

## Job Posting:167822 - Position: S25 Co-op Software Developer - Curriculum Mapping Assistant 167822

**Co-op Work Term Posted:** 2025 - Summer  
**App Deadline** 03/18/2025 09:00 AM  
**Application Method:** Through UBC Science Co-op  
**Posting Goes Live:** 03/11/2025 01:22 PM  
**Job Posting Status:** Approved

### ORGANIZATION INFORMATION

**Organization** UBC Faculty of Forestry  
**Address Line 1** 2651-2424 Main Mall  
**City** Vancouver  
**Province / State** BC  
**Country** Canada

### JOB POSTING INFORMATION

**Placement Term** 2025 - Summer  
**<b> Job Title <b>** S25 Co-op Software Developer - Curriculum Mapping Assistant 167822  
**Position Type** Co-op Position  
**Job Location** Vancouver, BC  
**Country** Canada  
**Duration** 12 months  
**Work Mode** In-Person  
**Salary Currency** CAD  
**Salary** 3200.0 per hour for 40 Major List

#### Job Description

**Job Title:** Co-op Software Developer - Curriculum Mapping Assistant

**Department:** Dean's Office, Faculty of Forestry

**Openings:** 1

**Salary:** \$3200/month inclusive of stat benefits

**Duration:** 11 months, maximum 40 hours per week, from May 2025 to March 2026

**Status:** Work in-person

#### Job Description:

In this approved TLEF project, the UBC Faculty of Forestry aims to enhance a UBC Curriculum MAP tool to help curriculum developers identify knowledge gaps and overlaps across university courses and programs. Key upgrades include bulk upload of source data such as course/program learning outcomes (LOs) and accreditation competencies, automated outcome/competency matching and similarity comparisons, search capabilities and comprehensive reporting.

The Co-op Software Developer will be actively involved in coding, testing, and refining the enhanced features, gaining valuable experience in web development and curriculum technology and tool development. Their contributions will be essential to ensuring the tool meets the needs of both faculty and students.

#### Description of Duties:

- Communicates with teaching teams to collect and document project objectives and requirements;
- Measures and documents the performance and accuracy of different semantic similarity analysis algorithms and techniques;

- Contributes to the development and testing of extended functionality for an existing PHP/Laravel web application;
- Assists in the organization and translation of source documents into structured/fragmented data for semantic similarity analysis;
- Assists in the oversight of end-user testing, provides technical support as needed and documents feedback;
- Performs analysis of testing and usage data and documents findings for further project iteration;
- Creates technical documentation for internal processes and end-users;
- Other duties as assigned.

#### **Supervision Received:**

The position will work under direct supervision with the Senior Manager, Educational Strategies, who works closely with the Associate Dean, Academic of the Faculty, to support the ongoing development and operation of this TLEF project. The position will also work closely with the Web Specialist, other members of the Forestry Teaching & Learning Support (TLS) team and the representative from the UBCO team.

Work involves both independent work and within a team environment. The employee will maintain regular contact with the Supervisor through weekly meetings and email and telephone, as necessary.

### **Job Requirements**

#### **Qualifications:**

Education and Experience:

- Current UBC Vancouver student in at least 3rd year of an undergraduate program or graduate programs in Computer Science or Engineering;
- Familiarity with the git version control system;
- Strong computer and quantitative skills;
- Experience and knowledge of learning and web technologies;
- Knowledge of text similarity algorithms such as Cosine Similarity and Jaccard Similarity is an asset;
- Knowledge of statistical methods such as TF-IDF is an asset;

Skills and Abilities:

- Understanding of the Windows operating system;
- Knowledge of HTML and CSS;
- Experience working with JavaScript;
- Experience developing data processing, analysis and visualization scripts using Python and libraries such as NumPy, pandas and matplotlib;
- Experience developing web applications using PHP and Laravel is an asset;
- Experience working with relational database technologies such as PostgreSQL or MySQL is an asset;
- Experience developing integrations via RESTful APIs is an asset;
- Experience developing NLP applications is an asset;
- Familiarity with Linux operating systems is an asset;
- High level of accuracy and attention to detail;
- Excellent customer service and problem-solving skills;
- Responsible, professional, reliable;
- An ability to display initiative and creativity with high productivity;
- An ability to manage competing priorities;
- An ability to work efficiently and independently;
- An ability to establish and communicate boundaries on the scope of support provided;
- An ability to adequately express ideas orally and in writing to Faculty and staff;
- Self-motivated and quick to learn; exercises sound judgment to solve problems based on training provided.

#### **Citizenship Requirement**

N/A

## **APPLICATION INFORMATION**

<b>Application Procedure</b>	Through UBC Science Co-op
<b>Cover Letter Required?</b>	Optional
<b>Address Cover Letter to</b>	Michelle Zeng

