

The Vaccine and Infectious Disease Organization (VIDO), Canada's Centre for Pandemic Research, is a world leader in infectious disease research and vaccine development for humans and animals. Located at the University of Saskatchewan in Saskatoon, Canada, VIDO is home to one of the largest and most advanced containment level 3 facilities in the world. To strengthen the preparedness for emerging infectious diseases we are currently expanding our infrastructure to include containment level 4 capacity, a GMP vaccine manufacturing facility, and a new animal housing facility. Our vision includes having the capacity to study any emerging disease in any animal model embracing a One Health approach to prevent emerging and re-emerging infectious diseases in humans and animals.

Position Summary

Dr. Bryce Warner, Principal Investigator, is seeking an outstanding graduate student to join his team studying virus-host interactions.

It is estimated that as many as two-thirds of all human pathogens have a zoonotic origin. Among these are several rodent-borne viruses that can cause severe and often fatal infections in humans, but do not cause overt disease in their reservoir hosts. Hantaviruses fall into this category. Pathogenic hantaviruses are often carried by murid and cricetid rodents and Sin Nombre virus (SNV, a North American hantavirus) represents the prototype hantavirus that has a well-studied relationship with its reservoir host species, the deer mouse. This reservoir host-virus relationship is the central model for our laboratory to study the viral ecology and virus-host interaction of a highly prevalent rodent-borne virus. We are seeking a motivated graduate student to help us better understand how deer mice that are infected with SNV respond to infection, and how responses to SNV are different than those to other viruses or other pathogens. The incoming student will have the opportunity to work in state-of-the-art facilities at VIDO and be enrolled in the Biochemistry, Microbiology, and Immunology graduate program at the University of Saskatchewan.

Qualifications

- BSc in microbiology, immunology, molecular biology, or related discipline (Masters Graduate Student) or MSc in microbiology, immunology, molecular biology, or related discipline (PhD Graduate Student).
- Hands-on experience with cell culture, and molecular biology techniques
- Team player with excellent oral and written communication skills
- Effective organizational and time management skills
- Experience in working with animal models.

Formal Requirements

The successful applicant will be requested to formally apply for enrolment as a graduate student at the Department of Biochemistry, Microbiology, and Immunology, College of Medicine at the University of Saskatchewan according to the rules stipulated in the guidelines for the Graduate Program at the College of Graduate and Postdoctoral Studies. The graduate student is expected to be affiliated to the graduate program in Biochemistry, Microbiology, and Immunology.

Financial Support

The candidate will be provided a stipend and will also be expected to apply for internal and external scholarships.

How to Apply

Interested candidates are asked to contact Dr. Warner directly (bryce.warner@usask.ca), including a statement of research interest, curriculum vitae (CV), unofficial transcripts, and contact information of three references.

Review of applications will begin immediately; however, applications will be accepted and evaluated until the position is filled. We thank all applicants for their interest; only those candidates selected for an interview will be contacted.

The successful applicant will be required to provide the following current verification(s) where 'Yes' is indicated below. Further information is available at: <https://careers.usask.ca/tips-for-applying.php#Howtoapplyforaposition>

Facility Access Screening including Criminal Record Check: Yes

Driver's License and Abstract Check: Not Applicable

Education/Credential Verification: Yes

Vulnerable Sector Check: Not Applicable

Living in Saskatoon

- One of the lowest costs of living among major cities in Canada (<https://www.saskatoon.ca/community-culture-heritage/new-saskatoon/life-saskatoon>)
- One of the sunniest places in Canada (<https://www.saskatoon.ca/community-culture-heritage/new-saskatoon/life-saskatoon>)
- A leading centre of culture and learning, Saskatoon is also one of the most socially engaged and most literate cities in Canada (<https://admissions.usask.ca/campus-life/housing.php#LivinginSaskatoon>)

For more information visit: [Discover Saskatoon](#)

For more information visit: vido.org

Note: The University believes equity, diversity, and inclusion strengthen the community and enhance excellence, innovation and creativity. We are dedicated to recruiting individuals who will enrich our work and learning environments. All qualified candidates are encouraged to apply; however, in accordance with Canadian immigration requirements, Canadian citizens and permanent residents will be given priority. We are committed to providing accommodations to those with a disability or medical necessity. If you require an accommodation in order to participate in the recruitment process, please notify us and we will work together on the accommodation request. The University of Saskatchewan's main campus is situated on Treaty 6 Territory and the Homeland of the Métis. We pay our respects to the First Nations and Métis ancestors of this place and reaffirm our relationship with one another. Together, we are uplifting Indigenization to a place of prominence at the University of Saskatchewan.