

**The Department of Biochemistry, Faculty of Medicine & Dentistry, University of Alberta,
Edmonton, Alberta CANADA**

Position Description:

The research groups of Drs. Howard Young and Joanne Lemieux at the University of Alberta seek a highly trained and motivated candidate for a postdoctoral fellow position. The broad interests of the labs are in membrane protein structure and function. We combine structural techniques such as macromolecular crystallography and cryo-EM with biophysical and biochemical methods such as membrane reconstitution and biophysical/functional assays to investigate the structural basis of membrane protein function and dysfunction in human diseases. Some of the research projects available involve techniques such as micro-electron diffraction (micro-ED) and cryo-EM of helical assemblies.

The laboratories have state-of-the-art equipment and facilities. For X-ray crystallography, we access to an in-house MicroMax-007 HF X-ray system from Rigaku, a Gryphon crystallization robot, and periodic access to the Canadian Light Source synchrotron facility. My laboratory is also associated with the Centre for Prions and Protein Folding Diseases, which houses a Tecnai F20 electron microscope with a Falcon 2 direct electron detector and Gatan cryo-holders and cryo-transfer systems.

Qualifications:

The candidates must hold a Ph. D. degree, be author of at least one first author publication and have a strong background in biochemistry or structural biology. Experience with basic molecular biology, protein expression, purification, and biochemical characterization are required. Prior experience in membrane protein biochemistry and bacterial/yeast expression systems for protein purification will be added advantages.

It is essential that the candidate be motivated and driven to achieve project goals. We promote a supportive team environment, and the ability to work as part of a cohesive group is important.

Location:

Edmonton is located in Alberta, Western Canada near the Canadian Rocky Mountains. The Canadian Rockies are one of the most beautiful regions of North America, with numerous opportunities for hiking, camping, fishing, canoeing, kayaking, and skiing. See the following URLs for additional information:

<http://www.canadianrockies.net/>

<https://www.travelalberta.com/ca/places-to-go/canadian-rockies/>

To apply:

Interested candidates can send an e-mail to Howard Young (hyoung@ualberta.ca) with a CV and a summary of previous research experience and future interests.

The University of Alberta is dedicated to equality, diversity, and inclusion in its training and employment programs.