

Post-Doctorate Researcher Opportunity at the CERCPC – COPL – Uvalal:

Optical Metrology Lab Management - UV to mid-infrared fluorescence spectroscopy

The Canada Excellence Research Chair in Photonic Innovations directed by Prof. Younès Messaddeq has an immediate opening for a post-doctoral fellow (PDF) to work in several experimental projects involving optical fibers and optical spectroscopy from the UV to the mid-infrared. The PDF will work in a brand-new laboratory with state-of-the-art instruments, in a clean-room environment. In addition to the management of the optical metrology laboratory, his/her work will be focused on NIR and MIR photoluminescence spectroscopies, lifetime and PLQY, but can also include UV-VIS/FTIR absorption spectroscopy, Raman spectroscopy, refractive index measurements, IR fiber losses measurements, etc.

Our research team possesses the facilities and know-how to fabricate a wide range of optical materials in different forms (fibers, thin films, large bulks, etc.). Our group also has access to a set of software including SciGlass, COMSOL, ZEMAX, MATLAB, to cite a few. The laboratory is located in the Optics and Photonics Building at Université Laval, and benefits from multiple shared resources at the Centre for Optics, Photonics and Lasers (COPL). More information about the COPL and our group can be found at <http://www.copl.ulaval.ca/en/home/>.

Qualified candidates should have a solid background in optics/photonics, and experience with optical spectroscopy modalities and instrumentation. Desired skills are:

- Strong experimental skills and experience in laser spectroscopy: sources, monochromators, detectors;
- Familiarity with optics benches: optical alignment, laser safety, chemicals, lab. organization;
- Experience in conducting applied scientific research, data acquisition and analysis, communication of research in English, both oral presentations and journal publications;
- Ability to collaborate and work in a multibackground, multicultural team and across teams;
- Previous experience with optical fibers, thin films and basic instrumentation is an asset;
- Knowledge of LabView, MATLAB or other data acquisition software.

Applicants should submit a letter addressing the qualifications for this position, in addition to a CV, transcripts and references to Prof. Younès Messaddeq at younes.messaddeq@copl.ulaval.ca or to Dr. Yannick Ledemi at yannick.ledemi@copl.ulaval.ca.