

# Senior Health Physicist

## TRIUMF

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.

Are you passionate about ensuring a safe workplace and minimizing environmental impact? Look no further! The TRIUMF Office of Environment, Health, and Safety (EH&S) is on a mission to support TRIUMF's excellence in scientific research by promoting environmental responsibility, workforce health, and workplace safety.

We're currently seeking a **Senior Health Physicist (Sr. HP)** to join our esteemed team. As a key member of the Health Physics Group (HPG), reporting directly to the Health Physics Group Lead, you'll play a pivotal role in upholding our standards of excellence. Your expertise will be essential in providing leadership within HPG and offering site-wide technical support to ensure compliance with our Class 1B Particle Accelerator Operating License, the Radiation Protection Plan, and associated policies and procedures.

If you're ready to make a meaningful impact while advancing your career in a dynamic scientific environment, apply now to join us at TRIUMF.

### RESPONSIBILITIES:

- Attends planning meetings, area walk downs, and project gate reviews to develop design criteria, hazard assessments, engineering controls, and monitoring requirements.
- Ensure operations are monitored and controlled to keep radiation exposure limits for personnel within administrative limits and in accordance with the principles of ALARA.
- Assists with personnel dose calculations in case of contamination incidents
- Maintain and develop procedures and safe work methods to mitigate and decontaminate hazardous radiological conditions.
- Consults with TRIUMF researchers and visiting scientists regarding new experiments to determine that radiation and radioactive materials to be generated, the monitoring or sampling requirements, and equipment needed to ensure radiological safety and regulatory compliance.
- Instructs personnel in principles and regulations related to radiation hazards.
- Generate and/or review operating procedures, safety analysis reports, safety notes, and other technical support documents, as needed for assigned projects.
- For commissioning and decommissioning of systems and facilities, the position requires collaboration with a variety of research, engineering, and safety personnel to develop comprehensive plans that meet the acceptance criteria for the applicable regulatory agencies (e.g., WorkSafeBC, CNSC, Health Canada, etc.).
- Provide technical direction and guidance to TRIUMF staff, as needed.

## **DISCLAIMER:**

Physical - This role requires the following physical activity be performed on a semi-regular basis;

- Bending or Twisting the Body: The job requires leaning forwards or backwards or moving the body torsionally.
- Carrying: The job requires holding things while moving.
- Lifting: The job requires raising an object using the hands and arms

Environmental - This role may include entering areas with the potential for the following environmental exposure;

- Sound and Noise: sound and noise levels that are distracting or uncomfortable.
- Electricity: electrical energy - electrical circuitry, high tension wires, transformers, or other equipment that may be a potential source of electrical shock
- Dangerous Chemical Substances: contaminants, such as pollutants, gases, dust, or odours through inhalation, ingestion, or contact with skin.
- Radiation: radioactive substances or non-ionizing radiation such as radio frequencies and infrared, ultraviolet, or visible light that may adversely affect health.

## **SUPERVISION EXERCISED:**

There are no formal supervisory responsibilities associated with this position. Is responsible for providing guidance, training and mentorship to more junior employees and co-ordinate and direct activities involving other group members.

## **KNOWLEDGE AND SKILLS:**

- Expert knowledge of fundamental nuclear physics of radiation phenomena and accelerator systems and operations
- Broad knowledge in nuclear physics theory and radiation phenomena, all aspects of health physics, radiation detectors, applied statistics, and scientific computing applications
- Proven understanding and use of the principles and applications of health physics, including internal and external personnel dosimetry and techniques for calculating radioactive inventories, doses, and shielding properties and use of radiation detectors and associated data acquisition systems, including set-up, calibration, and troubleshooting and operation of a wide variety of measurement devices
- Data recording, handling, and analysis; statistics including a strong familiarity with various computer software packages
- Specialized knowledge of radiation and emissions monitoring systems and procedures
- In-depth comprehension of regulations and policies pertaining to radiation protection, radioactive substances, and radiation devices
- Collaborative skills.
- Must possess advanced writing skills to generate technical documentation, operating procedures, and similar safety basis documentation.
- Working knowledge of Microsoft Office Suite products. Knowledge of radiation shielding codes such as Microshield, MCNP, FLUKA, GEANT 4 desirable.
- Excellent interpersonal, comprehension, interpretation, and oral and written communications skills.

## **NUCLEAR ENERGY WORKER (NEW):**

The position requires the incumbent to be trained by TRIUMF and designated as a TRIUMF NEW.

## **MINIMUM QUALIFICATIONS AND YEARS OF EXPERIENCE:**

- Advanced Science degree, or equivalent in a related science or engineering field + minimum of 8 years of applied health physics experience, or an equivalent combination of a related bachelor's degree and years of experience. ABHP Certified Health Physicist (CHP) is preferred, but not required.

- Applicants must be legally able to work in Canada on a permanent basis (Canadian Citizen or Permanent Resident).

Position type: Permanent

Hours per week: 35

Total Rewards: At TRIUMF, we value our employees and are committed to providing a competitive total rewards package. We offer comprehensive benefits that promote the well-being and security of our staff and provide an excellent opportunity to grow your career in a high-profile national research facility, where you can make a difference.

Salary Range: \$86,100.00 - \$107,600.00

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: October 17, 2024**

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](mailto: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.*