

Postdoctoral Fellowship Opportunity in Theoretical Subatomic Physics

Applications are invited for a Postdoctoral Fellow position to support research in theoretical subatomic physics at Memorial University of Newfoundland, Grenfell Campus.

The new generation of high-precision electroweak experiments such as parity-violating lepton-lepton or electron-nucleon scattering, electron-positron collisions, and multiple potential measurements at EIC, can provide indirect access to new physics at multi-TeV scales and play an important complementary role to the LHC research program.

The theory group at Grenfell Campus is actively involved in research related to the high-precision searches of Physics Beyond the Standard Model, such as evaluating kinematic-specific radiative corrections at two loops, as well as the low-energy phenomenological hadronic physics. Both directions employ multi-loop calculations in electroweak or ChPT models with focus on dispersive methods.

Responsibilities:

1. Support research program in theoretical subatomic physics at Grenfell Campus.
2. Prepare manuscripts for submission to peer-reviewed publications.
3. Present at national or international conferences during the course of the fellowship.
4. Provide administrative and teaching support as requested.
5. Supervise undergraduate and graduate student assistants as requested.
6. Other duties as required.

The successful applicant will have completed all requirements for a doctorate in Theoretical Subatomic Physics and have excellent oral and written communication skills in English.

Gaps in career history/research history can exist for any number of reasons (i.e., family responsibilities, sick leave, etc.) and candidates are invited to discuss these gaps and their impacts on their work in their application.

Annual Salary: CAD \$45,000/year plus benefits and travel funds.

The principal investigators will provide research and teaching mentorship and opportunities for teaching experience in a wide range of courses. The Postdoctoral Fellow will be encouraged to apply for MUN per-course positions, with per-course stipend defined by [MUNFA Current Collective Agreement Articles](#).

Start Date: The fellowship is for one year commencing preferably by **January 2023**, with a possibility for an additional year pending satisfactory performance and funding approval.

Location: Grenfell Campus of Memorial University of Newfoundland (MUN), Corner Brook, Newfoundland and Labrador

Grenfell Campus of Memorial University of Newfoundland (MUN) the second largest campus of MUN located in the city of Corner Brook on the West coast of Newfoundland. The area is a popular tourist destination for hiking and boating, with a downhill skiing resort and Gros Morne National Park nearby.

Deer Lake airport is 40-min drive away; Channel-Port aux Basques port with ferry service connecting the island to Nova Scotia is two-hour drive.

Interested applicants should submit:

1. A cover letter explaining their research and teaching experience and their fit to this position.
2. A current CV.
3. Statement of relevant research interests and activities (2-page maximum)
4. Statement of teaching philosophy, experience and interests (1-page maximum)
5. Contact information for three referees.

Please send your application electronically to Dr. Aleksandrs Aleksejevs (aaleksejevs@grenfell.mun.ca) and Dr. Svetlana Barkanova (sbarkanova@grenfell.mun.ca), Grenfell Campus, Memorial University.

The application deadline is November 20th, 2023.

We thank all applicants for their interest. However, only those selected for an interview will be contacted. All qualified candidates are encouraged to apply; however, preference will be given to applicants who are legally entitled to work in Canada. Memorial University is committed to employment equity and diversity and encourages applications from all qualified candidates, including women, people of any sexual orientation, gender identity, or gender expression; Indigenous peoples; visible minorities and racialized people; and people with disabilities.

We also acknowledge that the lands on which Memorial University's campuses are situated are in the traditional territories of diverse Indigenous groups, and we acknowledge with respect the diverse histories and cultures of the Beothuk, Mi'kmaq, Innu, and Inuit of this province.