Job Posting:165331 - Position: S25 Software Developer - C++ & Robotics (Co-op) 165331

Co-op Work Term Posted:	2025 - Summer
App Deadline	01/20/2025 09:00 AM
Application Method:	Through UBC Science Co-op
Posting Goes Live:	01/10/2025 09:00 AM
Job Posting Status:	Expired

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	2025 - Summer
<b> Job Title <b>	S25 Software Developer - C++ & Robotics (Co-op) 165331
Position Type	Co-op Position
Job Location	Vancouver, BC
Country	Canada
Duration	8 months
Work Mode	Hybrid
	In-Person
Salary Currency	CAD
Salary	3600.0 per month for 40 Major List
Salary Range $	3,600-3,800
Job Description	

About Apera AI

Apera AI is a leading AI technology company based in Vancouver, Canada, specializing in next-generation machine vision solutions for industrial robotics. Through its proprietary 4D Vision Technology, Apera AI enables robots to perform complex tasks with human-like vision intelligence. This innovative platform provides fast, precise decision-making even in challenging conditions like variable lighting. Apera's solutions are widely applied in industries such as automotive, consumer electronics, and packaging, with applications including robotic bin picking, machine tending, and assembly.

As a **Software Developer - C++ & Robotics (Co-op)** at Apera AI, you will work alongside a team of engineers and applied scientists to develop and enhance applications that drive our machine vision imaging pipeline. You will focus on improving the overall software architecture that enables advanced robotic perception through cutting-edge technologies in computer vision and machine learning.

Your Responsibilities:

• Working with our engineers on developing the next generation robot calibration algorithms

•Creating robot programs showing upcoming Apera Vue features
•Experimenting with different hardware combinations to confirm system design parameters
•Contributing to the general software development activities
•Your responsibilities will include coordination with co-workers and other team members to accomplish successful projects.
At Apera AI, you will be part of a forward-thinking team, working on a revolutionary product that is shaping the future of robotics. If you're excited to make an impact in a fast-paced environment, we encourage you to apply!

Job Requirements

About You:
We are looking for an enthusiastic and driven individual who enjoys solving complex problems and applying scientific principles to real-world challenges. You thrive in a dynamic environment and are excited to make meaningful contributions to our team.

Job Requirements:
• Strong **C++ development experience** with a focus on performance and memory management
•Proficiency in data structures, algorithms, and object-oriented programming
•Solid understanding of **linear algebra** and its application in robotics
•Experience with version control systems, especially
 Git
•Familiarity with Agile development environments
Desirable Qualifications:
• Experience working in a **Linux environment**
•Familiarity with **computer vision algorithms** (classical and ML-based)
•Knowledge of **digital imaging** and optics
•Experience with **networking protocols** and **multithreaded programming**
•Exposure to **Python** for scripting and automation
Citizenship Requirement   N/A

APPLICATION INFORMATION

Application Procedure   Through UBC Science Co-op
Cover Letter Required?   Yes
Address Cover Letter to   Jamie Westell
Special Application Instructions

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.