

## **RESEARCH ASSOCIATE MANY BODY NUMERICAL TECHNIQUES**

### **STEWART BLUSSON QUANTUM MATTER INSTITUTE**

### **UNIVERSITY OF BRITISH COLUMBIA**

The Stewart Blusson Quantum Matter Institute at UBC is seeking PhD-level Scientific Research staff to support its Condensed Matter Theory Group in development of modern computational techniques for strongly correlated many-body systems such as DMRG, QMC and ED. This multi-year Research Associate position will support the Institute's Principal Investigators whose program is focused on Many-body systems, work collaboratively with the SBQMI Experimentalists, and develop vigorous independent research program aligned with SBQMI interests. The successful candidate will also support the SBQMI research team by contributing to writing and publishing articles in top-tier journals, and mentoring SBQMI students and postdocs who wish to develop advanced numerical skills.

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 thriving partnerships with TRIUMF, the Canadian Light Source, the Max Planck Society, and many other world leading institutions.

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

- PhD in Physics, specializing in modern computational many-body techniques, including ideally DMRG, QMC and ED.
- Several years (minimum 3) of postdoctoral or equivalent experience.
- Strong publication record in the field
- Experience leading research projects
- Ability to pursue an independent research program aligned with SBQMI interests
- Good communication and collaboration skills
- Experience mentoring students strongly desired
- Recognition as a top scientist in a particular field of research

If you are interested in this exciting opportunity send your CV, with a cover letter to [csjob@qmi.ubc.ca](mailto:csjob@qmi.ubc.ca) . In the subject line please include "RA-MBNT" and your name.

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: [www.qmi.ubc.ca](http://www.qmi.ubc.ca)

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

*UBC hires on the basis of merit and is strongly committed to equity and diversity within its community. We especially welcome applications from visible minority group members, women, Aboriginal persons, persons with disabilities, persons of minority sexual orientations and gender identities, and others with the skills and knowledge to productively engage with diverse communities. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.*