



# GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS RESEARCH POSITIONS

QUANTUM SENSING • LASER PHYSICS • ULTRAFAST AND NONLINEAR OPTICS

The Advanced QUAntum applications via complex states in integrated and meta optics (AQUA) consortium is an NSERC Alliance Quantum Consortium of universities (INRS, Toronto, Sherbrooke, Alberta, McGill) and partners (Xanadu, Enablance, OEC, CMC, PASQAL, SpectraCann, Ki3, Few-Cycle, COMBS) aiming to advance the development of quantum communication, imaging, and sensing technologies based on integrated, scalable, and energy efficient photonic platforms and processing techniques, including novel quantum sensing and imaging modalities based on Terahertz radiation.

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

Specific research themes are focused on

- Robust high-power fiber-based infrared frequency combs
- Novel nonlinear optics schemes for high-power Terahertz frequency comb generation
- Quantum sensing utilizing Terahertz frequency combs