

RESEARCH CHAIR IN NATURAL SYSTEMS AGRICULTURE FOR CLIMATE SOLUTIONS

ASSOCIATE PROFESSOR or FULL PROFESSOR (Tenured)

DEPARTMENT OF PLANT SCIENCE

FACULTY OF AGRICULTURAL AND FOOD SCIENCES

Position #32721

The University of Manitoba invites applications for a Research Chair in Natural Systems Agriculture for Climate Solutions, a tenured position at the rank of Associate Professor or Full Professor. The Chair's program, which will be funded from a base capital endowment investment, was created by the Jarislowsky Foundation and the UM, and is for a 5-year term (renewable once) in accordance with the Chairs and Professorships policy and procedure). The position is expected to commence January 01, 2023 or as soon as possible thereafter. The Chair's base salary and benefits will be covered by the Faculty of Agriculture and Food Sciences. The annual allocation from the Fund will be used to support the Chair stipend, teaching release costs, and research and knowledge extension expenses.

The Research Chair in Natural Systems Agriculture for Climate Solutions will join the [Department of Plant Science](#) of the [Faculty of Agricultural and Food Sciences \(FAFS\)](#), which promotes a collaborative and supportive workplace and is committed to advancing the University of Manitoba as a leader in sustainable cropping systems, agronomy, plant physiology, breeding and genetics. The Chair will be a leader who delivers excellence in scholarship, innovation, and knowledge translation in the area of climate-smart agriculture. The University of Manitoba's decades-long research in this area has already developed significant knowledge on natural systems agriculture, 4R nutrient management, perennial crops breeding, crop-livestock integration, organic agriculture, conservation agriculture, crop rotation, intercropping, cover crops, and soil health that will all play a role in the development of climate smart and regenerative agriculture. The Chair will empower the Department of Plant Science and other units in the Faculty of Agricultural and Food Sciences to undertake original research in climate-positive agricultural systems and translate new and current knowledge into action by farmers and policy makers. The Chair will have full access to FAFS' extensive research infrastructure and facilities, including the Ian N. Morrison Research Farm, a 406-acre facility located in Carman (70 km southwest of Winnipeg) and the Glenlea Research Station, a 1,000-acre facility (20 km south of Winnipeg), home to the [National Center for Livestock and the Environment](#). The Chair will also have access to the Faculty's extensive network of [long term agronomic studies](#) including Canada's longest running [organic cropping systems study](#) (est. 1992) and to the world's longest continuous monitoring study of N₂O and CO₂ emissions from an agricultural field at the [Trace Gas Manitoba GHG research station](#) (est. 2005).

Responsibilities:

The successful candidate will be expected to enhance their innovative and well-respected research program to develop climate-positive agricultural systems. The Chair will lead and facilitate original research and partnership efforts to help achieve the following goals: 1) foster knowledge translation initiatives that accelerate direct adoption of climate-smart agricultural best practices; 2) design and test more ambitious, transformative "Next generation" climate smart agricultural practices; 3) advance plant and soil management practices that result in higher soil carbon use efficiency and superior long-term soil carbon storage; 4) enhance carbon sequestration through breeding and utilization of perennials; and 5) develop and implement a functional, low energy use, circular bioeconomy through recycling and reusing of nutrients, and crop-livestock integration. The Chair will be expected to contribute to provincial and national strategies aimed at reducing greenhouse gas emissions in Canadian agriculture. In addition to funding available from the endowment, the Chair will be expected to secure funding from provincial and national sources. The Chair will have reduced teaching and service loads in order to

target these activities to areas related to climate-smart agriculture. This will involve targeted teaching and guest lectures and delivery of integrated systems themed courses at the graduate level. The chair will be expected to effectively engage with a range of stakeholders through community engagement and extension activities to mobilize knowledge, enable adoption, and drive change.

Qualifications:

The successful candidate must be a recognized leader in their field with a Ph.D. in agronomy, plant science, environmental sciences or related fields, and a proven track record demonstrating their capacity to lead an externally-funded research program to drive change in the area of natural agricultural systems with a strong knowledge-translation component. The successful candidate will have a demonstrated ability to collaborate in the design and testing of transformative climate smart agricultural practices. The candidate will have a highly productive track record of published peer-reviewed articles, a strong record of knowledge-translation, and effective mentoring and training of highly qualified personnel (undergraduate and graduate students). The candidate will have a proven track record of extensive producer and industry consultation, engagement and knowledge extension. The Chair will be expected to have a demonstrated commitment to Equity, Diversity and Inclusion (EDI) as it applies to high quality research output, student training and collegiality.

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 interruptions will be taken into consideration during the evaluation process.

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 Selection Committee will receive equity training that includes instruction on how to recognize and combat unconscious, implicit, overt, prejudicial and other kinds of bias.

If you require accommodation supports during the recruitment process, please contact 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.

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: December 2, 2022

Application materials should include:

- a cover letter outlining the candidate's qualification and how they fulfill the above-listed qualifications
- a curriculum vitae (may include examples of significant research contributions)
- a two-page statement outlining the innovative five-year research and knowledge translation envisioned for the Chair program
- a statement on the candidate's strengths and experiences in fostering Equity, Diversity and Inclusion
- a teaching statement that documents the candidate's experience in and approach to training and mentoring diverse students and the candidate's teaching philosophy
- names and contact information of three referees (will only be contacted with permission of candidate)

Send to:

Dr. Nazim Cicek
Search Committee Chair
University of Manitoba
Faculty of Agricultural and Food Sciences
66 Dafoe Rd, 256 Agriculture Building
Winnipeg, MB R3T 2N2
Email: agresearch@umanitoba.ca

Please refer to position # 32721