

**Postdoctoral Fellow
Experimental AstroParticle Physics
Department of Physics
Queen's University**



The PICO Dark Matter Research team at Queen's University has an immediate opening for a postdoctoral fellow. The International PICO experiment is currently operational at the SNOLAB international facility for underground physics in Sudbury, Ontario. The PICO collaboration utilizes bubble chambers with superheated fluids to search for dark matter signals produced by recoiling nuclei that induce observable phase transitions in the fluid. The experiment has set world leading limits in the spin-dependent sector and is working towards the development of a next generation, tonne scale detector.

The successful candidate will assist the team in the operation and analysis of PICO results and with the development of new detectors with ultra-low levels of radioactivity. They will have a recent PhD in experimental astroparticle physics, nuclear physics, particle physics or a related field. They will play a leading role in the operation of the detector, detector assembly, design, commissioning and analysis of the data. Demonstrated hardware experience and experience in data analysis is required. Ideally, candidates will also have research exposure to low background techniques. The candidate will initially be based primarily at the SNOLAB facility in Sudbury (www.snolab.ca). Salary will be commensurate with qualifications and experience.

Applications should include a statement of research interests, a detailed CV and the names of at least three references. Applications should be sent to: Prof. Tony Noble, potato@snolab.ca or SNOLAB Institute, Stirling Hall, Queen's University, Kingston, ON, K7L 3N6,. Review of applications will begin March 1st 2016 and continue until the position is filled.

Queen's University thanks all who express an interest and advises that only those selected for an interview will be contacted. Queen's University has an employment equity programme, welcomes diversity in the workplace and encourages applications from all qualified candidates, including individuals from all nationalities, women, aboriginal peoples, people with disabilities, and racial minorities.