

CALL FOR PROPOSALS

In response to the call for proposals under the Canada Excellence Research Chairs (CERC) program, the Université de Sherbrooke (UdeS) is seeking candidatures to fill up to four professorships to hold a prestigious CERC.

These positions relate to the following UdeS unifying themes: **The Environment and Climate Change**; or **Innovative Materials / Processes and Quantum Science**; or **Digital Age: Intelligent Organizations and Training**.

Two faculties are taking part in the call for proposals: the **Faculty of Engineering** and the **Faculty of Science**. The faculty and departmental affiliation will be determined on the basis of the candidates' expertise and the research theme with which they identify among the three themes described below in the "Desired Profile" section.

CERCs are worth \$500,000 or \$1,000,000 per year for 8 years and are non-renewable.



CANADA EXCELLENCE RESEARCH CHAIR PROFESSOR

Faculty of Engineering and Faculty of Science
Offer 05289

- Regular full-time position.
- Location: Sherbrooke (Quebec, Canada).
- Deadline for receipt of completed applications: **April 7, 2022**, at 5:00 p.m.
- Candidates must be available between April 8 and May 2, 2022 for a possible interview.
- Anticipated start date: To be determined; at the latest by spring 2024.

UNIVERSITY'S COMMITMENT TO DIVERSITY, EQUITY AND INCLUSION

The UdeS will prioritize applications that enable it to strengthen its strategic commitment to equity, diversity and inclusion.

The UdeS is committed to prioritizing these values as strategic factors of excellence. This commitment is stated in its *Plan d'action d'équité pour les programmes interorganismes (2017-2022)*.

Also affirming its will to contribute to reconciliation and healing, the UdeS has been deploying, for the past few years, **various joint initiatives** with members of the First Peoples, to better understand and promote their realities and their cultural heritage.

The UdeS invites all qualified individuals to apply, in particular, women, members of visible and ethnic minorities, Indigenous peoples and persons with disabilities under the *Programme d'accès à l'égalité en emploi (PAEE)*. As such, the selection tools can be adapted to the needs of **persons with disabilities** who request them, in complete confidentiality.

The UdeS also encourages individuals of all sexual orientations and gender identities to apply.

For more information about the UdeS's commitment:

- www.USherbrooke.ca/edi (French)



DESIRED PROFILE

The candidates' main field of expertise must deal with one of the following themes:

Development of clean and sustainable technologies to fight climate change and reduce its effects: Candidates will have expertise in heterogeneous microtechnologies (microsystems developed for applications identified in Canada's Economic Strategy Table); or in renewable energy production and bioenergy (photovoltaics, electrochemical storage, hydrogen, biofuels); or in decarbonation of industrial processes (energy efficiency, carbon dioxide capture and transformation); or in green process design (sustainable processes, process intensification, reduction in the use of fossil fuels (green chemistry, biomaterials, green materials, etc.).

Interdisciplinary data science: Candidates will have expertise in the field of data science as it applies to several sectors with major societal issues such as population health, climate change, business decision support from a sustainable development perspective, and population aging. Desired candidates should demonstrate an aptitude for collaboration and interdisciplinary work, and expertise in the use of computational methods and/or data analysis with a complex structure that may encompass the disciplines of statistics, artificial intelligence, computer science, mathematics, biology, physics or complex systems.

Quantum science: Candidates will have expertise in the field of quantum science, focusing for example on the discovery and understanding of new quantum materials and devices; or the exploration of new approaches to quantum information exploiting the classical and quantum computational capabilities available at the Institut quantique; or the development of new quantum technologies through an integrated innovation chain for digital prosperity seeking to leverage fundamental knowledge. Desired candidates must have a strong interest in quantum physics and will be embedded in an interdisciplinary environment involving stakeholders in science and engineering, as well as management, humanities and law.

The CERC program was established by the Government of Canada to strengthen Canada's ability to attract the best researchers in the world to lead the way in advancing priority areas of science, technology and innovation likely to generate positive social and economic benefits for Canadians. The program places no restrictions on candidates with respect to nationality or country of residence. Members of the chairholders' teams may also be eligible for an expedited work permit. If an institution nominates a researcher who is working at a Canadian institution, it must explain the real national benefits of transferring that person from one Canadian institution to another. A priority is to support early career researchers, as this reinforces Canada's position as a world leader in developing talent and strengthening the research ecosystem.

Successful candidates will be selected by a selection committee according to the following criteria:

1. Academic and research record and leadership skills

Leading researchers whose achievements have had a major societal impact in their field (depending on the stage of their career) and who are recognized internationally as leaders. For Indigenous researchers based in Canada, the impact may be at the international, community, regional or national level. Also assessed are the quality and impact of the record of research achievement, including work done within the research community (e.g. participation in peer review committees, faculty recruitment committees, advisory committees, etc.).

Proven ability to attract and mentor a diverse group of students, trainees and research staff, and to create an equitable and inclusive research environment.

2. Quality of the research program

The extent to which the research program aligns with one or more of the Government of Canada's science, technology and innovation priorities for the CERC and the Canada First Research Excellence Fund.

The potential of the proposed research area, in line with world-leading research in this field.

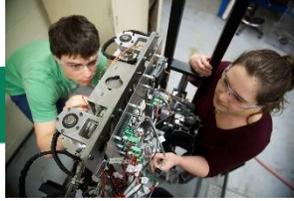
The extent to which the proposed research program enhances knowledge mobilization and translation so that all sectors of society (business, government, academia, non-profit organizations, etc.) benefit from the research and data generated.

The extent to which the chair fills a gap in existing expertise within the institution or in Canada.

