

## CANADA RESEARCH CHAIR TIER 2 TEMPLATE FOR ADS

Posting Date: DD/MM/YY

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### **Assistant Professor/CRC Tier 2, Department of Internal Medicine, Rady Faculty of Health Sciences**

**Position #36297/36298**

The Department of Internal Medicine in the Rady Faculty of Health Sciences (RFHS) and Max Rady College of Medicine at the University of Manitoba invites applications for a Tier 2 Canada Research Chair tenured or tenured-track position at the rank of Assistant Professor, in the area of structural or spatial mass spectrometry-based proteomics, combined with innovative machine learning, commencing at the Manitoba Centre for Proteomics and Systems Biology on October 1, 2025, or a date mutually agreed upon. Salary and tenure status will be commensurate with qualifications and experience.

The Government of Canada has established the CRC program to enable Canadian universities to foster world class research excellence.

The Manitoba Centre for Proteomics and Systems Biology is a state-of-the-art open-concept research facility within the Department of Internal Medicine with high state-of-the-art analytical capabilities in protein mass spectrometry, and single cell transcriptomics in conjunction with other advanced 'omics' resources at the University of Manitoba (see <https://umanitoba.ca/health-sciences/research/manitoba-centre-for-proteomics-and-systems-biology> for an overview of major infrastructure and list of members). The Centre membership consists of basic and clinician scientists offering an exceptional collaborative environment for the development and translation of new approaches to the study of human disease. The Department of Internal Medicine offers a unique environment for collaborative research with clinical investigators who have established outstanding disease specific databases and biobanks associated with their clinical programs. Faculty members benefit from strong connections with scientists within the Manitoba Health Sciences Centre complex, including interactions with clinician-scientists and Indigenous health experts. The Rady Faculty of Health Sciences integrates health professional education with biomedical science research and graduate training programs, all within a health science campus that is highly integrated with research and teaching hospitals that serve the entire province. Abundant opportunities exist for faculty members in the department to collaborate across the wider biomedical science research community on campus, including the Child Health Research Institute of Manitoba, Paul Albrechtsen Research Institute at CancerCare Manitoba, Inflammatory Bowel Disease Clinical and Research Centre and Manitoba Multiple Sclerosis Research Centre. <https://umanitoba.ca/health-sciences/>

The position includes a laboratory start-up package and the opportunity to compete for additional equipment funding locally and via the Canadian Foundation for Innovation. The successful applicant will have access to core Faculty resources including state-of-the-art facilities for flow cytometry, live cell imaging, multiplex imaging, histomorphology and ultrastructural imaging, single cell transcriptomics, bioinformatics, humanized mouse models and others. AirSAFE – Canada's first multi-disciplinary research centre for biomedical, engineering, natural science and occupational health experts to study how inhaled pollutants impact health and disease –

and the PRAIRIE One Health Emerging Respiratory Disease Centre enabling pre-clinical vaccine testing against high-risk pathogens of concern, are currently under construction and the new recruit will have access to these facilities.

#### Responsibilities:

The successful candidate will be expected to establish an original, innovative, extramurally funded research program using cutting-edge structural and/or spatial proteomics approaches and AI for mapping dynamic, flexible proteins and protein assemblies in noncommunicable and/or infectious diseases, to reveal how conformational changes drive such pathologies – complementing existing research strengths and in collaboration with other researchers across the University of Manitoba. The Chair will be a core member of the Manitoba Centre for Proteomics and Systems Biology and will contribute to educating undergraduate, graduate and medical students through teaching and mentorship and participate in academic service activities to the department, college, and university.

#### Qualifications:

Applicants must be exceptional emerging scholars with less than 10 years of experience as an active researcher since obtaining their terminal degree (PhD and/or MD) at the time of nomination, with a focus on mass spectrometry-based protein analysis. Areas of interest include, but are not limited to, using crosslinking (XL) and hydrogen/deuterium exchange (HDX) or spatial mass spectrometry-based proteomics and innovative machine learning approaches to move beyond static snapshots and convert broad proteomic data into actionable, mechanistic insights that drive innovative therapies in both infectious and chronic diseases. Applicants must have a productive publication history in high quality, peer-reviewed journals and ability to secure competitive, extramural research funding. The successful applicant will have a demonstrated ability to conduct and lead original, innovative research working in a collaborative team environment, and will possess excellent communication skills. Teaching experience would be desirable.

A Tier 2 CRC Nomination will be submitted soon after a successful candidate has been selected. Chairs are awarded by the Tri-agency Institutional Programs Secretariat after a rigorous evaluation, and award decisions are expected in spring 2026, with the appointment starting May 1, 2026, or on a date mutually agreed to. The appointment will be conditional on a successful Canada Research Chair nomination.

