PRIZED POSTDOCTORAL POSITIONS IN QUANTUM MATERIALS, PHYSICS OF QUANTUM INFORMATION & QUANTUM TECHNOLOGIES

Département de physique
Faculté des Sciences
Université de Sherbrooke

The Physics Department at the Université de Sherbrooke invites applications for up to five postdoctoral positions in the areas of **quantum materials**, **quantum information**, and **quantum engineering**, and, especially at their intersections. The Université de Sherbrooke's project "From Quantum Sciences to Quantum Technologies" was recently awarded $33,5M by the Canada First Research Excellence Fund and $8M by the Canadian Foundation for Innovation. Its mission is to become a world leader in research and education that takes advantage of the unique synergies offered by its existing strengths in quantum materials, quantum information, and quantum engineering.

A PhD and significant evidence of excellence in research, or evidence of strong potential for technological transfer of research projects are required. These postdoctoral positions are for a period of two years with possibility of extension. Outstanding candidates will be considered for our prized postdoctoral position of up to five years. We offer competitive salaries and comprehensive support including a research and travel fund, opportunities to invite visiting collaborators and to organize workshops and conferences. Postdoctoral Fellows are expected to work in close collaboration with one or ideally more than one faculty member, and will have opportunities to interact with leading theoretical and experimental physicists and engineers.

The physics department offers a dynamic research environment and encourages research crossing the boundaries between its existing research strengths. The 14 faculty of the department conduct research in the following areas: Superconductivity, strongly correlated electrons, topologically ordered materials, magnetism, quantum algorithms, quantum error-correction, superconducting qubits, quantum-enhanced metrology, solid-state spin qubits, photonics, and mesoscopic physics. In addition, members of the department maintain strong ties with engineers, whose expertise including micro-/nano-fabrication, cold electronics, single-electron transistors, packaging and integration. Many faculty are members of the following networks: RQMP (Regroupement Québécois sur les Matériaux de Pointe), INTRIQ (INstitut TRansdisciplinaire d'Informatique Quantique), Canadian Institute for Advanced Research (Quantum Materials and Quantum Information Processing programs). They have access to world-class computing resources and facilities for nanotechnologies, materials and device characterization.

For more information, please see:
http://www.usherbrooke.ca/physique
http://www.cfref-apogee.gc.ca/news_room-salle_de_presse/press_releases-communiques/2015/Universite_de_Sherbrooke-eng.aspx
http://www.rqmp.ca/
http://www.intriq.org/
http://www.cifar.ca/
http://epiq.physique.usherbrooke.ca

APPLICATIONS

Please send a CV, with a cover letter containing a short description of the research program. Arrange for three letters of reference to be sent directly. The material must be sent to

postdoc-application-physique@usherbrooke.ca
Candidates can contact any of the faculty members for enquiries.
Only material received on November 30th, 2015 or before will be considered.

The University follows the principle of equal access for women. Amongst equally qualified candidates, priority will be given to Canadian citizens and permanent residents of Canada. The University supports equal employment opportunity for women, visible minorities, members of first nations and the disabled.