Selkirk College
Selkirk Innovates

POSITION DESCRIPTION

Position Title	Research Intern - Induction Heat Treatment Quality Control, Mechanical / Materials Focus
Department/School	Selkirk Innovates
Reports to	Jason Taylor, Department Head and Research Lead
Employee Group	N/A
Pay Grade	$21.97/hr + 4% in lieu (currently enrolled students) $23.97/hr + 4% in lieu (recent graduates)
Total Hours	Approximately 400
Work Term	3-6 months with possibility of 400-hour extension, based on performance and funding availability.
Start Date	Anticipated start May 4, 2026
Location	Selkirk Technology Access Centre (STAC), Trail BC
How to Apply	Submit resume and cover letter as attachments to jtaylor@selkirk.ca by April 6, 2026

POSITION SUMMARY

This internship is specifically designed for students enrolled in 4th year or recently graduated from Computer Science, Artificial Intelligence, Data Science, or a related field.

The intern will work with Selkirk Innovates, the Applied Research and Innovation division of Selkirk College, specifically the advanced manufacturing researchers at the Selkirk Technology Access Centre (STAC).

This is a Mitacs Accelerate Internship supporting STAC researchers on an industrial applied research project in partnership with DROP Sprockets. The intern will contribute to the development of improved quality control and validation methods for induction heat treatment processes used in manufacturing power transmission components. The position will support the development of structured testing procedures and process monitoring approaches that link mechanical performance with manufacturing conditions.

The successful applicant will be required to enroll in Selkirk Innovates' Applied Research and Innovation Internship training program, which currently does not have a fee.

COMMITMENT TO INCLUSIVE EXCELLENCE

The diversity of our workforce is at the core of our innovation and creativity and strengthens our research and teaching excellence. In keeping with our strategic commitment to Diversity and Inclusion, Selkirk College strives to embody the values of respect, collaboration and diversity, and has a strong commitment to employment equity.

Selkirk Innovates seeks qualified candidates who share our commitment to equity, diversity and inclusion, who will contribute to the diversification of ideas and perspectives, and especially welcomes applications from First Nations, Métis and Inuit peoples, members of racialized communities ("visible minorities"), persons with disabilities, women, and persons who identify as 2SLGBTQ+.

MAIN DUTIES AND RESPONSIBILITIES

- Assist with mechanical testing and process data collection
- Support development of testing protocols and validation procedures
- Contribute to project documentation and technical reporting
- Perform other related duties as requested by the supervisor
- Complete Mitacs Accelerate Internship paperwork and reports

SKILLS, KNOWLEDGE AND ABILITIES

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- Interest in materials, manufacturing processes, or metallurgy
- Demonstrated ability to work independently and collaboratively in a research environment
- Strong analytical and documentation skills
- Excellent attention to detail
- Strong written communication skills
- Excellent interpersonal, time management, and organizational skills
- Proven ability to complete tasks under pressure and be flexible
- Ability to prioritize work and meet deadlines

QUALIFICATIONS

- Currently enrolled in final year or recently graduated from Mechanical Engineering, Materials Engineering, or related field
- Experience with manufacturing processes or materials testing is an asset