

Postdoctoral Researcher - ATLAS

[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.

TRIUMF is part of the ATLAS collaboration at the Large Hadron Collider (LHC) near Geneva, Switzerland. The ATLAS Group at TRIUMF is strongly involved in the Higgs, Supersymmetry, and Exotics physics programs at ATLAS. TRIUMF built significant parts of the ATLAS hadronic endcap calorimeter and operates an ATLAS Tier-1 data centre maintained by a team of Grid computing experts based at TRIUMF. For the ATLAS phase-1 upgrade, TRIUMF is contributing to the LAr electronics upgrade and is constructing thin gap muon chambers for the New Small Wheel. For the phase-2 upgrades, TRIUMF is making significant contributions to the Silicon Inner Tracker (ITk) end-cap strips and LAr electronics. All upgrade projects are in close collaboration with a number of Canadian universities.

We are currently accepting applications for a Postdoctoral Researcher to join the TRIUMF ATLAS Group and take a leading role in analyzing ATLAS Run 2 data and preparing for Run 3. A major goal of the successful candidate will be to work on deep-learning methods for particle and jet reconstruction in the ATLAS experiment. Other responsibilities include:

- Supervising undergraduate and graduate students
- Disseminating results as articles in peer reviewed scientific journals and at national and international conferences and workshops
- Participating in additional areas of operations or upgrades such as sTGC integration and commissioning, alignment or software developments; LAr calorimeter operations and upgrades; ITk upgrades; or ATLAS software and computing (optional)

As our ideal candidate, you will have strong analytical, planning, and organizational skills as well as strong verbal and written communication skills. Your other qualifications include:

- Extensive knowledge of particle physics, data analysis, statistics and detector physics, and have experience with general computing and programming
- Experience with deep learning algorithms and hadronic reconstruction would be beneficial.
- A recent PhD in experimental particle physics, and previous experience with detector work, data analysis, and scientific computing.

While we are primarily recruiting those whose PhD was obtained in the past 5 years, exceptional candidates with more experience will also be considered.

This grant-funded position will be located at either CERN or TRIUMF and based on an initial commitment to a one-year term. This may be renewed for up to three years, based on mutual satisfaction and continued grant funding. Salary will be competitive based on experience.

TRIUMF is located on the south campus of the University of British Columbia, in the heart of Pacific Spirit Park in Vancouver, BC. We offer a competitive total compensation package, including comprehensive benefits, attractive salary, and an excellent opportunity to enhance your career portfolio in a high-profile national research facility.

Learn more about how the amazing research and work we do at TRIUMF impacts humanity <https://www.rarestdrug.com/>

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: 798
- [Employment Application Form](#)
- Cover letter
- Brief statement of research interests
- Detailed CV with a list of publications
- Arrange for at least 3 letters of recommendation or reference to be sent directly to recruiting@triumf.ca including Competition 798 in the subject line
- **Application closing date: November 15, 2020**

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