

Job Posting:167641 - Position: S25 R to Python Code Conversion Co-op 167641

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| Co-op Work Term Posted: | 2025 - Summer |
| App Deadline | 03/14/2025 09:00 AM |
| Application Method: | Through UBC Science Co-op |
| Posting Goes Live: | 03/05/2025 01:55 PM |
| Job Posting Status: | Approved |

ORGANIZATION INFORMATION

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| Organization | British Columbia Provincial Toxicology Centre |
| Address Line 1 | 4037-655 W 12th Ave |
| City | Vancouver |
| Postal Code / Zip Code | V5Z 4R4 |
| Province / State | BC |
| Country | Canada |

JOB POSTING INFORMATION

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| Placement Term | 2025 - Summer |
| Job Title | S25 R to Python Code Conversion Co-op 167641 |
| Position Type | Co-op Position |
| Job Location | Vancouver, BC |
| Country | Canada |
| Duration | 4 months |
| Work Mode | Hybrid |
| Salary Currency | CAD |
| Salary | 24.0 per hour for 37.5 Major List |
| Job Description | |

Automation and integration of machine learning in high resolution mass spectrometry data for novel drug identification.

The Provincial Toxicology Centre performs toxicology testing for the BC Coroners Service to identify drugs that may have contributed to death. In recent years, the unregulated drug supply has evolved to include novel psychoactive substances (NPS), which are drugs that are designed to evade detection and circumvent drug laws. To rapidly identify NPS, we have developed an automated tool using the Bioconductor XCMS package in R. However, this approach has led to a high error rate. We are seeking a co-op student to convert the current R script to a Python script that works with the matchms and spec2vec packages.

Job Requirements

Knowledge of Python coding is required. Experience with R coding and mass spectrometry data is an asset.

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| Citizenship Requirement | N/A |
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APPLICATION INFORMATION

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| Application Procedure | Through UBC Science Co-op |
| Cover Letter Required? | Yes |
| Address Cover Letter to | Aaron Shapiro |