

**PROFESSOR
NANOFABRICATION (AP 18-07)
INSTITUT NATIONAL DE LA RECHERCHE SCIENTIFIQUE (tenure-track position)**

Context and summary

The Institut national de la recherche scientifique (INRS) is the only academic institution in Québec (Canada) dedicated exclusively to research and training at the graduate level. The influence of our faculty, researchers, and students extends worldwide. In partnership with the scientific community and the private sector, we are proud to contribute to societal development through our discoveries and through the training of young scientists.

INRS – Énergie Matériaux Télécommunications (EMT) Research Centre would like to hire a new faculty in the area of Micro- and Nanofabrication. The successful candidate will collaborate with multidisciplinary research teams at the INRS Énergie Matériaux Télécommunications Research Centre in the areas of (but not limited to) electron-beam lithography, nanometer pattern transfer including plasma etching techniques, and fabrication and characterization of micro- and nanosystems e.g. for applications in photonics, optoelectronics, energy conversion and storage, solid state lighting, chemical and environmental sensing, biosensing and biomedical engineering.

The Centre hosts the unique major research Infrastructure of Nanostructures and Femtoscience (<http://lmn.emt.inrs.ca/EN/inf.htm>), which comprises the Advanced Laser Light Source, the Laboratory of Micro and Nanofabrication, and the Infrastructure for Advanced Imaging. The new faculty will work in an environment where about forty professors-researchers undertake leading-edge research and training in diverse areas of sustainable energy, advanced materials, ultrafast photonics, telecommunication systems and nanobiotechnology.

Main duties and responsibilities

- Develop an original and innovative program.
- Secure external funding from a variety of funding agencies, both provincial and federal, also involving various partners from the public and private sectors whenever needed/pertinent. Potential sources of funding include the Natural Sciences and Engineering Research Council of Canada (NSERC) and the Fonds québécois de la recherche sur la nature et les technologies (FQRNT).
- The candidate is expected to establish collaborations with research teams already in place, while developing or maintaining partnerships with groups outside the EMT research center. The ability to develop partnerships with the private sector is particularly valuable.
- Participate in teaching and training at the graduate level (both M.Sc. and Ph.D. students), as well as supervising post-doctoral fellows and research personnel.

Requirements

- A doctoral degree in a relevant discipline (physics, materials science, engineering, chemistry).
- An outstanding record of research accomplishments that will enable her/him to successfully develop a strong independent research program.
- The aptitude for teaching and supervising graduate students and other trainees.
- The ability to work in a multidisciplinary team and within research networks.
- The ability to collaborate with industrial partners.

Working language

French is the official language at INRS. Fluency in English is required. Candidates whose native language is not French are encouraged to apply. The Centre will provide them with all the resources necessary to facilitate their learning of the French language.

Salary

Salary and benefits are in accordance with the current collective agreement at INRS.

Workplace

Institut national de la recherche scientifique (INRS)
Centre Énergie Matériaux Télécommunications
1650, boulevard Lionel-Boulet, Varennes (Québec) J3X 1S2 CANADA
Varennes is located on the South Shore of Montreal.

Salary

Salary and benefits are in accordance with the collective agreement in effect at INRS.

How to apply

Interested applicants should send their application including a complete curriculum vitae, a copy of their three most significant publications, a three page summary of their research interests, a statement of teaching experience and philosophy, and the names and contact information of three referees, before January 24th 2020 indicating position number AP 18-07 by e-mail at concours@emt.inrs.ca or by mail to:

Director

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INRS subscribes to an equal access employment program and an equity employment program.
The Institute invites women, visible minorities, ethnic minorities, natives and people with disabilities to apply.
Priority will be given to candidates with Canadian citizenship or permanent resident.