**Postdoctoral Position in Advanced STEM characterization of ceramic thin layers and polymer composite interfaces (12-18 months)**

The LMPS laboratory and the team MILA is looking for a highly motivated postdoctoral candidate specialized in transmission electron microscopy techniques. He/she will explore the structure and local chemistry of interfaces in two systems: thin multi-layer STO/PTO prepared by PLD (for negative capacitance) and PMMA/SiO2 nanoparticles. Different TEM-based techniques will be used to characterize interfaces with a focus on EELS and EDS techniques. *In-situ* TEM experiments will be developed to probe the dependence of materials in temperature, under electric field and/or mechanical loading.

The experiments will be conducted on the different equipments of the LMPS laboratory including (i) a FEI ThermoFisher TITAN3 G2 80-300 fitted with a Cs probe corrector, a Super-X windowless EDS detectors and an Enfinium EELS spectrometer, (ii) a FEI-ThermoFisher Helios Nanolab 660 FIB-SEM. *In-situ* TEM experiments will be achieved with the Protochips Fusion holder and the GATAN 671 traction-compression holder.

Required skills:

* PhD in Physics, Chemistry, Materials Science or other related areas
* Strong skills in STEM-based related techniques
* Knowledge in SEM and FIB

Interested candidates should send a CV (including a list of publications), a letter of motivation and the names of 2- 3 references. The position can start as soon as possible.

Contact

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