Department of Physics,
Engineering Physics & Astronomy

Stirling Hall
Queen's University
Kingston, Ontario, Canada K7L 3N6
Tel: +1 613533-2707

Department of Physics, Engineering Physics & Astronomy
Queen's University

Job posting – Postdoctoral Fellow

Experimental Neutrino Physics

The SNO+ group at Queen's invites applications for a Postdoctoral Fellow position in experimental neutrino (astroparticle) physics. SNO+ is a liquid scintillator neutrino experiment and is the follow-up to the Sudbury Neutrino Observatory. SNO+ is pursuing a broad program of neutrino physics that includes the search for neutrinoless double beta with tellurium to be deployed in the detector's active volume. The project has a postdoctoral position opening that will be based at SNOLAB – the site of the SNO+ detector and related infrastructure. SNOLAB, located near Sudbury, Ontario, is Canada's underground laboratory for astroparticle physics.

Research activities will include leading quality assurance in the commissioning and operations of process systems related to SNO+ tellurium purification and loading. They include mentoring students and providing scientific oversight in these activities. Other activities with the SNO+ detector may also be among your responsibilities. You will participate in data collection, analysis and participate in the publication and presentation of SNO+ scientific results, internally as well as external to the SNO+ collaboration. Details of research activities will be determined in consultation with the successful candidate, aligned with the needs of the SNO+ collaboration and professional development goals.

We recognize that research impact can be demonstrated in a variety of ways and welcome applications from candidates with diverse training paths and experiences in experimental neutrino/astroparticle physics or closely related fields.

Required Qualifications:
● Ph.D. in experimental particle physics, experimental astrophysics, or other related research areas, by the time of the appointment.

Preferred Experience:
● Experience with low-background experiments.
● Technical/experimental skills with process systems is considered an asset.

Application instructions: All individuals interested in this position must submit a CV and a cover letter to mchen@queensu.ca with the subject line "Postdoctoral Fellow – Queen's SNO+" by the closing date. Please supply a list of references who will be contacted (only for short-listed candidates).

Closing date: April 24, 2026.

Expected start date: As soon as possible, at the availability of the successful candidate. The successful candidate will be required to demonstrate eligibility to work in Canada.

Salary: Starting at $70,000/year, commensurate with experience.
Term: Two (2) years, with the possibility of extension considered annually, based on available funding.
FTE: This is a full-time position with requirements for flexible scheduling, in coordination with the shift schedule at SNOLAB. Accommodations will be considered where they can be realized. The normal full-time work week for underground activities at SNOLAB is 40 hours per week.

Employment as a Postdoctoral Fellow at Queen's University (including those based at SNOLAB) would make you a member of the bargaining unit represented by the Public Service Alliance of Canada ("PSAC") Local 901, Unit 2. This job is posted in accordance with the Collective Agreement.

Diversity Statement
Scientific research, education, and diversity of inquiry can only flourish if all participants are fully supported to contribute, realize their potential, and express themselves freely. The Department and Queen's University recognize that opportunities for full participation have not been granted universally, and that barriers to participation exist today in the discipline. Motivated by scientific excellence, fairness, and respect, we must create an inclusive, equitable, and welcoming environment that fosters a sense of belonging in the Department, the University community and at SNOLAB.

All members of the Department, including faculty, staff, and students, are expected to create and maintain a kind and welcoming working and learning community. This responsibility is especially acute for those in positions of power, who must lead by example and be mindful of unequal dynamics that can arise from hierarchy or social privilege. Discussions, conflict, and feedback should be conducted in a respectful way. It is everyone's responsibility to respect the rights of freedom of expression, academic

freedom and freedom of research, and provide an environment free from prohibited discrimination and harassment, consistent with Queen's University policies.

We recognize the challenges faced by Indigenous Persons, Racialized Persons, Women, Persons with Disabilities invisible or apparent, members of the 2SLGBTQ+ Community, and other equity-deserving groups in the Department. We must strive to improve accessibility, well-being, and mental health support. We aim to develop new ways to support, engage with, and learn from Indigenous Peoples in our research, learning, and teaching. We commit to identifying and correcting biases and systemic inequities in our activities and structures, including those which reflect or have their basis in harmful colonial ideologies, and to improve recruitment and retention of members of underrepresented groups. We commit to an ongoing conversation that includes all voices. We invite everyone to contribute to that dialogue, and share with us their lived experience in this Department.

Accessibility Statement

The University is committed to the principles of the Accessibility for Ontarians with Disabilities Act (AODA). As such, we strive to make our recruitment, assessment and selection processes as accessible as possible and provide accommodations as required for applicants with disabilities. If you require any accommodations at any point during the application and hiring process, please contact admin@mcdonaldinstitute.ca.