Job Posting:175337 - Position: W26 Software Analyst Intern (AI, Computer Vision, Deep Learning, Python, C++) 175337B

Co-op Work Term Posted:	2026 - Winter
App Deadline	11/20/2025 09:00 AM
Application Method:	Through Employer Website
Posting Goes Live:	11/13/2025 01:05 PM
Job Posting Status:	Approved

ORGANIZATION INFORMATION

Organization	Hitachi Ltd.
Country	Canada

JOB POSTING INFORMATION

Placement Term	2026 - Winter
<b> Job Title <b>	W26 Software Analyst Intern (AI, Computer Vision, Deep Learning, Python, C++) 175337B
Position Type	Co-op Position
Job Location	Toronto, ON
Country	Canada
Duration	8 or 12 months
Work Mode	Hybrid
Salary Currency	CAD
Salary	0.0 per hour for 0 Major List

Job Description

Job ID: R1010833-HRG
Location: Toronto, Ontario, Canada
Job ID: R1010833-HRG
Date Posted: Oct 24, 2025
Segment: Green Energy & Mobility
Business Unit: Hitachi Rail
Company Name: Hitachi Rail GTS Canada Inc.
Profession (Job Category): Engineering & Science
Job Type (Experience Level): Internship
Job Schedule: Full-time
Remote: No

About Us

A career at Hitachi Rail will help create a legacy. With operations in every corner of the world, our work goes to the cutting-edge of digital transformation and technology. From the multi-cultural strength of our global organisation to the sustainable and innovative ways we work to bring people together, there's something for everyone to get stuck into. And that's where you come in.

Toronto, Ontario, Canada (Hybrid)

Internship Duration: January 2026 - August or December 2026 (8-12months)

Job Description

We are currently hiring for a Software Analyst Intern to join us for 8-12 months internship position (beginning January 2026) available in our Research and Technology Department.

As a part of the Research and Technology (R&T) team, you bring your knowledge in robotics, computer vision, fusion algorithms,

point cloud processing or machine learning to build, test and review next generation solutions for the transit market. You will be involved in research and development to create "proof-of-concept" products for the urban rail signaling domain.

Key Accountabilities
• Participate in the analysis of complex, real-time, autonomous system use cases
  Understand the goal of a research project and support its execution
• Analyze lab and field test results
• Assist with multiple sensors and the latest software algorithms to control complex, safety critical systems
• Become a highly productive team member and team player

Thank you for your interest in Hitachi Rail. If your application is of interest, we will be in contact. Please do not hesitate to discover more about us and our latest jobs at https://www.hitachirail.com/careers .

At Hitachi Rail, there is a place for everyone. We welcome and value differences in background, age, gender, sexuality, family status, disability, race, nationality, ethnicity, religion, and world view. It is our commitment to create an inclusive environment - we are proud to be an equal opportunity employer.

We would be delighted if you would be one of our followers at https://www.linkedin.com/company/hitachirail .

Job Requirements

Key Requirements
• The successful candidate should be working towards a bachelor's or master's degree from an accredited university or college in Computer Science, Electronics/Electrical Engineering, Mechanical Engineering , or a related field.
• Completion of the first year of your undergraduate degree, or currently pursuing a master's degree.
• Software development experience in C++, Python
• Be familiar with minimum set of Python libraries (numPy, pandas, scikit)
• Practical experience of object oriented techniques, concurrency, parallelism, multithreading, socket programming in a Linux environment
• Knowledge of modern software engineering practices, methods and tools
• Experienced GIT user required
• Knowledge of Docker and containerization
• Knowledge of python versions and virtual environments
• Familiarity with Linux command line
• Experience with text data preprocessing
• Knowledge of LangChain/Ollama frameworks
• Demonstrated ability to follow instructions to deliver a quality technical solution on-time
• Experience with AGILE workflow, JIRA
• Excellent teamwork record
• Possess good written and oral communication skills
• The ability to work 40 hours a week in a hybrid environment for the duration of the internship is essential. At least **2 days a week in the office.**

Preferred Qualifications:
• Co-op student available for an 8 to 12-month term , with at least one additional quarter or semester of coursework remaining after the completion of the internship.
• Previous coop work experience is an asset. Relevant school projects may be considered.
• Good knowledge and experience in Machine Learning and Computer Vision , such as sensor fusion, Supervised / unsupervised learning, online learning, classic computer vision algorithms, feature extraction, state estimation
• Knowledge of point cloud processing (Object detection, tracking, matching, SLAM)
• Experience with relational databases such as SQL, PostgreSQL and python integration
• Hands-on experience with sensors, microcontrollers programming
• Experience with LANs and programming for networked and serial data communication types
• Experience with AI techniques such as RAG and deep learning fine tuning
• Knowledge of C++ GPU programming, CUDA, Python GPU processing and Library usage
• Experience with UI/UX design
• Hands-on experience with LLM evaluation (frameworks and dataset creation)
• Good leadership skills and experience

Citizenship Requirement   N/A

APPLICATION INFORMATION

Application Procedure   Through Employer Website

Special Application Instructions

Please click the "I intend to apply to this position" button on SCOPE and also submit your application via the employer's website.

Application Link:

https://careers.hitachi.com/jobs/16953889-software-analyst-intern-ai-computer-vision-deep-learning-python-c-plus-plus

Applications are accepted on a rolling basis and the posting may be expired at any time by the employer as submissions are received.

Students should submit their applications as soon as they are ready.