



Postdoctoral Researcher – ATLAS ITk

[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.

The [ATLAS Group](#) at TRIUMF is strongly involved in the Higgs, Supersymmetry, and Exotics physics programmes at ATLAS. TRIUMF built the ATLAS hadronic endcap calorimeter and hosts an ATLAS Tier-1 data centre maintained by a team of Grid computing experts based at TRIUMF and makes significant contributions to the Silicon Inner Tracker (ITk) detector as part of the phase-2 upgrades.

In support of this collaboration, TRIUMF's ATLAS Group is currently accepting applications for a postdoctoral researcher who will take a leading role in the preparations for and assembly of the Silicon Strip detectors and assembling them onto their carbon fibre support structure. The successful candidate will be expected to:

- Develop tooling and methods for strip module assembly and loading modules onto their support structures, and develop quality assurance tools for these to ensure a high success rate during the building phase
- Become an expert on cleanroom operation and equipment including wire bonder, coordinate measuring machine, and robotic gantry
- Disseminate results as articles in peer reviewed scientific journals and at national and international conferences and workshops
- Provide guidance to undergraduate and graduate students

Applicants must have a recent Ph.D. in experimental particle physics or will be receiving one in the near future. Applicants must have extensive knowledge of particle physics, detector physics, statistics, and general programming and computing, and have experience in radiation detector hardware and scientific computing. Strong communication skills and the ability to work both independently and as an effective team member are required.

This grant funded position will be based at TRIUMF, and the term of employment will be based on an initial commitment of one year. This may be renewed for a second and third term, based on mutual satisfaction and continued grant funding. Salary will be competitive depending on experience.

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 724
- [Employment Application Form](#)
- Cover letter indicating salary expectations
- CV

Applications will be accepted until position filled.

It is important to note that due to operation necessity, TRIUMF will as needed, make hiring decisions that could pre-empt the application closing date. Accordingly, we suggest candidates submit expressions of interest in a timely fashion.