The quality of the proposed research program in terms of how it incorporates the principles of equity, diversity and inclusion (GBA+ or SGBA+) at each stage of the research process (if applicable). The quality of the proposed research program in terms of how it allows to co-create and co-supervise research "by and with" First Nations, Inuit and Métis as researchers, trainees, partners and collaborators, and the inclusion of Indigenous knowledge (if applicable).

3. Structuring impact of the proposal on the strengths and strategic research priorities at the UdeS and on their positioning in Canada and globally.

Please visit the [CERC website](#) to learn more about the program and the eligibility criteria for candidates.



CAREER INTERRUPTIONS

In accordance with the diversity and equity objectives, career interruptions for parental, medical and family leave or due to the pandemic are considered in assessing the applications. Candidates are encouraged to identify such periods in their curricula vitæ or cover letters.

MAIN DUTIES

- Teach at all graduate and undergraduate levels.
- Supervise graduate and doctoral students.
- Develop fundamental and applied research activities.
- Take part in university life.
- Contribute to community service.

WORK CONDITIONS

The working conditions are governed by the collective agreement in effect. Regular, full-time position.

Anticipated start date: To be determined; at the latest by spring 2024.

The UdeS offers competitive salaries, a full range of employee benefits including a flexible group insurance program, an advantageous pension plan, a staff assistance program and work-life balance measures.

QUALIFICATIONS

- Compliance with the requirements of the CERC program.
- Publication record in international peer-reviewed journals, attesting to the excellence of the research record.
- Leadership qualities, initiative, and excellent abilities to communicate and interact effectively and harmoniously with internal and external partners.
- Experience in interdisciplinary, multidisciplinary or transdisciplinary research and in knowledge transfer will be considered an asset.
- Good ability to supervise graduate students.
- Ability to teach in French or to achieve this ability promptly.
- Candidates must be full professors or associate professors or be qualified to become full professors within two years of nomination. Candidates from outside the post-secondary education community must have the necessary qualifications to be appointed to similar positions.
- Strong interest in and aptitude for teaching and university pedagogy as well as research, development and innovation.
- Candidates wishing to be attached to the Faculty of Engineering must be members of the Ordre des ingénieurs du Québec (OIQ) or have the required qualifications to become members and be committed to do so as soon as possible.





APPLICATION PROCESS

The deadline for submitting applications is **THURSDAY, APRIL 7, 2022, at 5:00 p.m.**

We encourage you to submit your application electronically on our website by clicking on **POSTULER**.

Please attach the following documents (in English or French):

- 1) Your curriculum vitae;
- 2) A cover letter;
- 3) A research program proposal (5 pages) that includes its original contribution:
 - a) in line with world-leading research in this field;
 - b) to one or more of the Government of Canada's science, technology, and innovation priorities for the CERC program B
 - c) to knowledge mobilization and translation so that all sectors of society (business, government, academia, non-profit organizations, etc.) benefit from the research and data generated;
 - d) to existing expertise within the UdeS or in Canada
 - e) to the principles of equity, diversity and inclusion (GBA+ or SGBA+) at each stage of the research process (if applicable);
 - f) to the co-creation and the co-supervision of research "by and with" First Nations, Inuit and Métis peoples (if applicable).
- 4) A summary, not exceeding one page, of the top five career research contributions and their impact, in a language accessible to an interdisciplinary committee;
- 5) A summary, not exceeding one page, of the research program and its contribution, in a language accessible to an interdisciplinary committee;
- 6) Reprints of your most relevant recent contributions to the areas indicated.

The CERC recruitment uses a two staged process where interested applicants must first apply to the open job posting at the University. The successful applicant from that first stage enters the second stage, where they will co-develop an application with the University to the federal government funding program. The Université de Sherbrooke will provide substantial institutional support in the preparation and development of the application. Appointment as a CERC holder is contingent upon the applicant being awarded a Canada Excellence Research Chair by the Tri-agency Institutional Programs Secretariat (TIPS).

IMPORTANT INFORMATION: Candidates must be available between April 8 and May 2, 2022 for a possible interview.





ABOUT THE UNIVERSITÉ DE SHERBROOKE

A nationally and internationally renowned institution, the Université de Sherbrooke (UdeS) is the heart of one of Quebec's three major teaching and research centres. Located in one of the most dynamic university towns in the province, it proudly competes with the universities in major centres. Ranking among the top 15 research universities in Canada, it boasts the largest growth in research revenues over a 20-year period. It has made remarkable advances in research while remaining true to its values: sustainable development; equity, diversity and inclusion; and constant collaboration with its community and partners. Recognized for its sense of innovation, the UdeS is a leading partner of senior and regional governments in fostering social, cultural and economic development. It also stands out for its success in technology transfer as well as its initiatives in entrepreneurship and open innovation in collaboration with industry and society.

Highlights:

- \$205.2M in research revenues
- 23 research centres
- 78 research chairs
- 6 research institutes
- 1 CNRS international research laboratory
- 6,112 people involved in research
- 1,188 professors
- 3,314 graduate students and postdoctoral fellows
- 405 programs, 31,700 students
- Partner in the first two innovation zones designated by the Quebec government: Quantum Sherbrooke, in quantum science and its technological applications, in Sherbrooke; and Technum Québec, in digital technologies, in Bromont.
- Partner in the new Pôle universitaire de santé numérique de l'Estrie.

FOR MORE INFORMATION:

- [About Université de Sherbrooke](#)
- [Research Excellence at Université de Sherbrooke](#)
- [An exceptional working and living environment \(French\)](#)

