



Postdoc - AWAKE

[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 a member of the Advanced Proton Driven Plasma Wake-field Acceleration Experiment (AWAKE) collaboration at CERN, and in support of this we are currently accepting applications for a Postdoc who will be involved with the construction of the new X-band electron source for the experiment. The successful candidate will be expected to contribute to the development of a new advanced photo-injector for AWAKE Run2 and the CLEAR test accelerator. Specific responsibilities will include:

- Participating in the construction and testing of prototype hardware, in particular the rf-gun of the new AWAKE electron source
- Performing beam dynamics simulations to finalize and improve design
- Coordinating the mechanical design and installation activities of the new injector
- Performing hands-on work associated with the required construction

Applicants must have a recent Ph.D. in accelerator physics, or be receiving one in the near future, and sound knowledge of the theoretical and experimental aspects of accelerator physics. Practical experience in the construction and commissioning of particle accelerators would be beneficial, as would experience in performing beam dynamic simulations involving space charge using computer codes such as ASTRA.

This grant funded position will be based at CERN and will spend extended periods at CERN to perform required work. The term of employment will be based on an initial commitment of one year, and 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 727
- [Employment Application Form](#)
- Cover letter indicating salary expectations
- CV

Applications will be accepted until position is filled.