

Research Scientist Molecular and Material Sciences

Located on the South Campus of the University of British Columbia, [TRIUMF](#) is Canada's national laboratory for particle and nuclear physics and accelerator based sciences. We are an international centre for discovery and innovation, advancing fundamental, applied, and interdisciplinary research for science, medicine, and business. We are as diverse in our areas of expertise, people, and cultures, as we are in our career opportunities, and we are constantly seeking dynamic individuals who thrive on creativity and excellence.

The TRIUMF Molecular and Materials Science research program focuses on new material, quantum materials, and molecular studies. TRIUMF is a leader in studies of magnetism, superconductivity, semiconductors and semi-metals, quantum diffusion, molecular bonding states, quantum materials, and fundamental and complex chemical reactions using muon spin rotation μ SR and β -NMR with spin-polarized isotopes.

The TRIUMF Physical Sciences Division is seeking a Research Scientist for the Material and Molecular Sciences Department to lead research, including the development and support of μ SR and β NMR experiments and infrastructure. The μ SR program was recently upgraded with experimental infrastructure (\$7M) by the Canada Foundation of Innovation (CFI) and its provincial partners and has leading edge research capabilities. Moreover, Canada's Advanced Rare Isotope Laboratory (ARIEL) which was funded through CFI (\$120M) will triple the current science capabilities with isotopes at TRIUMF in the near future.

The successful applicant will lead and initiate independent, self-directed research. In addition to the above, she/he will also:

- Provide intellectual, scientific and technological leadership, guidance, and input in developing forward-looking perspectives on μ SR/ β NMR techniques, technologies and experimental practices
- Provide technical support in the set-up and operation of facility-hosted experiments during beam times.
- Actively collaborate with Users' research programs
- Engage in outreach strategies aimed at strengthening relationships and identifying value based connections with the Stewart Blusson Quantum Matter Institute at the University of British Columbia

If you are highly motivated and self-directed and have a proven track record of excellence in science, attracting research funding, supervision of graduate students, hands-on expertise in preparing and conducting μ SR and/or β -NMR experiments and quantum materials then we encourage you to explore this opportunity

Qualifications include:

- A PhD related to molecular or materials science and quantum materials
- Expertise in preparing and conducting μ SR and/or β NMR experiments in all their aspects
- Technical skills and experience in some or all of the following: material or molecular spectroscopy, ultra-high vacuum technologies, RF systems, radiation-detection systems and data acquisition and analysis
- Demonstrated leadership and supervisory skills
- Presentation and planning skills
- Critical scientific thought; effective problem solving and experimental strategy skills
- Strong communication skills, both oral and written
- Excellent relationship building skills, and the ability to function effectively in a team environment

This is a full time TRIUMF Board Appointed tenure-stream appointment, and is considered equivalent to a faculty position at a Canadian university. This position enables applications for National Science and Engineering Research Council (NSERC) of Canada and other peer-reviewed funding opportunities. The

position is affiliated with the SB-Quantum Matter Institute at UBC and includes eligibility to hold adjunct professor status at an university including, but not limited to, any of the 19 member universities that govern TRIUMF. We offer a comprehensive benefits package and a competitive starting salary commensurate with qualifications and experience. This appointment will be at the rank of Assistant Professor equivalent, but in exceptional cases other levels can be considered.

TRIUMF is an equal opportunity employer committed to diversity in the workplace. We offer a creative, collaborative team environment working with brilliant individuals. TRIUMF recruits and selects applicants for employment solely on the basis of qualifications without regard to race, colour, nationality, religion, gender, gender identity, age, marital or parental status, disability, or political affiliation. All qualified applicants will be given serious consideration, and in the case of equal qualifications, preference will be given to a Canadian Citizen or Permanent Resident.

When submitting applications (as per instructions below), please also include a statement of research accomplishments and interests, and arrange for at least 3 referees to submit reference letters directly to the email contact below.

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 581
- [Employment Application Form](#)
- Cover letter indicating salary expectations
- CV

Applications will be accepted until September 30th, 2017