

The newly established NSERC Multisectorial Industrial Research Chair in Coatings and Surface Engineering at École Polytechnique de Montréal invites applications for

**Graduate student (PhD or Master's levels)
and
Post-doctoral fellow positions**

Successful candidates will join the research activities on one or more of the following topics:

- Development of new low pressure plasma-based processes for coating fabrication – this includes HiPIMS, PECVD, PVD, hybrid and other methods, plasma diagnostics, plasma-surface interactions, thin film growth mechanisms, nanostructured coating systems, smart materials;
- Optical coatings – optical interference filters with tailored functional properties, environmental stability;
- Hard protective coatings – mechanical, tribological and corrosion properties, study of deterioration mechanisms;
- Coating system performance in industrial applications such as optics and photonics, aerospace and outer space, automobile, and energy generation and saving;
- Modeling of processes and material performance.

All projects are performed in close collaboration with well established industrial partners.

The candidates are expected to possess a strong background in physics, engineering physics, materials science and engineering, or equivalent. While joining a French speaking environment and a group with established international and industrial collaborations, they should demonstrate a high proficiency in written and spoken English, as well as excellent communication skills and the ability to collaborate within a diversified team.

Interested candidates are invited to contact:

Professor Ludvik Martinu (lmartinu@polymtl.ca) or
Dr. Jolanta E. Klemberg-Sapieha (jsapieha@polymtl.ca)

Department of Engineering Physics, École Polytechnique de Montréal
2900 Boul. Edouard-Montpetit, Montreal, Quebec, H3T 1J4