

Polytechnique Montréal

PROFESSOR IN ENGINEERING PHYSICS - CHAIR IN QUANTUM PHOTONICS

Reference: 21-PR-1

Duration: Permanent, Full Time

Location : Montréal, Québec

Deadline date: March 7th, 2021

Founded in 1873, Polytechnique Montréal today welcomes over 9,500 students and relies on the expertise of over 1,500 professorial and professional staff with a wide variety of qualifications. Polytechnique Montréal promotes excellence and creativity, and the core values of integrity, collaboration, respect, openness, and diversity guide the institution's actions. Recognized as one of Montreal's best employers, it has received Silver Parity Certification from the Women in Governance organization, and offers excellent work conditions, in particular by fostering employees' work-life balance and well-being.

Polytechnique Montréal is deeply committed to employment equity, diversity and inclusion. Accordingly, Polytechnique encourages women, members of visible and ethnic minorities, Indigenous individuals, and persons with disabilities to apply. Accommodations can be provided based on candidate needs.

Applying to Polytechnique is a move to an enriching career, full of opportunity.

Located on Mount Royal, an exceptional setting in the heart of Montreal, Polytechnique is a world-renowned engineering university, excelling in cutting edge multidisciplinary and multi-sectoral research involved locally, nationally, and internationally, and is equally known for its top-tier training at all academic levels. An active advocate for sustainable development, Polytechnique has been certified Gold by the STARS organization. Polytechnique is known for its innovative approach, and its active role in technological, economic, and social development.

The Department of Engineering Physics at Polytechnique Montréal is recognized for the quality of its teaching and research activities, mainly in the fields of optics and photonics, advanced materials and devices, biomedical engineering, and energy engineering. The Department is responsible for a bachelor's engineering program (B.Eng.) as well as graduate programs in engineering physics, materials engineering, and energy engineering. It employs 22 professors and is home to 300 undergraduate and 130 graduate students. The Department is known for the quality and scope of its experimental and numerical research facilities. Its members are active in major research and innovation networks. For more information, visit: <https://www.polymtl.ca/phys/en/>.

POSITION SUMMARY:

Polytechnique is searching for a professor in engineering physics, with an excellent level of knowledge of physics and an extensive research experience in the field of experimental or theoretical engineering physics. The professor will actively participate in the development of the department's research activities, which continue to have significant impacts on several major socio-economic sectors, including aerospace, information and communications technologies, energy, environment and health.

RESPONSIBILITIES:

The successful candidate will be expected to carry out the duties of this position with a dynamic and creative approach. In particular, he or she will:

- demonstrate a commitment to excellence in teaching at both the undergraduate and graduate levels;
- supervise undergraduate and graduate students;
- carry out innovative research projects;
- obtain grants and contracts aimed at training highly qualified personnel through research work;
- publish the scientific results of their research;
- participate in the teaching and research activities of the Department;
- collaborate with other research teams within Polytechnique Montréal or with other institutions;
- contribute to the influence of Polytechnique Montréal in Québec and internationally.

AREA OF EXPERTISE:

The Department of Engineering Physics is looking for candidates with outstanding track records in the field of quantum photonics and its applications. Candidates must have a Ph.D. in engineering physics, or any related field such as physics, electrical engineering, chemistry or material science and engineering. The proposed research activities must be aligned with those of the Department or be related to any emerging research field relevant to engineering physics.

STARTING DATE:

As soon as possible.

QUALIFICATIONS:

The successful candidate must hold a doctorate in engineering, physics or in a related field. Preferably, he or she will hold a bachelor's degree in engineering, be a member of the Ordre des Ingénieurs du Québec or another organization recognized by Engineers Canada, or be admissible to become one. Candidates must demonstrate excellent research, training and teaching skills. Relevant industry experience is an asset. Given that the undergraduate teaching language is French, successful candidates are expected to become proficient in French, both spoken and written, before applying for tenure. Polytechnique Montréal will provide the necessary assistance and support for the successful candidates to become registered engineers and to learn French.

Polytechnique Montréal recognizes that career breaks such as maternity leaves, parental leaves, extended sick leaves, clinical trainings, as well as disabilities, can impact productivity and research achievements. The impact of these leaves will be taken into account in the recruitment process.

WORKING CONDITIONS:

This faculty position is tenure-track. Salary and benefits are set in accordance with the collective agreement in effect (<https://www.polymtl.ca/srh/relations-de-travail>). The latter includes arrangements for work-life balance and offers maternity, paternity and adoption leaves in addition to the Québec Parental Insurance Plan (<http://www.rqap.gouv.qc.ca/en>).

APPLICATIONS:

Candidates are invited to submit an application that includes:

- their résumé;
- a description of their area of expertise;
- a statement of their teaching and training objectives;
- a description of their proposed research objectives and program;
- official records of their diplomas;
- full contact information of three persons able to provide references;
- a few examples of work relevant to the position;
- three recent scientific contributions;
- teaching evaluations if applicable.

Applications must be submitted to:

Michel Meunier, Professor and Department Chair
Department of Engineering Physics
Polytechnique Montréal

To apply, please use the following link:

<https://rita.illicohodes.com/go/5ffca4773af0190591ecf97f/5f05eae54530fa7688f86f6b/en>

Examination of the applications will begin on March 7th, 2021 and will continue until the position is filled.

We encourage all qualified candidates to apply, particularly women, members of visible and ethnic minorities, Indigenous individuals and persons with disabilities. In accordance with immigration requirements, Canadians and Canadian permanent residents will be given priority.