PEOPLE MAKE IT HAPPEN.

Faculty, Mechatronics Engineering Technology

Russ Edwards School of Agriculture and Environment
Full Time, Regular
Brandon, MB
Comp #114-24/25
Salary: $63,431 to $97,078 annually ($33.65 to $51.50 hourly)
(Educational Supplement: Masters $1.52/hour; PhD $3.03/hour)
Classification: Instructor

About Assiniboine

Assiniboine College has been providing exceptional learning experiences that have been transforming lives and strengthening Manitoba through applied education and research for more than 60 years. The Russ Edwards School of Agriculture and Environment is excited to be recruiting three faculty positions for our new Mechatronics Engineering Technology program.

Assiniboine College has been providing exceptional learning experiences for more than 60 years. For staff and students alike, Assiniboine offers unparalleled learning environments and responds well to the demands and requirements of the Manitoba labour market. Here, faculty follow the philosophy of 'learn by doing,' combining theory with hands-on learning inside classrooms, labs, kitchens, shops, fields and the college's Sustainable Greenhouse. We are an accredited college with the Province of Manitoba.

We offer more than 60 unique certificate, diploma and advanced credential programs across a variety of disciplines including culinary arts and hospitality, business, agriculture and environment, health and human services, trades and technology. We also deliver apprenticeship programming in a range of skilled trade disciplines.

Our Victoria Avenue East campus (Centre for Adult Learning - Brandon) and North Hill campus (Len Evans Centre for Trades and Technology, Manitoba Institute of Culinary Arts, and the Sustainable Greenhouse) are located in Brandon. Our Parkland campus, which also includes a Centre for Adult Learning, is located in Dauphin, Manitoba. Our Portage la Prairie campus is in Southport, Manitoba and offers the Practical Nursing Program. At our Winnipeg campus, we deliver our Practical Nursing program and continuing studies courses.

The Russ Edwards School of Agriculture and Environment

With an entrepreneurial spirit and commitment to a strong Manitoba, the Russ Edwards School is home to Manitoba's leading programs in agriculture and environment, encompassing a 'field to fork' philosophy and integrating the technology to keep up with the evolving industry.

With the changing landscape of our agriculture and food processing industries, the College understands that labour shortages in these key sectors directly affect the economic viability of our region and our province. Increased mechanization and automation of the agricultural sector and of food processing facilities will offset the challenge presented by the need and cost to recruit and retain suitable labour.

To address the labour and productivity challenges in this key economic sector, we are excited to launch our new Mechatronics Engineering Technology 3-year diploma in Fall, 2025.
Automation and mechanization have real potential to increase productivity and output through better precision as well as to reduce waste and improve efficiencies, leading to activities becoming more integrated, data-driven and technologically advanced with corresponding needs for different workplace skills and competencies.

Applied Research

Applied research expertise in the Russ Edwards School centres around crop sustainability and productivity for growers, crop pest management, soil health, plant and animal protein for human consumption, and clean technologies for the environment.

Research programs are prioritized to respond to industry and regional challenges in food production, and to fill gaps in Manitoba's applied research sector through innovations in agriculture and food systems sustainability. Initiatives are typically collaborative in nature, bringing together local institutions and industry partners interested improving food self-reliance; minimizing environmental impacts; improving the economic viability of farms and ancillary businesses; contributing to economic growth through increased production; and value-added processing aimed at the global export market and strengthening food systems resilience.

Research faculty at Assiniboine are recipients of numerous prestigious grants, some of which include funding from The Natural Sciences and Engineering Research Council of Canada (NSERC); the Canadian Agricultural Partnership (a federal-provincial initiative, Govt. of Canada); Ag Action Manitoba; Employment and Social Development Canada, Agriculture and Agri Food Canada, and the Shastri Indo Canadian Institute, Canada.

The Prairie Innovation Centre

Within the Russ Edwards School of Agriculture and Environment, the Prairie Innovation Centre for Sustainable Agriculture is a one-of-a-kind Canadian college project that will bring together collaborative learning spaces, applied research labs, and multipurpose spaces that will serve both the college community and agriculture industry. The Centre will offer new programs for labour market development, applied research and industry engagement.

