

PROFESSOR SCIENCE AND PLASMAS APPLICATION (AP 18-05) CENTRE ÉNERGIE MATÉRIAUX TÉLÉCOMMUNICATIONS (tenure-track position)

Context and summary

Institut national de la recherche scientifique (INRS) is the only institution in Québec dedicated exclusively to graduate level university research and training. The influence of our faculty and students extends around the world. In partnership with the community and with industry, we are proud to contribute to the development of society through our discoveries and through the training we provide to a new generation of scientific, social, and technological innovators.

INRS would like to fill a new faculty position. The successful candidate will collaborate with the multidisciplinary research program at the INRS Énergie Matériaux Télécommunications Research Centre by contributing recognized expertise in theoretical and computational materials science, physics or chemistry.

Main duties and responsibilities

- Develop an original and innovative program of applied and fundamental research in plasma physics preferably (but not exclusively) oriented towards the following research areas;
 - Plasma interaction with organic matter (complex molecules, cells, tissues, cell treatment or destruction, reconstructive surgery, etc.)
 - Plasma for nanomaterials synthesis related to various fields of application (catalysis, energy conversion, photonic, 3D impressions, etc.)
- 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.
- 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

- Doctorate in theoretical physics, chemistry, materials science or related field, with specialization in experimental plasmas or assisted plasma processes;
- Relevant postdoctoral research experience would be an asset;
- Strong scientific publishing record illustrating leadership and innovation;
- Ability to work in multidisciplinary teams and networks as well as in collaboration with representatives of various agencies;
- Aptitude for basic and applied research, as well as multidisciplinary teaching and mentoring at the masters and doctorate levels;
- Entrepreneurial qualities and demonstrated ability to secure external research funding;
- Preference will be given to junior candidates. However, exceptional senior candidates may also be considered.

Working language

- French is the working language of the Institute. 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.

Workplace

Institut national de la recherche scientifique (INRS)
Centre Énergie Matériaux Télécommunications
1650, boulevard Lionel-Boulet
Varenes (Québec, CANADA) J3X 1S2

Varenes is located on the South Shore of Montreal.

Salary

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 two to three page summary of their research interests, a statement of teaching experience and philosophy, and the names and contact information of three referees, before **October 15th, 2018** indicating the position number AP 18-05 to:

Director
Centre Énergie Matériaux Télécommunications
Institut national de la recherche scientifique (INRS)
Centre Énergie Matériaux Télécommunications
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Institut national
de la recherche
scientifique

INRS is committed to employment equity and diversity.
INRS welcomes applications from women, visible minorities, ethnic minorities, indigenous people, and persons with disabilities.
Priority is given to Canadian citizens and residents.