PhD Opportunity in materials and semiconductors Engineering

Record number : OPR-1168

Overview

RESEARCH DIRECTION

Richard Arès, Vice-doyen au développement & aux partenariats - FGEN Administration

INFORMATION

richard.ares@usherbrooke.ca

ADMINISTRATIVE UNIT(S)

Faculté de génie
Département de génie mécanique

LEVEL(S)

3e cycle

LOCATION(S)

Campus de Sherbrooke

Project Description

Are you looking to contribute to the future of revolutionary technologies in materials engineering and semiconductors? Join the team of Prof. Richard Arès, co-holder of the Umicore Research Chair, to develop defect-free heteroepitaxial wafers in an exceptional setting at the 3IT in collaboration with international industry leaders.

PhD Research Topic:

As part of the Umicore Research Chair in Semiconductor Nano-Membranes and Flexible Optoelectronics, and in collaboration with Teledyne Dalsa at the Université de Sherbrooke, this research aims to generate new knowledge in materials science and semiconductor engineering. The goal is to explore the PEELER process and develop defect-free heteroepitaxial wafers. The anticipated results could revolutionize the SWIR device industry, with potential applications in various innovative fields such as telecommunications, healthcare, and environmental monitoring.

Candidate Profile :

- Master's degree in materials engineering, electrical engineering, mechanical engineering, or related fields.

- Research experience in semiconductor engineering.

- Proven ability to work in a team and conduct independent research projects.

Work Environment :

The PhD research will be carried out primarily at the Interdisciplinary Institute for Technological Innovation (3IT) at the Université de Sherbrooke. The 3IT provides an exceptional environment, combining excellence in scientific research, entrepreneurship, and innovation.

Application Process :

Interested candidates are invited to submit their CV, a cover letter, and the contact information of two academic references to: Recru.Etudiants@Usherbrooke.ca

Discipline(s) by sector

Sciences naturelles et génie

Génie mécanique

Funding offered

Yes

Partner(s)

Teledyne DALSA, Umicore

The last update was on 24 July 2026. The University reserves the right to modify its projects without notice.