

Discover [TRIUMF](#), Canada's particle accelerator centre. We are a publicly funded, not-for-profit research lab that is a hub for discovery and innovation.

Our mission is to serve as Canada's particle accelerator centre. We advance isotope science and technology, both fundamental and applied. We collaborate across communities and disciplines, from nuclear and particle physics to the life and material sciences. We discover and innovate, inspire and educate, creating knowledge and opportunity for all.

TRIUMF's diverse community of nearly 600 multidisciplinary researchers, engineers, technicians, tradespeople, staff, and students create a unique incubator for Canadian excellence, as well as a portal to premier global collaborations. Fueling innovation and improving lives, we are committed to accelerating discovery and shaping a better world.

Basic Function

This position will support professional engineering activities in the Cryogenics Group in an experienced role for both routine and non-routine activities. Routine services include operation, maintenance, troubleshooting and repair of the vacuum, cryogenic and refrigeration equipment. Non-routine work includes improvements, developments and assistance to new projects and facilities.

Specific responsibilities

- Operation, MRO, refurbishing and improvements for cryogenics and refrigeration for the TRIUMF accelerator complex. This includes the driver accelerators, the 520 MeV cyclotron and the e-linac as well as ISAC-II linac.
- Design, build, commissioning, and implementation of cryogenics and refrigeration for new projects including design notes, specifications, schematic diagrams, etc.
- Specification, selection, pricing and procuring of major cryogenic and refrigeration equipment, receiving permits for installation and operation from Safety Authorities.
- Contributing to international collaborations by writing technical papers, preparing presentations, etc.
- Cryogenics and refrigeration R&D for new projects and programs, including UCN

Knowledge and Skills

The position requires:

- Extensive knowledge of cryogenic & refrigeration techniques and is able to apply them to straightforward troubleshooting and operational situations.
- Sound knowledge of technical thermodynamics and process engineering
- Mechanical and Controls engineering skills
- Excellent knowledge of and compliance to applicable safety regulations and a strong background in applying best practices in cryogenic safety
- Able to write clear test plans, design notes or conference papers in support of a small project with the supervision of a mentor
- Familiarity with commissioning, operation and maintenance procedures for nuclear and particle physics equipment, accelerator and industrial installations would enhance the effectiveness of the incumbent
- Thorough knowledge in area of expertise including tasks, processes and practises. Self-directed, able to prioritize, with good interpersonal skills.

NUCLEAR ENERGY WORKER (NEW):

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

Minimal Qualification and Experience

- Requires a Graduate Degree in Engineering or Engineering Physics or equivalent.
- At least 5 years of experience in area of cryogenic engineering and/or operation, familiarity with process and instrumentation design.
- Eligibility to register as a P.Eng in British Columbia

This is a permanent position, located in Vancouver, BC Canada

Language of work: English

Salary range: \$68,800 - \$95,500 CAD per annum

All qualified applicants are encouraged to apply and will be given serious consideration, and in the case of equal qualifications, preference will be given to a Canadian Citizen or Permanent Resident.

Position type:

Permanent

Hours per week:

35

Benefits Information:

- TRIUMF paid dental, extended health, vision care, emergency travel assistance, EAP, Life Insurance, and supplementary Wellness Benefits.
- Excellent Employee Pension Plan
- Disability benefits, and optional additional Life insurance and AD&D.
- Generous time away
- Maternity and paternity leaves and top-ups

As a requirement of this position, the successful candidate will need to provide acceptable proof that they have been fully vaccinated for COVID-19, or demonstrate that they are unable to be vaccinated against COVID-19 for reasons protected under the BC Human Rights Code. TRIUMF will grant reasonable accommodation requests up to the point of undue hardship.

Application closing date:

Apply now and be part of our extraordinary journey.

Learn more about the amazing research and work we do at TRIUMF.

<https://www.discoverourlab.triumf.ca>

<http://www.rarestdrug.com>

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.

As an equal opportunity employer, committed to diversity, we encourage applications from members of groups that have been marginalised on any grounds enumerated under the B.C. Human Rights Code. All qualified applicants will receive consideration for employment.

Contact information:

Email: recruiting@triumf.ca

Phone: 604.222.1047

Fax: 604.222.3791

4004 Wesbrook Mall - Vancouver, BC - V6T 2A3

TRIUMF is located on the traditional, ancestral, and unceded territory of the xwməθkwəy̓əm (Musqueam) People, who for millennia have passed on their culture, history, and traditions from one generation to the next on this site.