



Postdoctoral Fellow on the SNO+ Experiment

SNOLAB – Canada's Deep Underground Science Facility

An exciting postdoctoral position is available in the Particle Astrophysics Group at SNOLAB in Sudbury, Ontario, working with the Canadian Particle Astrophysics Research Centre (CPARC). The SNO+ experiment has a rich physics program using liquid scintillator, including solar neutrino measurements to low energies, the study of geo- and reactor- antineutrinos and sensitivity to neutrinos from a galactic supernova. The scintillator will be loaded with Tellurium to search for neutrino-less double beta decay in Te-130 with high sensitivity, which has the potential for world-leading results. SNO+ has been running in water-phase since May 2017, conducting background studies and searching for nucleon decay.

The postdoctoral fellow will be part of the SNO+ collaboration and will be expected to take a leading role in detector calibration operations, data analysis, and writing of papers. The successful candidate will have a PhD in experimental particle astrophysics, nuclear or particle physics or a closely related field; be experienced in operation and analysis of low-background or otherwise challenging experiments; have demonstrated ability to lead efforts in hardware development and data analysis; and work well in collaborations. This position is based at SNOLAB and will include supervisory and mentorship opportunities; integrating with SNOLAB, the SNO+ group at Laurentian University and the greater CPARC community. Shift work underground at the SNOLAB facility (6800-foot depth) is expected. This position is funded through CPARC for a two-year term.

Applicants should send a detailed CV and a statement of research interests, and arrange for three (3) letters of reference to be sent to Dr. Erica Caden, SNOLAB Research Scientist and Adjunct Professor of Physics at Laurentian University, erica.caden@snolab.ca.

Review of applications will begin May 21, 2018.

We are committed to equity in employment and encourage applications from all qualified applicants, including women, aboriginal peoples, members of visible minorities and persons with disabilities. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents.