Job Posting: 176907 - Position: S26 Software Developer - C++ (Co-op) 176907

Co-op Work Term Posted:	2026 - Summer
App Deadline	01/16/2026 09:00 AM
Application Method:	Through Employer Website
Posting Goes Live:	01/12/2026 02:51 PM
Job Posting Status:	Approved

ORGANIZATION INFORMATION

Organization	Apera AI Inc.
Address Line 1	Ste. 501- 134 Abbott St.
City	Vancouver
Postal Code / Zip Code	V6B 2K4
Province / State	BC
Country	Canada

JOB POSTING INFORMATION

Placement Term	2026 - Summer
<b> Job Title <b>	S26 Software Developer - C++ (Co-op) 176907
Position Type	Co-op Position
Job Location	Vancouver, BC
Country	Canada
Duration	8 months
Work Mode	In-Person
Salary Currency	CAD
Salary	Salary Not Available, 40 Major List
Salary Range $	$3600-4500

Job Description

About Us:

We are an innovative, Vancouver-based startup at the forefront of robotics, AI, and machine vision technologies. Backed by VC funding and we've been recognized with the 2025 Frost & Sullivan Technology Innovation Leadership Award, the AAM Supplier Excellence Innovation Award, and the 2024 BC Tech "Company of the Year - Growth", we are on a mission to redefine the future of AI-driven robotic vision systems. Apera AI helps manufacturers make their factories more flexible and productive. Robots enhanced with Apera's software have 4D Vision - the ability to see and handle objects with human-like capability. Challenging applications such as bin picking, sorting, packaging, and assembly are now open to fast, precise, and reliable automation. Apera is led by an experienced team from high-growth companies focused on robotics, artificial intelligence, and advanced manufacturing.

Role Overview:

Apera AI is seeking a **Software Developer (Co-op)** with strong **C++** skills and an interest in robotics to join our **Apera Vue** engineering team for the 8 months term period. You'll contribute to the development of real-time machine vision applications that power robotic systems across manufacturing and automation environments.

This role is based in-person at our Vancouver office.

In this role, you'll build features in C++, support image processing and robotics integration, and contribute to testing efforts in both simulated and physical lab environments. Your work will improve the performance, reliability, and scalability of a system used on real factory floors.

Employee Value Proposition (EVP):

- **Purpose:** You'll contribute to the core of our 4D Vision Technology, helping robots perceive and act in complex, real-world environments. Your code will directly impact robotic accuracy, speed, and adaptability.
- **Growth:** You'll deepen your understanding of robotics, computer vision, and modern C++ development. You'll gain experience working in a professional R&D environment with exposure to production code, lab hardware, and team-based workflows.
- **Motivators:** You'll collaborate with engineers solving high-impact technical challenges. You'll take on meaningful tasks that go beyond academic exercises, seeing your code influence how robots make decisions in real time.

Major Objectives:

- **Develop and Ship Core C++ Features for Apera Vue:** Within the first 8-10 weeks, contribute a discrete feature or performance improvement to the Apera Vue application. *[Tech: C++, Qt, OpenCV]*
- **Support Robotic Integration and Image Processing:** Assist in testing and debugging real-world vision system behavior with robotic systems in the lab. Identify edge cases and performance issues. Suggest and test code-level improvements. *[Tech: Linear algebra, multithreading, image pipelines]*
- **Improve Code Quality through Testing and Review:** Participate in unit testing, test coverage expansion, and refactoring. Contribute to automated testing infrastructure to ensure robustness as the product scales. *[Tools: CMake, Git, GTest, internal CI tools]*

Critical Subtasks:

- Participate in daily standups, planning, and code review sessions with experienced engineers.
- Implement C++ modules that interact with vision data, robot pose data, or internal image pipelines.
- Run and validate your code in a live robotic lab environment.
- Write tests and help investigate edge cases or bugs in production builds.
- Contribute to documentation and developer notes for the next co-op or new team members.
- Learn from performance profiling tools to understand how to optimize for speed and memory.

Culture and Situation Fit:

At Apera AI, we blend scientific exploration with product execution. Our teams move quickly and iterate often, balancing R&D depth with industry-level engineering. You'll succeed here if:

- You enjoy learning by building and testing in the real world.
- You're curious about how software meets robotics, perception, and physical action.
- You value clean, well-documented code and thoughtful collaboration.

Job Requirements

Required Qualifications:

- Strong knowledge of C++, including object-oriented design and memory management.
- Solid foundation in linear algebra, vectors, and 3D transforms.
- Experience with version control (e.g., Git).
- Experience with software projects through coursework, personal work, or prior co-op/internships.

Bonus Experience (Not Required):

- Experience in Linux development environments.
- Exposure to computer vision or robotics libraries (OpenCV, ROS, PCL).
- Knowledge of multithreading or networking in C++.
- Familiarity with Python for scripting and automation

Citizenship Requirement	N/A
Position Start Date	May 04, 2026 12:00 AM
Position End Date	December 31, 2026 12:00 AM

APPLICATION INFORMATION

Application Procedure	Through Employer Website
Cover Letter Required?	No

Special Application Instructions

Apply through company's website: Job Application for Software Developer - C++ (Co-op) at Apera AI Inc

Application Process: Please ensure you upload both your resume and transcript, either combined into a single file or as separate files.

• **Assessment:** Complete a TestGorilla assessment and keep your results to reuse for future opportunities.

•**Interviews:** Take part in interview conversations focused on real problem-solving, how you work, and what you want to learn from the co-op.

•**Background Check:** A brief check is completed as required before an offer.

•**Timeline:** Receive a decision within three to four weeks, so you can plan your journey with confidence.

•**Human Review:** Your application is reviewed by real engineers and people-team members who care about your growth.

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