



Postdoctoral Researcher – Cryogenic Dark Matter Comp. #687

[TRIUMF](#) is Canada's particle accelerator centre, and one of the world's leading laboratories for particle and nuclear physics and accelerator-based science. We are an international centre for discovery and innovation, advancing fundamental, applied, and interdisciplinary research for science, medicine, and business.

At TRIUMF, we're passionate about accelerating discovery and innovation to improve lives and build a better world. Equity, diversity, and inclusion are integral to excellence and enhance our ability to create knowledge and opportunity for all. Together, we are committed to building an inclusive culture that encourages, supports, and celebrates the voices of our employees, students, partners, and the people and communities we serve.

We are currently accepting applications for a Postdoctoral Researcher to work on the direct dark matter search with cryogenic detectors. The Super Cryogenic Dark Matter Search experiment (SuperCDMS) builds on a long history of outstanding performance and world leading sensitivity for direct interactions of dark matter particles with terrestrial detectors. The next phase of the experiment is under construction at SNOLAB and will focus on dark matter particles with masses less than about $10 \text{ GeV}/c^2$. Recent developments in detector technology open an additional window for the search for very light electron-interacting dark matter.

The postdoctoral researcher will be actively involved in setting up a test facility for cryogenic detectors at TRIUMF, primarily focused on testing new detector concepts and prototypes for future upgrades of SuperCDMS. The successful candidate will also have the opportunity to make contributions to the installation of SuperCDMS and the commissioning of the new Cryogenic Underground TEst facility (also located at SNOLAB), which will include analysis of data acquired from the different facilities.

Applicants should be able to demonstrate their programming knowledge and adaptability to new programming languages. Qualifications include a recent PhD in Astroparticle or Particle physics, good oral and written communications skills, and experience in hardware based work. Experience with vacuum systems, cryogenics and/or solid-state detectors will be considered an asset. A PhD in other areas of physics can be considered if it is combined with relevant experience.

This position is funded by the Arthur B. McDonald Canadian Particle Astrophysics Research Institute and is based at TRIUMF. Regular visits to SNOLAB and for meetings in the US are to be anticipated. The term of employment is two years, with an option for extension based on funding and mutual satisfaction.

When submitting your application as detailed below, please include a detailed CV with a list of publications, and arrange for 3 letters of recommendation to be sent directly to the email below.

TRIUMF is an equal opportunity employer, and we welcome applications from all qualified candidates. Your complete application package should be submitted by email to recruiting@triumf.ca and will include the following in one complete PDF file:

- Subject line: Competition 687
- [Employment Application Form](#)
- Cover letter indicating salary expectations
- CV

Applications will be reviewed starting 2019-01-31, and the position will remain open until filled.