

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 hosts an ATLAS Tier-1 data centre maintained by a team of Grid computing experts based at TRIUMF. For the ATLAS phase-1 upgrades, TRIUMF is contributing to the LAr electronics upgrade and is constructing thin gap muon chambers for the New Small Wheel in collaboration with a number of Canadian universities. For the phase-2 upgrades, TRIUMF is making significant contributions to the Silicon Inner Tracker (ITk) detector and LAr electronics in close collaboration with a number of Canadian universities.

TRIUMF's ATLAS Group is currently accepting applications for a postdoctoral researcher. The ideal candidate will have an aptitude for hardware-oriented projects (with experience operating DAQ electronics or gas detectors, and a good grasp of detector geometry and alignment), but possibly also with an interest in more data analysis oriented projects. The absolute priority for approximately the first nine months of the position is the completion of X-ray surveys to determine readout strip positions in all remaining sTGC wedges constructed for the ATLAS New Small Wheel at CERN, and analysis of the data obtained from these surveys. Once all the wedges are surveyed, the successful applicant could choose to continue to focus on NSW commissioning or to spend more time on data analysis. Additional responsibilities will include:

- Coordinating, supervising and instructing students and technicians assisting with these surveys
- Interpreting the results of these surveys and making them available for ATLAS simulation and reconstruction
- Disseminating results as articles in peer reviewed scientific journals and at national and international conferences and workshops
- Participating in NSW commissioning, alignment or software development

As our ideal candidate, you will have strong organizational skills and composure when faced with challenges. Your other qualifications include:

- Extensive knowledge of particle physics and detector physics
- A safety-first attitude to measurements; attentive to both human and material safety
- Excellent verbal and written communication skills
- A recent PhD in experimental particle physics, and previous experience with detector work, data analysis, and scientific computing.
- Experience with detector alignment and data acquisition would be considered an asset.

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 CERN and is based on an initial commitment to a one-year term, to be renewed annually for a second and third term, based on mutual satisfaction and continued grant funding. Salary will be competitive depending on experience.

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: Competition 810
- [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 810 in the subject line

Application closing date: December 10, 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.