



Carleton
UNIVERSITY

Canada's Capital University

Graduate Studies in Physics at Carleton University

M.Sc. Program 5 Courses + Thesis

Ph.D. Program 4 Courses + Thesis

exceptional students can be fast-tracked into the Ph.D. program after 1 year of M.Sc.
The Medical Physics PhD program is accredited by CAMPEP.

Medical Physics...

M.Sc. typically consists of Thesis and

- Computational Physics
- Medical Radiation Physics
- A non-medical physics course

1 of

- Physics of Medical Imaging
- Medical Radiotherapy Physics
- Radiobiology

plus

- One other medical physics course.

Ph.D. consists of Thesis and typically

- Medical Physics Practicum
- 3 other courses as required to meet the medical physics breadth requirement of a CAMPEP approved program.

In addition, research groups organize regular seminars and meetings. OCIP runs fall and spring graduate seminars along with an annual December Symposium and more general colloquia.

Particle Physics...

M.Sc. typically consists of Thesis and

- Computational Physics
- Quantum Mechanics
- Relativistic Quantum Mechanics
- Physics of Elementary Particles
- Experimental Techniques of Nuclear & Particle Physics

Ph.D. consists of Thesis and typically

- Quantum Field Theory
- Particle Physics Phenomenology
- Advanced Topics in Particle Physics Phenomenology
- One other course

Financial support

All students are guaranteed a competitive funding package consisting of teaching assistantship, research assistantship and/or scholarships. Outstanding students automatically receive enhanced scholarships.

Carleton-based faculty

Medical Physics:

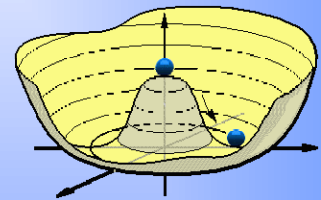
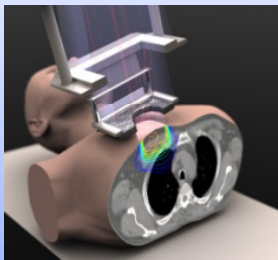
- E. Heath (radiotherapy, Monte Carlo)
- P.C. Johns (x-ray imaging)
- S. Murugkar (biophotonics)
- D.W.O. Rogers (radiotherapy, Monte Carlo)
- R. Thomson (radiotherapy, Monte Carlo)
- T. Xu (image guided therapy)

Theoretical Particle Physics:

- B. Campbell (phenomenology, strings)
- S. Godfrey (phenomenology)
- T. Grégoire (phenomenology)
- P. Kalyniak (phenomenology)
- H. Logan (phenomenology)

Experimental Particle Physics:

- J. Armitage (security screening applications)
- A. Bellerive (ILC, ATLAS)
- M. Dixit (ILC, EXO)
- K. Graham (EXO, DEAP)
- T. Koffas (ATLAS)
- G. Oakham (ATLAS)
- D. Sinclair (EXO)
- M. Vincter (ATLAS)



Graduate degree information...

physics.carleton.ca

For more information about M.Sc. or Ph.D. studies at the Physics Department of Carleton University:

Grad program: physics.carleton.ca/prospective-graduate-students
Email: grad_supervisor@physics.carleton.ca

To apply online: graduate.carleton.ca/apply-online/

