



UNIVERSITY OF ALBERTA

Edmonton ~ Alberta ~ Canada



GRADUATE AND UNDERGRADUATE STUDENTS RESEARCH POSITIONS IN ULTRAFAST AND NONLINEAR OPTICS, FREQUENCY COMB LASER TECHNOLOGY, AND PRECISION OPTICAL MAGNETOMETRY

The **Laser Science Lab** is part of the Department of Physics as well as the department of Electrical and Computer Engineering at the University of Alberta. Our lab's research covers development of novel lasers and their application in precision magnetometry (including tests of fundamental physics), medical imaging, communication and sensing. Specific research themes are focused on

- Novel nonlinear optics schemes for robust frequency comb generation
- Development of high-power femtosecond lasers for generating high-power extreme ultraviolet sources
- Ultraviolet frequency comb spectroscopy of noble gases for precision magnetometry

We have positions available for highly motivated graduate students (MSc and PhD) with excellent background in Physics, Electrical Engineering, or a multidisciplinary background, and a strong interest in laser technology and light-matter interaction. **Candidates should contact Prof. Porat** (gporat@ualberta.ca). Please include a short research statement and CV.

We also have available positions for undergraduate students in any year of Engineering Physics, Electrical Engineering, Physics or Chemistry. **Candidates should contact Prof. Porat** (gporat@ualberta.ca).



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