Job Posting: 177857 - Position: S26 Software Development for Remote Sensing Data Processing 177857

Co-op Work Term Posted:	2026 - Summer
App Deadline	02/06/2026 09:00 AM
Application Method:	Through UBC Science Co-op
Posting Goes Live:	02/02/2026 08:52 AM
Job Posting Status:	Approved

ORGANIZATION INFORMATION

Organization	NRCan - Geological Survey of Canada
City	Sidney, BC
Country	Canada

JOB POSTING INFORMATION

Placement Term	2026 - Summer
<b> Job Title <b>	S26 Software Development for Remote Sensing Data Processing 177857
Position Type	Co-op Position
Job Location	Sidney, BC
Country	Canada
Duration	4 or 8 months
Work Mode	Hybrid
Salary Currency	CAD
Salary	18.0 per hour for 37.5 Major List
Salary Range $	$18 to $35 per hour

Job Description

Co-op Opportunity - Software Development for Remote Sensing Applications

Location: Pacific Geoscience Centre, Natural Resources Canada, Sidney, BC

Start Date: Spring 2026 Term (with possible extension)

Natural Resources Canada (NRCan) - Geological Survey of Canada (GSC) is seeking a motivated co-op student (2nd year or above) in **Engineering or Sciences** with strong programming and scientific computing skills. This opportunity is ideal for students interested in applying their skills to real-world research and sustainability

challenges.

Position Summary

You will join the Geodesy group at the Pacific Geoscience Centre in Sidney, BC, as part of a national NRCan research initiative supporting Canada's transition to sustainable energy. The project involves developing and automating software tools for satellite remote sensing data processing, specifically for analyzing GNSS, SAR data from **Carbon Capture, Utilization, and Storage (CCUS)** monitoring sites. You will contribute to designing and implementing tools that automate satellite data acquisition, quality control, data processing and visualization. This position offers a chance to work on cutting-edge applications used by the scientific research community, with potential for extension into a second co-op term depending on performance.

Key Responsibilities

- Work with geoscientists and graduate students to understand project goals and define software specifications.
- Design and develop tools (primarily in Python and shell scripting) to automate the processing and visualization of remote sensing data.
- Implement data quality control workflows and interactive visualizations via web interfaces or graphic tools.
- Conduct software testing, resolve bugs, and refine tool performance.
- Document code, workflows, and technical specifications for long-term use and reproducibility.

Required Skills

- Proficiency in Python and/or shell scripting.
- Experience with Unix/Linux environments.
- Exposure to scientific computing, including use of high-performance computing (HPC) or parallelized workflows.

Assets (Not Required but an Advantage)

•Familiarity with FORTRAN and/or Perl.

•Interest in geospatial or remote sensing applications.

•Strong communication and documentation skills.

•Ability to work independently and collaboratively.

•Enthusiastic and quick to learn new technical tools.

Additional Details

•Compensation is based on the Federal Government student hiring rate and is commensurate with experience.

•Preference will be given to Canadian citizens or permanent residents.

•The GSC values diversity and is committed to fostering an inclusive and supportive research environment.

To Apply:

Interested students should apply through their university's co-op job portal. For additional information, please contact Yan Jiang; yan.jiang@nrcan-rncan.gc.ca

Join us in using geospatial technology to support clean energy innovation and environmental protection in Canada!

Job Requirements

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Citizenship Requirement Canadian & Permanent Residents Preferred

APPLICATION INFORMATION

Application Procedure	Through UBC Science Co-op
Cover Letter Required?	Yes
Address Cover Letter to	Hiring Manager