

RESEARCH ASSOCIATE – CRYSTAL GROWTH
STEWART BLUSSON QUANTUM MATTER INSTITUTE
UNIVERSITY OF BRITISH COLUMBIA

The Stewart Blusson Quantum Matter Institute (SBQMI) at UBC is seeking a PhD-level scientific researcher to support a renewed research thrust in single crystal growth and characterization of quantum materials. This multi-year position as a Research Associate will support the Institute's Principal Investigators in the design and crystal growth of bulk materials exhibiting emerging quantum phenomena. The candidate will also study the properties of these materials using a range of techniques such as X-ray diffraction and neutron scattering, as a complement to existing expertise.

Under the direction of the Principal Investigators working on this project, the successful candidate will: mentor a team of students and postdocs exploring these remarkable materials; through crystal growth, support multiple research groups that specialize in transport, scanning probe microscopy, ARPES, and optical investigations; and coordinate and interpret measurements.

SBQMI is a world-leading venture into research of systems and phenomena involving quantum materials. We believe in the power of collaboration to fuel the search for creative solutions and, in addition to building a strong interdisciplinary team of experimentalists and theorists from physics, chemistry and applied science, have established active partnerships with TRIUMF, the Canadian Light Source, the Max Planck Society, University of Tokyo, and many other world leading institutions.

The successful candidate will thrive in our collegial culture and will bring the following qualifications to the role:

- A PhD in an area relevant to the research pursuits of SBQMI;
- At least three years postdoctoral experience in the field;
- Well-established expertise in crystal growth of quantum materials with a range of techniques that includes floating zone crystal growth and high-pressure growth;
- Well-established expertise in a wide range of sample characterization techniques;
- A competitive record of publications in reputable scientific journals;
- Demonstrated capacity to pursue independent research;
- Experience leading research projects;
- Experience supervising students or staff;
- Demonstrated ability to work in a multi-disciplinary, highly collaborative environment where resources and expertise are shared.

If you are interested in this exciting opportunity to push the boundaries of knowledge through the discovery of new materials, please apply with your CV, a statement of research interests, and a covering letter to www.facultycareers.ubc.ca/30217

Salary will be commensurate with qualifications and experience. UBC offers a competitive benefits package including extended medical, dental, life insurance, and pension.

For more information about SBQMI: gmi.ubc.ca

For more information about Vancouver: <http://www.tourismvancouver.com/>

Equity and diversity are essential to academic excellence. An open and diverse community fosters the inclusion of voices that have been underrepresented or discouraged. We encourage applications from members of groups that have been marginalized on any grounds enumerated under the B.C. Human Rights Code, including sex, sexual orientation, gender identity or expression, racialization, disability, political belief, religion, marital or family status, age, and/or status as a First Nation, Metis, Inuit, or Indigenous person. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.