

## RESEARCH ASSOCIATE MANY BODY NUMERICAL TECHNIQUES

### STEWART BLUSSON QUANTUM MATTER INSTITUTE

### UNIVERSITY OF BRITISH COLUMBIA

The Stewart Blusson Quantum Matter Institute (SBQMI) at the University of British Columbia 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 a 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 is strongly desired
- Recognition as a top scientist in a particular field of research

If you are interested in this exciting opportunity please submit your CV, a statement of research interests, and a covering letter to [www.facultycareers.ubc.ca/27829](http://www.facultycareers.ubc.ca/27829)

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

For more information about SBQMI: [www.qmi.ubc.ca](http://www.qmi.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.*