

AVAILABLE POSITIONS: POSTDOCTORAL FELLOW with NEWS-G Experiment

JOB SUMMARY:

Queen's University has been awarded a Canada Excellence Research Chair position in particle astrophysics. This position was made to provide funding for a Dark Matter search in previously unexplored WIMP mass ranges.

This experiment (NEWS-G, New Experiments with Spheres-Gas) will be performed with a spherical, gaseous detector comprised of low radioactivity materials, to be placed in SNOLAB in 2019. The successful candidate will participate tests of spherical detectors at the test facility at Queen's to optimize conditions of operation at SNOLAB, participate the installation and operations of the set-up at SNOLAB, participate data taking, as well as data analysis. The candidate may evolve towards taking responsibilities of data analysis coordination or SNOLAB run organisation for the whole collaboration.

Queen's SNOLAB group is one of the strongest astroparticle physics group in Canada, with Nobel Prize winner Art McDonald, and is the location of the Arthur B. McDonald Canadian Astroparticle Physics Research Institute, a partnership between 13 universities and research institutes, and works to unite researchers, theorists and technical experts within one organisation.

Posting Date:	3 October 2018
Job Title:	Post-Doctoral Fellow
Department:	Department of Physics, Engineering Physics, and Astronomy
Description of Area or Topic of Research:	Particle Astrophysics
Supervision and Academic Unit:	Supervisor: Gilles Gerbier Physics-SNOLAB Group
Remuneration:	To reflect ability/experience
Start Date and Duration of Appointment:	1 November 2018 through 31 October 2020
Required Qualifications:	<ul style="list-style-type: none">• PhD in engineering physics, applied physics or a related field.

- Valued skills**
- Experience with programming and physics analysis
 - Proficiency in Python, C++, MatLab would be considered an asset
 - Experience in particle detection instrumentation
 - Experience in GEANT4 simulation
 - Experience in low radiation background techniques
 - Proven ability to research independently and as part of a group.

Required Documentation: Cover letter, CV, 2 references

Application Deadline: 15 November 2018

Application Procedure: Please apply by e-mail to Julie McDonald, Research Coordinator, jmm27@queensu.ca

EMPLOYMENT EQUITY: The University invites applications from all qualified candidates. Queen's is committed to employment equity and diversity in the workplace and welcomes applications from women, visible minorities, Aboriginal peoples, persons with disabilities, and persons of any sexual orientation or gender identity.

cc. PSAC Local 901, Unit 2 - info@psac901.org