



UDES

OPEN FACULTY POSITION

The Université de Sherbrooke is seeking candidates for two (2) full-time faculty positions, at the junior or senior level, in the department of physics of the faculty of sciences. Applicants should have a research profile in one of the three strategic research disciplines of the physics department (quantum materials, quantum information and quantum engineering) or else at the interface of these fields.

Université de Sherbrooke, a nationally and internationally renowned institution, is one of Québec's three main centers of higher education and research. Recognized for its educational innovations, practice-based programs, work-study programs and innovative approaches to sustainable development, the Université de Sherbrooke is also a leading partner of senior and regional governments in fostering social, cultural and economic development.

Université de Sherbrooke employs some 6,800 people. It hosts 31,000 students and 11,000 people enrolled at the University of the Third Age. It has more than 2,400 international students from 97 countries and territories. With 394 programs of study, it offers training in all cycles and in all major areas of human activity.

The University is committed to making a priority of these values as strategic factors of excellence. This commitment is stated in the University's Plan d'action d'équité pour les programmes interorganismes (2017–2022). The University invites all qualified individuals to apply, in particular, women, members of visible and ethnic minorities, Aboriginal peoples, and persons with disabilities under the Programme d'accès à l'égalité en emploi (PAEE). As a part of its effort to promote diversity, the university is committed to filling one of these two positions with a woman or a member of another group that is under-represented in physics. The selection tools can be adapted, with an assurance of complete confidentiality, to the needs of persons with disabilities who so request. The University also encourages individuals of all sexual orientations and gender identities to apply. Canadians and permanent residents will be given priority.

About the Physics Department and the Institut Quantique

Université de Sherbrooke's Institut Quantique, of which the physics department is a major component, is renowned for its world-leading research and education in quantum materials, quantum information, and quantum engineering. With recent major investments by the Canada First Research Excellence Fund and the Canadian Foundation for Innovation, a unique synergy is being developed between these three fields of research. The 15 professors of the Physics Department conduct cutting-edge research in the following areas: superconductivity, strongly correlated electrons, topologically ordered materials, magnetism, quantum algorithms and error-correction, superconducting qubits, quantum-enhanced metrology, solid-state spin qubits, photonics, and mesoscopic physics. In addition, within the Institut Quantique, members of the Department maintain strong ties with engineers and computer scientists, whose expertise includes micro-/nano-fabrication, cold electronics, single-electron transistors, packaging, integration, and quantum computing. Institut Quantique researchers are members of several Canadian and international networks, including the RQMP (Regroupement Québécois sur les Matériaux de Pointe), INTRIQ (INstitut TRansdisciplinaire d'Informatique Quantique), Canadian Institute for Advanced Research (Quantum Materials and Quantum Information Science), and the Laboratoire International Associé France-Canada on quantum circuits and materials. They have access to world-class computing resources and state-of-the-art facilities for nano-fabrication and characterization of quantum materials and devices.

PROFESSOR OF CONDENSED MATTER PHYSICS OR PHYSICS OF QUANTUM INFORMATION

Faculty of sciences
Physics Department
Sherbrooke Main Campus
Offer 03371

Main challenges and responsibilities

- Teaching at the undergraduate and graduate levels.
- Carry out world-class research increasing knowledge in quantum materials and quantum technologies.
- Supervision of M. Sc. and Ph. D. students.
- Involvement in the university community Service to the scientific community

Qualifications

- Ph. D. in Physics and postdoctoral experience.
- Strong pedagogical and communications qualities, and a serious interest in teaching and graduate student supervision.
- Ability to establish and maintain good interpersonal relations and productive collaborations.
- French is the common and teaching language at the Université de Sherbrooke. Applicants who are not fluent in French will nonetheless be considered provided they commit to enhancing their knowledge of French in their first year on the job. The new professor is expected to be able, within one year, to teach in French at the undergraduate and/or graduate level.
- His/her research program, either in experimental or theoretical physics, should reinforce or broaden the research areas already in place in the Physics Department.

For more information, please see:

www.usherbrooke.ca/physique
www.usherbrooke.ca/iq/
www.cfref-apogee.gc.ca
www.rqmp.ca
www.intriq.org
www.cifar.ca
epiq.physique.usherbrooke.ca
<https://www.lia-lcmq.org>

Review of applications will begin no later than **December 15, 2018** and will continue until the position is filled.

The application must contain your resume, a cover letter summarizing your research program (maximum 5 pages) and three (3) letters of recommendation.

Check our website for the full description of all our job opportunities, then submit your application online.

For this job, see **offer 03371**.