

**Laurentian University Université Laurentienne**

## **Postdoctoral Research Position for the SNO+ Experiment**

A Postdoctoral Research position is available in the experimental particle astrophysics group at Laurentian University, for an experiment under development at SNOLAB in Sudbury, Ontario, Canada. SNOLAB is Canada's new state-of-the-art international facility for particle astrophysics and an expansion of the highly successful Sudbury Neutrino Observatory (SNO), located two kilometers underground at Vale's Creighton Mine. For information on the laboratory and the experimental program please see [www.snolab.ca](http://www.snolab.ca).

The SNO+ experiment will refill the SNO detector with a custom liquid scintillator to extend SNO's solar neutrino measurements to lower energies as well as to study geoneutrinos and reactor neutrinos. It also plans to load the scintillator with Neodymium to search for neutrino-less double beta decay with high sensitivity. The postdoctoral fellow would lead research in the SNO+ topics planned at the SNOLAB site and at Laurentian University. These include the development of a calibration system test facility at Laurentian, calibration source development, testing and commissioning for the SNO+ experiment. Other topics Monte Carlo modeling, development of monitoring tools and data analysis tools.

We seek an applicant with a PhD in experimental particle astrophysics, nuclear or particle physics or a closely related field. The candidates should have demonstrated ability to lead efforts in hardware development and data analysis. The position will be located at Laurentian University. The initial appointments will be for two years. Salary will be commensurate with qualifications and experience. Applicants should send a detailed CV and a statement of research interests, as well as arranging for three letters of reference to be forwarded to (please include the reference "SNO+ application"):

Dr. Christine Kraus  
Department of Physics, Laurentian University  
935 Ramsey Lake Road Sudbury, ON, P3E2C6  
or by e-mail to [christine.kraus@snolab.ca](mailto:christine.kraus@snolab.ca)

A review of applications will begin immediately until the position is filled. We thank all who express interests in this position and advise that only those selected for an interview will be contacted. For further information contact Dr. Christine Kraus [tine@snolab.ca](mailto:tine@snolab.ca).

Laurentian University is committed to equity in employment and encourages applications from all qualified applicants including women, aboriginal peoples, members of visible minorities and persons with disabilities.