Tier 2 Chairs are valued at \$100,000 per year for 5 years with an option to renew once. The proposed CRC aligns with the University's strategic research plan that identifies Biomedical Proteomics as a targeted area. Applicants who are more than 10 years from having earned their highest degree (and where career breaks exist, such as maternity, parental or extended sick leave, clinical training, etc.) will have their eligibility for a Tier 2 Chair assessed through the program's Tier 2 justification process. Please contact the UM's Office of Research Services ([researchgrants@umanitoba.ca](mailto:researchgrants@umanitoba.ca)) or more information.

The University acknowledges the potential impact that Career Interruptions and Personal Circumstances can have on an applicant's record of research achievement. We encourage applicants to explain the impact of any such interruption(s) in their submission. Measures will be taken to ensure that these leaves will be taken into careful consideration during the evaluation process. The CRC Nomination Selection Committee receives equity training that includes instruction on how to recognize and combat unconscious, implicit, overt, prejudicial and

other kinds of bias. The Canada Research Chairs website also provides full program information including details on eligibility criteria at: [www.chairs-chaire.gc.ca/program-programme/nomination-mise\\_en\\_candidature-eng.aspx](http://www.chairs-chaire.gc.ca/program-programme/nomination-mise_en_candidature-eng.aspx)

#### EQUITY STATEMENT

The University of Manitoba is committed to the principles of equity, diversity & inclusion and to promoting opportunities in hiring, promotion and tenure (where applicable) for systemically marginalized groups who have been excluded from full participation at the University and the larger community including Indigenous Peoples, women, racialized persons, persons with disabilities and those who identify as 2SLGBTQIA+ (Two Spirit, lesbian, gay, bisexual, trans, questioning, intersex, asexual and other diverse sexual identities). All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority.

The Rady Faculty of Health Sciences is committed to the social justice principles of equity, access & participation and to promoting opportunities in hiring, promotion and tenure (where applicable) for systemically marginalized groups who have been excluded from full participation at the University and the larger community including Indigenous Peoples, Black, racially marginalized communities, disabled persons and those who identify as 2SLGBTQIA+ (Two Spirit, lesbian, gay, bisexual, trans, questioning, intersex, asexual and other diverse sexual identities).

An inclusive, open and diverse community is essential to excellence and fosters voices that have been ignored or discouraged. To address the Rady Faculty of Health Sciences commitment to equity, access and participation, and in recognition of the underrepresentation of members of historically and currently excluded groups, we take proactive measures including implicit bias training for all hiring panels. We strive for diversity and cultural safety throughout the hiring process (hiring panels, short-list of candidates, interviews).

If you require accommodation supports during the recruitment process, please contact [UM.Accommodation@umanitoba.ca](mailto:UM.Accommodation@umanitoba.ca) or 204-474-7195. Please note this contact information is for accommodation reasons only.

The University of Manitoba is a driving force of innovation, discovery and advancement. Our momentum is propelled by our campus community – UM faculty, staff and students whose determination and curiosity shape our world for the better. Our teaching, learning and work environment is uniquely strengthened and enriched by Indigenous perspectives. With two main campuses in Winnipeg, satellite campuses throughout Manitoba, and world-wide research, UM's impact is global.

Discover outstanding employee benefits, experience world-class facilities and join a dynamic community that values reconciliation, sustainability, diversity, and inclusion. We are one of Manitoba's Top Employers and one of Canada's Best Diversity Employers. At the University of Manitoba, what inspires you can change everything.

The City of Winnipeg ([www.tourismwinnipeg.com](http://www.tourismwinnipeg.com)), located where the Red and Assiniboine Rivers meet, is recognized for its vibrant, multicultural community and diverse culture. The city, with a growing population of

more than 766,000, is home to internationally renowned festivals, galleries and museums, the historic Exchange District and The Forks, and ever-expanding research, education, and business sectors. From the Hudson Bay waters, across the farmland fields, to the pulse of the cities and towns, The Province of Manitoba's (www.travelmanitoba.com) people and places – its 100,000 lakes, 92 provincial parks, winding river valleys and storied prairie skies – inspire.

Application materials, including reference letters, will be handled in accordance with the Freedom of Information and Protection of Privacy Act (Manitoba). Please note that application materials may be provided to participating members of the search process.

**Application Deadline:** A review of applications will June 13, 2025 and will continue until the position is filled. Application materials should include:

- a cover letter concisely describing suitability for the position
- a curriculum vitae (including examples of significant research contributions)
- a research plan (3 page maximum) outlining an independent, innovative research program, and its potential to attract funding and contribute to student training
- a teaching statement (1 page) that documents the applicant's experience in and/or approach to training and mentoring diverse students and the candidate's teaching philosophy
- a personal statement including your positionality, demonstrated commitment and approach to issues pertaining to anti-racism and social justice (including principles of equity, access and participation) in the following areas: teaching, research and service
- the names and contact information of three referees; referees will only be contacted after written permission from the candidate

Send to:

Rene Zahedi, Ph.D., Chair, Search Committee

Tel: (204) 789-3639

E-mail: [intmedrecruitment@umanitoba.ca](mailto:intmedrecruitment@umanitoba.ca)

Please refer to position # 36297/36298 in the subject heading