



Undergraduate Research Assistant

Research Division
Summer 2024 term

Posting Date: January 10th, 2024

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 cleanroom 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. SNOLAB partners with several Canadian and foreign universities.

The Positions

Multiple positions are proposed at SNOLAB for the May-August term. The majority will be directly supported by SNOLAB and a handful will be supported by research grants through a partner university.

The SNOLAB positions aim at developing new techniques to expand the capabilities of the facility. They will encompass a broad range of topics such as

- radioactive assay and material screening,
- removal of contaminants in gas,
- commissioning and troubleshooting of new equipment,
- cleanroom techniques,
- upgrades and support for the CUTE facility,
- background simulations for the CUTE facility.

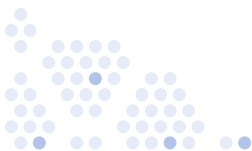
The grant-funded positions are geared toward furthering specific experiments, with the work involving hardware improvement, data analysis, monte-carlo simulation and detectors shifts.

The experimental projects interested in hiring students are:

- Dark Matter Search with Liquid Argon: DEAP-3600 DarkSide-20k and ARGO.
- Dark Matter Search using Bubble Detectors: PICO-40L and PICO-500.
- Neutrino physics with a scintillator detector with SNO+.

Other SNOLAB experiments may hire additional people as resources become available.

These are full-time positions.



📍 Creighton Mine #9, 1039 Regional Road 24, Lively, ON P3Y1N2
☎ 705.692.7000 🌐 www.snolab.ca

SNOLAB is committed to equity in employment and encourage 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 considers an applicant's accessibility needs.

Further information about SNOLAB may be found at www.snolab.ca

Criteria

Education:

Applicants 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:

Owing to the broad range of topics, many profiles are sought after, including physics, chemistry, and engineering. Experience in basic data analysis, including data formatting, statistics, and computer programming will be an asset.

Candidates should be comfortable working in a team environment where frequent and open communication is encouraged and expected as part of the culture. Any additional experience working in a laboratory environment, especially a cleanroom environment, is also an asset.

Salary

Salary will be determined by education and qualifications within a 20-24 \$/ range. These positions are subject to availability of funding. To meet operational needs, shift work may be required.

To Apply (to SNOLAB directly)

Applications must be submitted to studentjobs@snolab.ca.

The application will include a cover letter and resume in a single PDF file with the name:

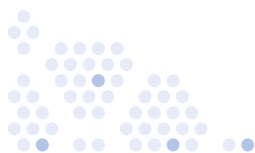
<Name>_Science_<AcademicYear>_<HomeInstitution>.pdf

As a result of the automation process, different format will be automatically rejected.

The posting will remain open until the position is filled, but 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.

Closing Date

Deadline to Apply: February 1st, 2024



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