The Prairie Innovation Centre, which will be located on the college's North Hill campus in Brandon, will allow the college to continue expanding capacity in agriculture-related programming from 300 to more than 800 students annually. By creating enhanced and expanded agricultural training capacity, the Centre will enable the agriculture sector to reach its full potential in the Canadian and Manitoban economy.

The Centre will be a hub for collaboration, innovation, and incubation. Assiniboine will be recognized as your go-to-problem-solvers for agricultural-related practical challenges.

Key Responsibilities:

- We are looking for someone who loves to teach and communicate, wants to share their knowledge, and is committed to creating exceptional learning experiences.
- Excellent communication and organizational skills
- Eager to lead industry-driven applied research projects
- Solid understanding or an ability to learn about Indigenization and decolonization of curriculum, classroom instruction, assessment, student advising and group facilitation.
- Ability to work effectively in a team environment.

Qualifications:

- Graduate degree required in *listed areas or related combination of education and experience.
    - Electrical Engineering-Automation and Robotics
    - Mechanical Engineering
- Canadian Professional Engineering (P.Eng.) designation preferred.
- Experience: minimum of five (5) years of post-secondary teaching experience is preferred.
    - Minimum five (5) years of relevant industry experience within the last ten (10) years in Mechanical Engineering or Electrical Engineering – Automation and Robotic Design in an advanced manufacturing environment.
- Industry-driven applied research experience or aptitude is preferred.

Skills:

- For Electrical Engineering-Automation and Robotics:
    - Understanding of the following areas: Automation, Robotics, Computer Aided Design, Control Systems, Electrical Instrumentation, Motor and Drives, Programmable Logic Controls.
    - Working knowledge of Siemens Totally Integrated Automation Portal (TIA Portal) and Factory Talk by Rockwell Automation is required.

- For Mechanical Engineering:
    - Understanding of the following areas: Automation, Robotics, Computer Aided Design, Control Systems, Motor and Drives, Fluid Mechanics, and Industrial Automation.
    - Working knowledge of Siemens NX, and Autodesk SolidWorks

- For all three faculty positions:
    - Demonstrated exceptional presentation, communication, organizational, and interpersonal skills are required and demonstrated ability to work independently and collaboratively as part of an academic team.
    - Strong relationships with prairie and/or agriculture-related industry contacts and network connections are an asset.

This competition will remain open until the position is filled.

Discover full details about the position please see the attached job description.

Why Join Us?

Working Together:
Be part of a collaborative and inclusive environment that values teamwork and positive employee relations. Together, we paddle collectively toward our mission.

Growing Together:
We invest in our employees' future through succession planning, forward-looking recruitment, and supportive development programs. At least 4% of payroll is dedicated to staff and professional development.

Forward Together:
As we navigate rapid technological changes, we prioritize resilience and wellness among our faculty and staff, helping them become the leaders Manitoba

Our Principles for Continued Success:
- Creativity: We foster an environment that supports and unleashes the creativity of our faculty and staff.
- Collaboration: Teamwork, purposeful connections, and community building are critical to achieving our collective potential.
- Courage: Our faculty and staff embrace their roles as community leaders, boldly taking risks to build a strong future for Manitoba

Commitment to Diversity:
Assiniboine College is committed to creating a barrier-free environment that emphasizes the value of diversity and promotes full participation. We welcome applications from all qualified candidates who are legally entitled to work in Canada, including indigenous peoples, persons of all abilities, members of visible minorities, all genders, and sexual orientations.

How to Apply:

If you are interested in this career opportunity, please email your resume and cover letter with reference to this competition to careers@assiniboine.net. We thank all applicants for their interest; only those selected for further consideration will be contacted.

Assiniboine College is privileged to provide learning opportunities on the lands of the Dakota Oyate, Nakoda Oyate, Ininiwak, Nehethowak, Nehiyawak, Anishininewuk, Denesuline, Anishinaabeg, and the National Homeland of the Red River Métis.

For accommodations or alternative formats, contact careers@assiniboine.net or 204 725 8729.