



THE UNIVERSITY OF BRITISH COLUMBIA

Michael Smith Laboratories



RESEARCH ASSOCIATE IN PROTEOMICS

The UBC Michael Smith Laboratories and the Department of Biochemistry & Molecular Biology at the University of British Columbia in Vancouver invites applications for a Research Associate (RA) position in proteomics to join the laboratories of Drs. Thibault Mayor and Leonard Foster. The successful candidate will work with our mass spectrometry core facility to **develop and apply new protein mass spectrometry methodology** to be integrated in the research programs of the two affiliated labs. The research programs focus on **protein homeostasis, host-pathogen interaction, and systems biology**. Methods to develop could include, but is not limited to, probing protein-protein interactions using proximity labeling and protein correlation profiling, single-cell proteomics, structural proteomics using cross linking and limited proteolysis, quantitative approaches using SILAC and DIA, and the analysis of post translation modifications and immunopeptidomes. The RA will join a small and dynamic team at the UBC Proteomics Core Facility in Michael Smith Laboratories and will be affiliated to both multidisciplinary research teams.

The successful candidate will have a completed a PhD and have a minimum of 3 years of additional experience as Postdoctoral Researcher in academia or Scientist in the private sector. The candidate needs to have a solid track record in research with first authored peer-review research articles. The candidate will have a hands-on experience with protein mass spectrometry using LC-MS/MS approaches and a strong expertise in biochemistry, computational biology, analytical chemistry and/or biophysics. Ideally the applicant should have experience handling all aspects of the workflow associated to a proteomic experiment including sample preparation and fractionation, the loading of the samples on the instrument and analyzing the data. The applicant should be familiar with current mass spectrometry instrumentation, their maintenance, and proteomics software. The position will be filled by a well-organized, enthusiastic team player with excellent communication skills, who enjoys lab work, creative trouble-shooting, is independent and who isn't afraid of trying new things.

Responsibilities will include:

- Develop a proteomic-based research program integrated to both affiliated labs;
- Implement or develop novel proteomics methods for sample preparation, data collection and analysis in collaboration with other researchers;



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- Work independently, and collaboratively with other researchers and technicians to perform a wide range of specialized and routine laboratory techniques in proteomics;
- Analyze mass spectrometry data and help optimize the computational platforms;
- Diligently document and record results of analyses and investigations;
- Communicate recent experimental results to the Proteomics Core Facility team and with both research labs;
- Contribute to the establishment of new automation sample preparation methods, installation of a new mass spectrometry instrument and associated data analysis pipeline, and optimize the performance of existing methods and instrument;
- Help operate and maintain basic laboratory instrumentation, liquid handler, HPLC and LC-MS/MS instruments;
- Read and keep up with scientific literature relevant to proteomics research;
- Train and/or supervise scientists in the affiliated labs on the proteomics platform;
- Write and/or participate to the writing of scientific articles and research grants;

The Research Associate will need to have excellent communications and presentation skills, be highly organized, have the ability to manage time effectively, and capable to multitask by working on multiple projects over a period of time. They will be required to have exceptional attention to details, strong documentation skills and able to meet deadlines, as well as be able to work well in an academic setting, with ability to work independently and collaboratively.

Interested candidates should submit a letter of application that highlights their experience in proteomics, detailed curriculum vitae including a list of publications, and contact details for 3 references. Application materials should be combined into a single PDF document and sent to both Drs. Thibault Mayor (mayor@mssl.ubc.ca) and Leonard Foster (foster@mssl.ubc.ca). Please include "RA in proteomics" in the e-mail subject line, incorrectly addressed applications will not be considered. Review of applications will begin immediately and continue until the position is filled. We will contact you only if invited for an interview.

The deadline for this application is December 10, 2021 but late applications will be considered until the position is filled. The proposed start date for this position is February 1st, 2022. The appointment will initially be for one-year and is extendable depending on funding availability. The salary will start at \$60,205 in accordance with the minimum standard for this employment group, and will commensurate with experience.

Equity and diversity are essential to academic excellence. An open and diverse community fosters the inclusion of voices that have been underrepresented or discouraged. We encourage applications from members of groups that have been marginalized on any grounds enumerated under the B.C. Human Rights Code, including sex, sexual orientation, gender identity or expression, racialization, disability, political belief, religion, marital or family status, age, and/or status as a First Nation, Metis, Inuit, or Indigenous person.

All qualified candidates are encouraged to apply; however Canadians and permanent residents will be given priority.