guest investigators at international facilities including, the Canadian Institute for Neutron Scattering, the Tri-University Meson Facility (TRIUMF), the Canadian Light Source, and several others. Our students access telescope time on ground and earth-orbiting telescopes including the Hubble Space Telescope, the Chandra X-ray Observatory, the Gemini Observatories, the Herschel telescope, and the ALMA Telescope. We have first-rate computing facilities, which enables large-scale numerical simulations, including the Shared Hierarchical Academic Research Computing Network (SHARCNET).

Program Areas

Applied & Industrial Physics
Astrophysics & Gravitation
Atomic, Molecular & Optical
Physics

Biophysics
Chemical Physics
Condensed Matter & Material
Physics

Nanotechnology
Quantum Computing
Subatomic Physics



Applying to Graduate Studies in Physics

Application procedures and
minimum requirements are
outlined online at: www.gwp.on.ca
Check 'How to Apply'

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