



**POLYTECHNIQUE
MONTRÉAL**
TECHNOLOGICAL
UNIVERSITY



Postdoctoral Position Polytechnique Montréal: Laser Induced Fluorescence on Plasmas interacting with Lipids

Postdoc position in Montréal, Canada, at Polytechnique Montréal, Plasma Physics and Spectroscopy Laboratory (PPSL www.polymtl.ca/plasma). PPSL is directed by Stephan Reuter, Professor at the Department of Physics Engineering and Chair for plasma medicine at the TransMedTech Institute (www.polymtl.ca/transmedtech). Successful applicants should have expertise in laser fluorescence microscopy and spectroscopy, in biophysical models and have an interest or experience in plasmas for medicine.

You will work in an interdisciplinary project involving aspects of physics, biophysics, chemistry, and medicine. In this position, apart from your research project, you are expected to contribute to proposal and report writing, and publication of research in conferences and peer reviewed journals. The TransMedTech project offers competitive funding.

Your profile:

- You have experience in laser induced fluorescence (TA)LIF, laser fluorescence microscopy and/or biophysical model systems (lipids, liposomes, etc.)
- Ph.D. in physics, biophysics, chemistry, mechanical-, electrical-, biomedical engineering, or a related discipline.
- excellent theoretical and practical knowledge within one or more of the following fields: plasma physics and diagnostics, biomedical applications of plasmas, redox biological processes relevant for plasma medicine.
- outstanding scientific track record demonstrating well-organized design and execution of research.
- strong communication skills and ability to work independently as well as in a collaborative team.
- strong motivation to collaborate with researchers in the medical field.
- your excellent grades should allow you to apply for grants under Canadian funding schemes (funding conditions favor Canadian residents).

We will especially consider applications of members of equity seeking groups.

You will be employed at Polytechnique Montréal, a francophone engineering University in the heart of Montréal, Québec. You will interact with colleagues within Engineering Physics Department and the Institut Biomédicale of Polytechnique Montréal and Université de Montréal and the TransMedTech Institute and its collaborating research hospitals.

Application process in 2 stages: Please send your application in a **first application stage** as a **single PDF file** including full CV, University grades, a cover letter describing research interests and goals (max. 2 pages), full list of publications highlighting your most relevant peer reviewed works, contact information of three references. **Applications** should be sent to **Prof. Stephan Reuter** (stephan.reuter@polymtl.ca) using the **subject line** “*PPSL-Postdoctoral Fellow*”.

The successful candidate of the first stage must send a full application including a research project to the TransMedTech Institute (1st stage deadline: **5th of Sept. 2021**; 2nd stage full application deadline for the successful candidate: towards mid/end of Sept. 2021 (tba).