



The Laurentian University group focusing on astroparticle physics invites applications for a

**Postdoctoral position**  
for the SuperCDMS experiment

The SuperCDMS Collaboration has pioneered the use of low temperature phonon-mediated detectors to detect the rare scattering of WIMPs on nuclei and distinguish them from backgrounds. The upcoming SuperCDMS SNOLAB project will construct a new experimental apparatus in SNOLAB starting 2019. The SuperCDMS SNOLAB experiment will improve the present sensitivity for dark matter WIMPs by two orders of magnitude.

In the meantime, a cryogenic test facility (CUTE) is currently under commissioning underground at SNOLAB, in the vicinity of the SuperCDMS allocated space. It is primarily designed to test the performance of the SuperCDMS cryogenic detectors. As a facility, it will also be accessible to scientists developing innovative cryogenic detectors for rare events search like dark matter or double-beta decay.

The CUTE/SuperCDMS SNOLAB group is supporting both CUTE and SuperCDMS installation, commissioning, and science phases.

The postdoctoral researcher will be actively involved in the commissioning and data acquisition phases of the CUTE test facility. The successful candidate will play a leading role in characterizing the detector performances at CUTE, analyzing the first science data at CUTE and in understanding and mitigating the environmental backgrounds in CUTE and SuperCDMS, will contribute to the operation of CUTE and participate in the installation of the new SuperCDMS experimental infrastructure and detectors at SNOLAB.

The position is based at SNOLAB and will include supervisory and mentorship opportunities. Shift work underground at the SNOLAB facility (6800-foot depth) is expected. This position is funded through the Arthur B. McDonald Canadian Astroparticle Physics Research Institute for a two-year term.

Candidates must hold or be near completion of a PhD in experimental physics at the time of recruitment. The candidate should have a background in astroparticle-, particle- or nuclear physics. Experience with cryogenic detectors and dilution refrigerators as well as in low background methods and data analysis are an advantage.

For further information please contact Silvia Scorza (E-Mail: [silvia.scorza@snolab.ca](mailto:silvia.scorza@snolab.ca)). Interested scientists should send their applications (including a CV, list of publications and a statement of research interest) and arrange for three recommendation letters to be sent to [silvia.scorza@snolab.ca](mailto:silvia.scorza@snolab.ca).

**Review of applications will begin May 31st, 2019 and continue until the position is filled.**

*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*