



**Postdoctoral Fellow
Experimental Neutrino Physics
Department of Physics, Engineering Physics & Astronomy
Queen's University**



The particle astrophysics group at Queen's University is seeking applicants for *two* postdoctoral fellow research positions on the SNO+ experiment. SNO+ will be a 780-tonne liquid scintillator detector that will study solar, geo, reactor, and supernova neutrinos and search for neutrinoless double beta decay with ^{130}Te loaded in the liquid scintillator. The experiment has been taking data since 2017 and will be transitioning to the scintillator and tellurium data-taking phases in 2018 and 2019.

The successful candidates will be involved in analysis of data from all phases of the SNO+ experiment. A particular focus will be on loading tellurium in the liquid scintillator and understanding the low-background performance of tellurium purification. Detector calibrations will also be an important activity. The postdoc positions are based at Queen's University in Kingston, Ontario; travel to SNOLAB in Sudbury, Ontario and possibly extended stays at SNOLAB are aspects of these postdoc positions.

The successful candidates will have a PhD in experimental particle physics, nuclear physics, or astroparticle physics. The original appointments will be for two years, with the possibility of renewal. Salary will be commensurate with qualifications and experience.

Applicants should submit a cover letter/statement of interest and a detailed CV, plus arrange for three letters of reference to be sent by e-mail to Professor Mark Chen (SNO+ Director): mchen@queensu.ca.

Review of applications will begin September 24, 2018 and will continue until the positions are filled.

Queen's University is committed to employment equity and diversity in the workplace and welcomes applications from all qualified candidates including women, visible minorities, indigenous people, persons with disabilities and persons of any sexual orientation or gender identity.