# Job Posting:171456 - Position: F25 Scientific Software Co-op 171456B

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| **Co-op Work Term Posted:** | 2025 - Fall |
| **App Deadline** | 07/24/2025 09:00 AM |
| **Application Method:** | Through UBC Science Co-op |
| **Posting Goes Live:** | 07/18/2025 09:14 AM |
| **Job Posting Status:** | Approved |

## ORGANIZATION INFORMATION

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| **Organization** | Authentix |
| **City** | Dallas |
| **Province / State** | TX |

## JOB POSTING INFORMATION

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|---|---|
| **Placement Term** | 2025 - Fall |
| **<b> Job Title <b>** | F25 Scientific Software Co-op 171456B |
| **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 and PyTorch. 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, and/or PyTorch

•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

## 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

•Experience with NumPy and/or PyTorch

•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

### SPECIAL REQUIREMENTS

• N/A

### 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 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.

### NOTIFICATION

This Job Description is intended to describe the general nature and level of work being performed by people assigned to this job and is not considered an exhaustive list of all responsibilities, duties and required skills. This Job Description does not constitute an offer of employment. The employment relationship between the Company and its employees is "At-Will" and based on mutual consent. Authentix, Inc. is an Equal Opportunity Employer.

**Citizenship Requirement**       Canadian Citizens Preferred

**Position Start Date**           September 08, 2025 12:00 AM

**Position End Date**             April 30, 2026 12:00 AM

## APPLICATION INFORMATION

**Application Procedure**     Through UBC Science Co-op
**Cover Letter Required?**     Optional