



University
of Manitoba

Faculty of Science
Department of Microbiology

Graduate student positions in Biochemistry and Microbiology

The Prehna Lab is looking for enthusiastic MSc or PhD students to join the Department of Microbiology at the University of Manitoba, Canada (<https://home.cc.umanitoba.ca/~prehnag/>).

Our lab studies how bacteria communicate with their hosts, how they communicate with each other, and how they communicate with other micro-organisms. The supported graduate student positions are aimed at understanding the Type VI secretion system (T6SS) at the molecular level. A MSc or PhD student will research the role of accessory proteins that modulate the function of the T6SS(s) and how membrane proteins are loaded and secreted by the T6SS using structural, biochemical, and molecular biology techniques.

For more information about the lab, please check out our twitter and webpage:

Twitter: @prehnalab

<https://home.cc.umanitoba.ca/~prehnag/>

Qualifications

Applicants should possess or be near completion of a Bachelor's degree in the life sciences or a related discipline, and be interested in both biochemistry and microbiology. Some experience in molecular biology as well as protein expression and purification is desired but not required. Training in x-ray crystallography and NMR spectroscopy will be provided. All projects have the potential for training in cryo-EM. English language skills, the ability to work in a team, willingness to learn, and good organizational skills are required.

Application

Applications should include:

1. The applicant's CV
2. A one-page summary of their motivation for pursuing graduate studies
3. Contact details for at least two references

The starting dates are May 2022 or September 2022

We invite applications from all qualified individuals. The University of Manitoba is strongly committed to equity and diversity within its community and welcomes applications from women, racialized persons, Indigenous peoples, persons with disabilities, persons of all sexual orientations, persons of any gender identity or gender expression, and others who may contribute to the further diversification of ideas.

Please send application materials to:

Gerd Prehna, PhD
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About the University of Manitoba

The University of Manitoba (<http://umanitoba.ca/>) is located in Winnipeg, Manitoba and is Western Canada's first University. The University has large core-group of structural biology and biochemical researchers between the departments of Microbiology (<http://www.sci.umanitoba.ca/microbiology/>) and Chemistry (The Manitoba Group in Protein Structure and Function), access to the Canadian Light Source synchrotron, and comprehensive molecular biophysics instrumentation (500 and 600 MHz NMR, in-house XRD, cryo-3D TEM (TalosF200C), ITC, CD, DSC, nanoDSF, AUC, SEC-MALS, and MST).