

POSITION DESCRIPTION

Position Title	Research Intern - AI-Assisted Quality Control for Induction Heat Treatment
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
Start Date	Anticipated start in May 2026, pending identification of qualified candidate
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 support the development of an AI-assisted inspection and monitoring system for induction heat-treated components used in industrial manufacturing.

The project will focus on developing image-based quality control tools that assist operators in evaluating heating coverage and identifying potential defects during production.

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 image data collection and dataset development
- Support development and testing of AI-based inspection tools
- 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

- Interest in artificial intelligence, computer vision, or data analysis

- Demonstrated ability to work independently and collaboratively in a research environment
- Strong problem-solving and technical learning ability
- 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 Computer Science, Artificial Intelligence, Data Science, or related field
- Experience with programming or machine learning tools is an asset