



## POST-DOCTORAL OPENING IN ACOUSTIC MATERIALS

The Groupe d'Acoustique de l'Université de Sherbrooke ([www.gaus.gme.usherbrooke.ca](http://www.gaus.gme.usherbrooke.ca)) is recruiting a post-doctoral fellow to join an R&D program on the development of innovative multi-functional and recyclable foams. The objective of this research is to develop products for acoustics, vibrations and thermal applications in a cost-effective way with recyclable thermoplastic porous/open-celled foams. The overall approach includes: (a) theoretical modeling and designing of acoustic foams with different cellular structure, (b) fabrication of prototype foams with extrusion technology and particulate leaching technique, (c) characterization of prototype foams on their cellular, mechanical, acoustical and thermal properties, (d) correlation of the foams' cellular morphology to their acoustic, vibration and thermal performance, (e) optimization of the design and processing parameters of the foams, and (f) fabrication and performance evaluation of the optimized foam product.

This research is done in collaborating with the Microcellular Plastics Manufacturing lab at University of Toronto ([www.mie.utoronto.ca/labs/park/lab/labhome.htm](http://www.mie.utoronto.ca/labs/park/lab/labhome.htm)) and the Advanced Materials Engineering lab at University of Bradford ([www.eng.brad.ac.uk/research](http://www.eng.brad.ac.uk/research)). The candidate will work on the acoustic part of the project (theoretical modeling, design and experimental characterization) with a team of students, research professionals and industrial partners, and will contribute to the applied and practical objectives of the program as well as its scientific objectives.

Applicants should have a strong, demonstrated background in acoustics and noise control. Training or experience in testing and modeling porous material properties is an asset. Fluency in either French or English is mandatory. Non French speaking candidates will be expected to learn French during their stay at Sherbrooke.

Accepted applicant will receive a scholarship in accordance with current NSERC standards ([www.nsec.ca](http://www.nsec.ca)). The position is for one or two years and is available immediately. Qualified candidates are invited to forward their application (with letter of motivation and CV) to:

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