



# PROFESSORS-RESEARCHERS

## DEVICE ARCHITECTURE – DESIGN – PROTOTYPING/FABRICATION – INTEGRATION (AP 15-02) CENTRE ÉNERGIE MATÉRIAUX TÉLÉCOMMUNICATIONS (four tenure-track positions)

### SUMMARY

Institut national de la recherche scientifique (INRS) is a graduate and post-graduate research and training university. One of Canada's leading research universities in terms of grants per professor, INRS brings together some 150 professors and more than 700 students and postdoctoral fellows in its centers in Montreal, Quebec City, Laval, and Varennes. Conducting fundamental research essential to the advancement of science in Quebec as well as internationally, INRS research teams also play a critical role in developing concrete solutions to problems facing our society.

The Centre Énergie Matériaux Télécommunications seeks to fill four tenure-track positions of professors-researchers in device architecture, device design, device prototyping/fabrication, and device integration. The successful candidates will join a vibrant environment where about forty professors-researchers undertake leading-edge research and training in diverse fields of energy, materials, photonics and telecommunications. The Centre is currently located on two sites, in the city of Montreal and in Varennes (South Shore of Montréal).

The Centre hosts unique major research facilities including the Advanced Laser Light Source (ALLS) and the Laboratory of Micro and Nanofabrication (LMN) that form the Infrastructure of Nanostructures and Femtoscience (<http://lmn.emt.inrs.ca/EN/inf.htm>), and the Microwave and Wireless Laboratories. In addition to the availability of these unique facilities, we offer competitive start-up packages.

We seek to hire the best candidates with advanced expertise in device architecture, device design, device prototyping/fabrication and device integration, as well as in device testing and optimization at the component-, link- and system-levels. Technologies of interest include electronic, optical/photonics, optoelectronic, radio-frequency (RF), and acoustic/ultrasound devices for applications aimed at, but not limited to: sensing; metrology; telecommunications; control and automation; energy conversion saving, transfer, and storage; health; transport; etc.

The chosen candidates are expected to establish collaborations with research teams already in place, while developing or maintaining national and international partnerships outside the Centre. They will have the opportunity to bridge our expertise and established activities in advanced materials, photonics and telecommunication and energy systems.

### REQUIREMENTS

- A Ph.D. degree in an appropriate field (electrical engineering, engineering physics or related).
- An outstanding record of research accomplishments that will enable her/him to successfully develop a strong, independent and externally funded research program.
- The aptitude for supervising graduate students and postdoctoral fellows and teaching graduate level courses.
- The ability to work in a multidisciplinary team and within research networks.
- The background and aptitude to collaborate with industrial partners and build long term partnerships.

### 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.

### PLACE OF EMPLOYMENT

Montréal or Varennes (South Shore of Montréal)

### SALARY

In accordance with the collective agreement in effect at INRS.

### HOW TO APPLY?

Interested applicants must forward, by email and registered mail, 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 philosophy, as well as the names and contact information of three referees, by September 30, 2015, indicating the position number AP 15-02:

**Dr. Federico Rosei, Professor and Director**  
Centre Énergie Matériaux Télécommunications  
1650, boul. Lionel-Boulet, Varennes (Québec) J3X 1S2  
[rosei@emt.inrs.ca](mailto:rosei@emt.inrs.ca)

**Note:** Only shortlisted candidates will be contacted. Interviews are expected to take place during the autumn term of the 2015-2016 academic year. These positions are to be filled in the 2015-2016 academic year.

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

[WWW.INRS.CA](http://WWW.INRS.CA)

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A RESEARCH UNIVERSITY



## TENURE-TRACK FACULTY POSITION MATERIALS ENGINEERING

The Materials Research and Education Center at Auburn University seeks an outstanding individual for a tenure-track faculty position in the Samuel Ginn College of Engineering. Candidates will be considered at the assistant, associate, and full professor levels. Candidates are sought that enhance strategic areas targeted by the department for growth. In particular, emphasis will be placed on applicants with a record of research accomplishments in: (1) biosensing, sensing materials, biomaterials, sensors for food safety; and (2) additive manufacturing.

The successful candidate will be expected to establish a strong individual research program in one of the above areas. Associate level applicants and higher must demonstrate an active nationally and internationally recognized program. The candidate will be expected to participate in large-scale, multidisciplinary team efforts in one of the above areas. The appointee will teach both undergraduate and graduate courses in materials engineering and develop innovative, cross-disciplinary instructional activities.

The successful candidate must be professionally trained in materials science and engineering and hold a PhD from an accredited institution. The intended start date is January 1, 2016. Applications will be accepted until the position is filled. The review of applications will begin **October 1, 2015**. A link to the posting and application can be found at <http://aufacultypositions.peopleadmin.com/postings/1003>.

The candidate selected for this position must be able to meet eligibility requirements to work in the United States at the time the appointment is scheduled to begin, and must continue working legally for the proposed term of employment.

Auburn University is located in the City of Auburn, which was recently ranked in the top 10 nationally of Best Small Cities for Education as well as one of the top 10 places to live nationally. The university was chartered in 1856 and has an enrollment of approximately 25,000 students. It is ranked in the top 50 of public institutions. The picturesque main campus covers 1,875 acres and includes the entire southwest quadrant of the city of Auburn.

Auburn University is an Affirmative Action/Equal Opportunity Employer. It is our policy to provide equal employment opportunities for all individuals without regard to race, sex, religion, color, national origin, age, disability, protected veteran status, genetic information, or any other classification protected by applicable law.

## ASSISTANT PROFESSOR in the Energy Cluster



As part of a larger investment to create a new Center for Energy Research, the School of Arts and Sciences at the University of Pennsylvania seeks to add faculty to our newly formed Energy Cluster spanning the natural sciences.

Following a first hire in Chemistry, we now invite applications for a tenure-track assistant professor whose primary research and teaching affiliation will be in one of the following departments: Biology, Earth and Environmental Science, or Physics & Astronomy. Exceptional senior candidates will be given consideration. The successful candidate will mount an innovative program of fundamental scientific research with impact on our societal energy challenges, and in doing so will forge collaborative links with Penn scientists and engineers involved in energy research.

Applicants must apply online at <http://facultysearches.provost.upenn.edu/postings/590>. Required application materials include: curriculum vitae with a list of publications, and a research and teaching statement that includes the candidate's perspective on how she or he fits into one of the three departments and identifies potential collaborative links with other natural science departments. Applicants should also submit the names and contact information for three individuals who will provide letters of recommendation. Review of applications will begin no later than **September 1, 2015** and will continue as long as the position remains open.

The School of Arts and Sciences is strongly committed to Penn's Action Plan for Faculty Diversity and Excellence and to establishing a more diverse faculty (for more information see: <http://www.upenn.edu/almanac/volumes/v58/n02/diversityplan.html>).

The University of Pennsylvania is an EOE. Minorities/Women/Individuals with disabilities/Protected Veterans are encouraged to apply.