

Job Posting:174732 - Position: W26 Scientific Software Co-op 174732B

Co-op Work Term Posted: 2026 - Winter
App Deadline 10/30/2025 09:00 AM
Application Method: Through UBC Science Co-op
Posting Goes Live: 10/23/2025 10:26 AM
Job Posting Status: Approved

ORGANIZATION INFORMATION

Organization Authentix
City Dallas
Province / State TX

JOB POSTING INFORMATION

Placement Term 2026 - Winter
** Job Title ** W26 Scientific Software Co-op 174732B
Position Type Co-op Position
Job Location Burnaby, BC
Country Canada
Duration 8 months
Work Mode In-Person
Salary Currency CAD
Salary 22.0 per hour for 37.5 Major List
Job Description

Title: Scientific Software Co-op

Work Location: Burnaby

Division & Department: Research and Development

Position Reports to: Graham Beales

COMPANY VALUES

All Authentix employees are expected to embrace our Company values in the performance of their respective tasks and duties.

Always with *integrity*.....Authentixians value:

- Dedicate ourselves to our customers' success
- Compete and win with integrity
- Create innovative solutions with science and technology
- Team and collaborate with accountability

JOB SUMMARY

The Scientific Software Co-op relies on a combination of programming ability and mathematical modeling to assist our software team in the creation of software that can be used for the design, simulation, or analysis of our nano-optic security features. This job requires knowledge of Python, with a specific emphasis on NumPy/the NumFOCUS ecosystem (Numpy, Scipy, pandas, matplotlib, scikit-learn) and Plotly. Advanced knowledge in mathematics, physics, statistics, and/or optics is beneficial, and the ability to work independently with little supervision is required.

SUMMARY OF ESSENTIAL JOB FUNCTIONS

The essential functions listed below are representative of the functions that must be performed to satisfactorily fulfill the purpose of this job. Additional functions and duties may be assumed or assigned from time to time.

- Develop and optimize scientific software using Python, especially NumPy

- Collaborate with the team to design, implement, and test new software features
- Analyze and interpret scientific data to inform software development
- Document code and algorithms to ensure reproducibility and clarity
- Participate in code reviews and provide constructive feedback
- Make clear, verifiable project plans

Job Requirements

KNOWLEDGE, SKILLS AND ABILITIES

To perform this job successfully, an individual must be able to perform each essential function satisfactorily. The requirements listed below are representative of the knowledge, skills and/or abilities required to satisfactorily perform the essential functions of this job.

- Currently enrolled in a cooperative education program in Computer Science, Software Engineering, Physics, Mathematics, or a related field
- Proficient in Python programming: OOP design, environment management, pytest
- Experience with NumPy and the NumFOCUS ecosystem (Numpy, Scipy, pandas, matplotlib, , scikit-learn) and/or PyTorch or Plotly
- Strong analytical and problem-solving skills
- Knowledge in mathematics, physics, statistics, or optics is highly beneficial
- Excellent communication skills and ability to work in a team environment
- Highly motivated and eager to learn

WORK REQUIREMENTS

The work environment characteristics are representative of those an employee encounters while performing the job. Authentix is committed to complying with all applicable provisions of the Americans with Disabilities Act (ADA), the ADA Amendments of 2008 and all applicable state and local laws concerning disability accommodation. Reasonable accommodations will be provided to individuals with known physical or mental disabilities if such accommodation would not impose an undue hardship on the company, and would enable the individual to apply for, or perform, the essential functions of the position in question.

Environment: Work is performed primarily in-person in a standard office environment. Employees may work under the stress of regular interdepartmental interaction and pressure to meet various deadlines.

Physical: Essential functions require sufficient physical ability and mobility to work in an office setting. While performing the duties of this job, the employee is frequently required to stand and/or sit for prolonged periods of time; must be able to hear and verbally communicate in order to exchange information in person or over the phone; to occasionally stoop, bend, kneel, crouch, reach and twist; to lift, carry, push and/or pull up to 25 pounds of weight; to operate office equipment requiring repetitive hand movement; to occasionally travel to other locations using various modes of private or commercial transportation.

Citizenship Requirement	Canadian Citizens Preferred
Position Start Date	January 12, 2026 12:00 AM
Position End Date	August 28, 2026 12:00 AM

APPLICATION INFORMATION

Application Procedure	Through UBC Science Co-op
Cover Letter Required?	Optional
Address Cover Letter to	Graham Beales