



# Student – Liquid Noble Gasses Cryogenic Facility Developer

RESEARCH GROUP  
Summer 2021

## About Us

SNOLAB is an international facility for world-class underground physics research and has an expanding programme in astroparticle physics and underground science. Located in an air-conditioned clean room 2 km underground in the Vale Creighton Mine near Sudbury Ontario, with a suite of surface facilities and laboratories, SNOLAB is currently preparing for the next generation of experiments focusing on neutrino studies and the search for galactic dark matter.

## The Position

The successful candidate will primarily contribute to the development and construction of the new SNOLAB liquid noble gasses cryogenic testing facility. This program will be essential for various particle astrophysics experiments (dark matter and neutrino searches), such as the Scintillating Bubble Chamber (SBC) experiment. Based on the current project schedule, the successful candidate will have the opportunity to contribute to the construction and commissioning of the cryostat at the heart of the program, as well as the inner instrumentation for the detection of scintillation and ionization signals.



📍 Creighton Mine #9, 1039 Regional Road 24, Lively, ON P3Y1N2  
☎ 705.692.7000 🌐 [www.snolab.ca](http://www.snolab.ca)

University of Alberta | Carleton University | Laurentian University | Université de Montréal | Queen's University

## Criteria

### Education:

Candidates must be enrolled in either a physics or engineering program when applying.

Must be 18 years or older, registered in post-secondary studies at an accredited institution or apprenticeship program, recent graduate (having graduated in the last 3-6 months) or individual returning to full-time or part-time studies in the next academic term.

### Experience:

Required:

- Basic programming skills (C++ or Python)
- Basic knowledge of Electromagnetism (undergraduate level)

Desired Experience:

- Basic knowledge of Particle Physics (undergraduate level)
- Hands-on experience with cryogenics and/or vacuum equipment.

### Salary Range

Salary will be determined by education and qualifications. These positions are subject to the availability of funding. To meet operational needs, shift work may be required.

### To Apply

Applications must be submitted to [studentjobs@snolab.ca](mailto:studentjobs@snolab.ca). **Please do not fax or mail your applications.** By applying to the e-mail address, your application becomes available to Research Scientists/Managers immediately. Interested students should include a cover letter and resume.



📍 Creighton Mine #9, 1039 Regional Road 24, Lively, ON P3Y1N2  
☎ 705.692.7000 🌐 [www.snolab.ca](http://www.snolab.ca)

University of Alberta | Carleton University | Laurentian University | Université de Montréal | Queen's University

## Closing Date

The posting will remain open until the position is filled, but a review of applications will commence on February 1st. SNOLAB thanks all applicants for their interest, however, only those students considered for an interview will be contacted.

SNOLAB is committed to equity in employment and encourages applications from all qualified applicants, including women, Indigenous persons, members of visible minorities and persons with disabilities. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents.

SNOLAB will provide support in its recruitment processes to applicants with disabilities, including accommodation that takes into account an applicant's accessibility needs.

Further information about SNOLAB may be found at [www.snolab.ca](http://www.snolab.ca)

**Posting Date: 15-January-2021**



📍 Creighton Mine #9, 1039 Regional Road 24, Lively, ON P3Y1N2

☎ 705.692.7000 🖱 [www.snolab.ca](http://www.snolab.ca)

University of Alberta | Carleton University | Laurentian University | Université de Montréal | Queen's University