

Job Posting:172657 - Position: W26 Embedded Software Engineer 172657

Co-op Work Term Posted: 2026 - Winter
App Deadline 09/12/2025 09:00 AM
Application Method: Through UBC Science Co-op
Posting Goes Live: 09/04/2025 03:04 PM
Job Posting Status: Approved

ORGANIZATION INFORMATION

Organization NZ Technologies Inc. (NZTech)
Website <https://www.nztech.ca/>
Address Line 1 202-1401 W Broadway
City Vancouver
Postal Code / Zip Code V6H 1H6
Province / State BC
Country Canada

JOB POSTING INFORMATION

Placement Term 2026 - Winter
** Job Title ** W26 Embedded Software Engineer 172657
Position Type Co-op Position
Job Location Vancouver, BC
Country Canada
Duration 8 or 12 months
Work Mode In-Person
Salary Currency CAD
Salary 3500.0 per month for 40 Major List
Salary Range \$ 3500-4000

Job Description

Job Brief:

Enthusiastic student trained in the fields of software systems with a passion for solving real industry problems with the use of sensors, embedded systems, and wireless M2M. This student will be joining our team in our Vancouver office full-time.

Duration: 8 months, with possible extension to 12 or 16 months

Background:

Established in 2009, NZ Technologies Inc. (NZTech) works in the field of Human-Machine Interaction (HMI) with a specialization in 3D Touch™ sensors, 3D machine vision, and learning algorithms. NZTech's proprietary software and hardware are designed and built in-house at our office in Vancouver, BC. Our core products, TIPSO™ and HoverTap™ are proprietary technology that has evolved from the technical expertise and unique industrial experience of our engineering team, with significant feedback from our team of experienced advisors from the medical field and industry partners.

TIPSO™ is an award-winning Human-Machine Interaction (HMI) line of products for Interventional Radiologists and surgeons who need to efficiently interact with radiology images in the Operating Room (OR). It is designed by doctors, for doctors, to fit

seamlessly in their challenging work environment. NZTech is continuously working with VGH and other hospitals to research, develop, and deploy new sensing technologies in the Operating Room to aid doctors in their critical work.

HoverTap™ is a new way to interact with displays using 3D Touch™. Our team works on developing novel solutions that utilize our 3D Touch™ technology to craft new interactive experiences for our users. HoverTap™ has been integrated or retrofitted into laptops, tablets, store kiosks, and elevators in numerous fields and applications. The HoverTap™ sensor allows for simple hand-wave and finger-point interactions. With 3D Touch™ capability, HoverTap™ can help reduce the use of high contact surfaces, provide sensing over thick security glass, and even operation of touch displays with gloves and in the presence of liquids.

Job Description:

A student is desired to join the team and work on developing new embedded software applications and products.

The student's duties will fall under the following areas:

- Developing embedded applications for deployment on Windows and Linux
- Developing interactive Graphical User Interfaces and other user-facing applications
- Designing communication routines for embedded microcontrollers and microprocessors
- Revamping and extending existing network communication routines
- Optimizing existing codebase for real-time implementation
- Managing all software testing, stable build releases, and version control repositories
- Actively working with the team to brainstorm, discuss, and solve technical problems

Job Requirements

Required Skills/Experience:

The prospective candidate will have a background and interest in:

- Object-Oriented programming & Object-Oriented design principals in C, C++
- Embedded data processing techniques and communication protocols
- Network coding and Server-client infrastructures
- Familiarity with Linux OS, bash scripting, and automation practices
- Familiarity with Qt
- Collaborating via version control software (i.e. Mercurial, Git)
- Experience with sensor processing algorithms is an asset
- Professional documentation practices
- Effective at independent problem-solving
- Good communication skills (informal and formal)

Citizenship Requirement Canadian & Permanent Residents & Refugees Only

Position Start Date January 01, 2026 12:00 AM

Position End Date August 31, 2026 12:00 AM

APPLICATION INFORMATION

Application Procedure Through UBC Science Co-op

Cover Letter Required? Yes

Address Cover Letter to Mr. Thien Ho