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. Aneesh Thakur, Principal Investigator, Laboratory of Vaccine Engineering and Immunology (LVEI) is seeking an outstanding Postdoctoral Fellow focusing on Tuberculosis (TB) vaccine development to join his team.

*Mycobacterium tuberculosis*, the causative agent of TB, enter the human body via the airways. One possible strategy to generate protective immunity in the lungs against TB is by vaccination in the respiratory tract. However, little is known about how to design safe TB vaccines for administration in the respiratory tract and how to achieve potent airway mucosal immunity against TB. The purpose of this project is to elucidate the essential design criteria for inducing protective pulmonary immunity by TB vaccines and identify mucosal immune correlates of protection. The project will combine approaches in immunology, bacteriology, formulation, and *in vivo* infection models to achieve the objectives.

**Profile**

We are looking for a highly motivated and enthusiastic scientist with the following competencies and experience:

**Essential experience and skills:**

- PhD (completed in the past three years) in Immunology, Molecular Biology, or another related discipline
- Hands-on experience with cell culture, mouse models, multi-parameter flow cytometry, and molecular biology techniques
- Team player with excellent oral and written communication skills
- Effective organizational and time management skills

**Desirable experience and skills:**

- Experience in animal experimental trials
- Experience in the isolation and digestion of murine tissues as well as cell isolation and phenotypic analysis
- Experience in *in vitro* transcription and RNA purification

Experience working with biosafety level 3 pathogens is an asset but not required. The selected candidate will have the opportunity to be trained in world class containment level 3 facilities and at Vaccine Development Centre, the GMP vaccine manufacturing facility at VIDO.

**Status:** 2-year term, with the possibility of extension

**Employment Group:** Post-Doctoral Fellows – PSAC

**Full Time Equivalent (FTE):** 1.0

**Salary Information:** The starting salary will follow the university standard for a post-doctoral researcher and will be commensurate with experience.
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

Interested candidates are asked to submit their application in one single application document (pdf file) including a statement of research interest, complete curriculum vitae (CV), and contact information of three references.

**Apply Now**

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.

**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.