Call for candidates

Two Professors in Mechanical Engineering

N° 07199
Posting period: September 9, 2024 to October 31, 2024

JOB DESCRIPTION: Professor
LOCATION: Main Campus
STATUS: Regular
ADMINISTRATIVE UNIT:
Faculty of Engineering
Mechanical Engineering Department
SCHEDULE: Full time tenure-track position

As part of its plan to recruit several professors over the next few years, the Department of Mechanical Engineering of the Université de Sherbrooke (UdeS) is seeking applications for two regular professor positions. These are full-time tenure track positions in the Mechanical Engineering Department of the Faculty of Engineering

About the Faculty of Engineering

The UdeS Faculty of Engineering is a leader in education and applied research. Recognized for its dynamism in collaborative research, it stands out particularly in terms of technology transfer and concrete impacts on society.

It is also a faculty on a human scale, which favours rigorous and complete training of its students, particularly through the alternating study and internship program. In a friendly and highly collaborative environment, discovery and innovation are strongly encouraged.

To foster its long-term growth, the Faculty of Engineering is particularly focused on interdisciplinary initiatives and emerging fields. The Faculty of Engineering has several research centers as well as the Interdisciplinary Institute for Technological Innovation (3IT), a part of the Integrated Innovation Chain along with the Institut quantique (IQ) and the Centre de collaboration MiQro Innovation (C2MI).

Discover all the advantages of a career at the UdeS Faculty of Engineering, in the heart of the Eastern Townships!

About the Department

The faculty members of the Mechanical Engineering Department are active in the fields of audible and ultrasonic acoustics, aeronautics, bioengineering, sports engineering, product design and development, industrial energy efficiency, solar energy, advanced materials, mechatronics, microelectromechanical systems, shock wave physics, robotics, thermofluids engineering and vibrations. The Department has six research chairs and offers master's and doctoral programs that allow students to work in infrastructures that include numerous cutting-edge research laboratories, under the direction of internationally recognized researchers. The Department is distinguished by its facilities, which include coupled anechoic and reverberation chambers, wind tunnels, including an anechoic one, equipment for the characterization of materials and structures, ultrasound scanners, prototyping platforms for controllers, and several of its members are part of the 3IT, a unique infrastructure for micro-fabrication that includes 1,600 square meters of clean rooms, as well as its approach to teaching design and a rich entrepreneurial component, supported by numerous partnerships.

Expertise

Candidates will conduct fundamental and applied research in any mechanical engineering area and contribute to teaching in priority areas of aeronautics, materials and manufacturing, mechatronics, robotics, solid mechanics, and sustainable development.

Candidates from industry and/or with entrepreneurial experience are welcome. Applications are expected from both well-established individuals in academia or industry and from individuals at the beginning of their career. Candidates will be evaluated according to their respective backgrounds

Functions

- Teach at the undergraduate and graduate levels.
- Develop fundamental or applied research activities.
- Supervise graduate students.
- Participate in university life.
- Contribute to community service.

Requirements

- Hold a doctorate in mechanical engineering of in a relevant discipline.
- Have an interest in and aptitude for teaching, university pedagogy and skills development.

- Have an interest in research (disciplinary, interdisciplinary), innovation and knowledge transfer.
- Be able to plan, organize and develop a project independently.
- Demonstrate an ability to supervise graduate students.
- Have previously published in peer-reviewed journals or hold patents.
- Demonstrate the ability to establish and maintain good interpersonal relationships, collaboration and teamwork skills.
- Demonstrate leadership qualities, initiative and excellent ability to communicate and interact effectively and smoothly with various internal and external partners.
- Ability to comply with the requirements of responsible research conduct.
- Have the ability to **teach in French** or to achieve this ability within 2 years.
- Be a member of the *Ordre des ingénieurs du Québec* (OIQ) or have the qualifications to become a member and commit to becoming a member within 5 years.

The working conditions are governed by the collective agreements in force.

Regular, full-time, tenure-track position,

Anticipated start date: January 1, 2025.

Equity, diversity and inclusion

The Université de Sherbrooke (UdeS) values equity, diversity, equality and inclusion in employment within its community and invites all qualified individuals to apply, particularly women, members of visible and ethnic minorities, Aboriginal peoples and persons with disabilities in compliance with the Quebec Act respecting equal access to employment in public bodies. The screening and assessment tools can be adapted according to the needs of persons with disabilities who request them, and this, in complete confidentiality. The Université de Sherbrooke also encourages people of all sexual orientations and gender identities to apply. Priority will be given to Canadians and permanent residents. Learn more about equity, diversity and inclusion at UdeS.

Application process

The deadline for submitting applications is **October 31, 2024.**

Review of applications will begin on November 4, 2024 and will continue until the position is filled.

We invite you to submit your application electronically by clicking on the "Postuler" button.

Please combine the following in one pdf document: (please provide complete files)

1. Your curriculum vitae;
2. A letter of motivation;
3. A proposal for a research chair program (2 pages) describing the problem, objectives, methodological approach, links with your previous work, as well as the training of highly qualified personnel (students, research staff, etc.). The adequacy with the strategic plan of the Université de Sherbrooke and the Faculty of Engineering should also be explained. Funding opportunities (granting agency programs, companies, etc.), as well as the collaborations and networking envisaged should be described;
4. A description of your vision of teaching (2 pages) including the courses to which you could contribute and/or that you would like to develop and the teaching methods that you advocate;
5. A one-page text on equity-diversity-inclusion (EDI) that presents specific actions already taken or planned to promote EDI (i) in the training of new staff (recruitment, mentoring, career development); (ii) in the realization of research projects; and (iii) in the involvement in university life. We invite you to consult the guide to submitting an EDI text (in French). The Faculty is interested in individuals whose research, teaching, and community involvement demonstrate the importance it places on diversity in higher education;
6. Reprints from the most relevant recent contributions (maximum 3).

In addition, please have **three external referees** each send a letter of recommendation directly to the contact information below:

Dean of the Faculty in Engineering
Job Posting no 07199
Université de Sherbrooke
2500, boulevard de l'Université
Sherbrooke (Québec) J1K 2R1
doyen.genie@USherbrooke.ca