

Postdoctoral Fellow Position - Computational Mass Spectrometry
(Starting immediately or upon agreement)

We are seeking applications from highly motivated candidates for a postdoctoral position in computational mass spectrometry at the CHU Sainte Justine Research Center at the University of Montreal. The successful candidate will be a member of Etienne Caron's laboratory.

The Caron lab is interested in developing and applying next-generation mass spectrometry technologies (data-independent acquisition or SWATH-MS) to advance the field of cancer immunotherapy. The Caron lab uses proteomics, HLA peptidomics/immunopeptidomics and computational mass spectrometry approaches to identify protein biomarkers of response and relapse to checkpoint immunotherapy and to identify new forms of tumor neoantigens to design innovative anti-cancer vaccines for the treatment of refractory patients.

The Caron lab is co-founder of the international Human Immuno-Peptidome Project (<https://www.hupo.org/Human-Immuno-Peptidome-Project>) and we develop the SystemMHC Atlas project (<https://systemhcatlas.org/>) to enable "Big Immuno-Peptidomic Data" research. Our multidisciplinary research program is highly collaborative by nature and we aim to have a significant impact on patient care worldwide.

Qualifications:

We are seeking a highly-motivated individual with a solid background in computational sciences who is familiar with the different software packages and analysis pipelines available for mass spectrometry data analysis, such as PEAKS, TPP, Skyline, MaxQuant, Spectronaut or equivalent. Prior experience with mass spectrometry-based proteomics and/or immunopeptidomics is required.

- PhD in computer science, bioinformatics or a related field.
- Programming skills (Python, R, Java, C, C++) is a prerequisite.
- Ability to work independently and collaboratively.
- High proficiency in spoken and written English is required; French is a plus.

The position is initially for 1 year, with the possibility of further extension after positive evaluation. Salary and benefits according to University of Montreal standards.

To apply, please send your CV and a motivation letter outlining your expertise and future goals. Please also provide contact information for three references.

Send your application to:

Etienne Caron, PhD
CHU Sainte-Justine Research Center
Office 6.17.027
3175 Chemin de la Côte-Sainte-Catherine,
Montréal, QC H3T 1C5
Email: etienne.caron@recherche-ste-justine.qc.ca

