Postdoctoral Researcher

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 support our Medical Isotope development program. The Postdoctoral Researcher will join our interdisciplinary team to lead the development, characterization and tests of novel ultra-high-temperature materials, in particular thorium carbide for high-intensity proton beam irradiation and investigate methods to extract and separate rare medical isotopes such as ^{225}Ac. Other responsibilities include:

- Disseminating results as articles in peer reviewed scientific journals
- Presenting results at national and international conferences and workshops
- Supervising undergraduate and graduate students
- Working collaboratively with the project's primary investigator and co-investigators

You will be required to successfully complete the TRIUMF in-house radiation safety training course and be designated as a TRIUMF Nuclear Energy Worker.

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 experience in all or at least a significant subset of the following subjects:

- Online accelerator facilities (in particular radioactive ion beams), radioactive isotopes and medical isotopes in particular, nuclear physics, radiochemistry, analytical methods (e.g. XRD, XRF, SEM, mass spectrometry)
- Radiometric detection methods, high-temperature materials
- Vacuum systems, specialty software (e.g. FLUKA, Geant4, Ansys, Comsol, C++, ROOT)

Applicants must have a recent (within 5 years) or imminent Ph.D. in experimental physics, nuclear chemistry or material science. However, due to the interdisciplinary nature of the project we will accept other skill sets and experiences into account if the candidate can assert the relevance to the project.

This grant-funded position will be located at TRIUMF and will be a two (2) year term. Salary will be competitive based on experience.

TRIUMF

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 application package must be submitted by email to recruiting@triumf.ca. To be accepted for consideration applications must be complete, and must include the following in one PDF file:

- Subject line: 809
- 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 809 in the subject line

Application closing date: February 6, 2021

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.

Discovery, accelerated