

Job Posting:173775 - Position: W26 Co-op Student Software Developer: Electronic Lab Notebook (ELN) Software 173775

Co-op Work Term Posted: 2026 - Winter
App Deadline 10/01/2025 09:00 AM
Application Method: Through UBC Science Co-op
Posting Goes Live: 09/23/2025 02:15 PM
Job Posting Status: Approved

ORGANIZATION INFORMATION

Organization NRC - National Research Council of Canada
Country Canada

JOB POSTING INFORMATION

Placement Term 2026 - Winter
** Job Title ** W26 Co-op Student Software Developer: Electronic Lab Notebook (ELN) Software 173775
Position Type Co-op Position
Job Location Saskatoon, SK
Country Canada
Duration 4 months
Salary Currency CAD
Salary 833.0 per week for 37.5 Major List

Job Description

Student Job Title: Co-op Student Software Developer: Electronic Lab Notebook (ELN) software

Location: Saskatoon, SK

Length of Term:

This is for the Winter 2026 Co-op work term: January 2026 to April 2026

Student work terms last for approximately sixteen weeks (four months) based on a schedule of 37.5 hours per week.

The NRC/ Aquatic and Crop Resource Development Research Centre

The National Research Council (NRC) is the Government of Canada's largest research organization supporting industrial innovation, the advancement of knowledge and technology development. It represents a powerful partnering option for anyone looking to push the boundaries of science and industry.

The NRC's Aquatic and Crop Resource Development Research Centre (ACRD) performs advanced scientific research and provides research services and technology development for the sustainable transformation of Canadian bio-based resources into higher-value products. Our crop-based research focuses on ensuring a diverse and sustainable supply of resources for the Canadian agriculture and food ecosystem.

Towards crop resource development, we are developing advanced tools and technologies to:

- Increase the productivity, resilience and sustainability of traditional and economically important crops for Canada.
- Optimize the production of plant-based protein ingredients.
- Advance data-driven and AI-ML solutions for Canada's agriculture and food strategies.

Your Challenge

As a student joining NRC ACRD, you will undertake career-related projects in an engaging and intellectually stimulating environment, working alongside leading scientists.

You will be a key member of a team developing an Electronic Lab Notebook (ELN) software solution, using open-source frameworks, to store, organize, and search lab records. The ELN will provide secure, role-based access, allowing researchers to

record experimental histories, metadata, and procedures. The ELN solution will involve the student designing and implementing a robust database, web service, and software application, ensuring the system is scalable, reliable, and easy to maintain. The successful student will make important contributions to increasing research efficiency and traceability at NRC ACRD through ELN implementation and configuration, while gaining critical experience in software development, data management, and research support within a federal organization. By digitizing lab records, the ELN will improve findability, accessibility, interoperability, and reuse of data.

Condition of Employment:

Security clearance at the reliability level

Salary Range

NRC offers competitive salaries to co-op students based on the number of work terms which have been completed. The weekly rate of pay ranges from \$833 to \$1,107 for 37.5 hour work week.

Current co-op work term rates are as follows:

Current work term	Weekly rate of pay (37.5 hrs)
First	\$833
Second	\$900
Third	\$948
Fourth	\$993
Fifth	\$1,052
Sixth	\$1,107

The NRC also reimburses students the cost of their travel expenses to and from their employment centre from their education institution in accordance with travel guidelines.

Notes

Priority may be given to the following designated employment equity groups: Women, Indigenous peoples* (First Nations, Inuit and Métis), persons with disabilities and racialized persons*.

* The Employment Equity Act, which is under review, uses the terminology Aboriginal peoples and visible minorities.

We thank all students for showing interest in working at NRC ACRD; however, only selected candidates will be contacted.

Job ID# ACRD_Winter2026_06

Job Requirements**Required Skills**

- Expertise - Python, Jupyter Notebook, web development (full-stack), software development, databases (e.g., PostgreSQL, MySQL), container and cloud storage solutions, user experience design, version control (Git), RESTful APIs and API design, and open-source concepts.
- Experience - Python scripting and Jupyter Notebook workflows, web-based data management tools (building and maintaining web applications) experience, software development (e.g., Java, React), deploying applications with Docker, authentication/authorization, relevant background through internships, projects, or coursework demonstrating web app development skills.

Targeted Degrees and Disciplines

Undergraduate or graduate level Co-op student studying computer engineering, computer science, software system engineering, and/or related fields.

Who is Eligible

You are eligible for the NRC Co-op Program if you attend a Canadian university/college, are enrolled in a recognized Co-op program, possess a minimum of a B average and are a Canadian citizen or a permanent resident of Canada.

Alternatively, foreign national students who meet the eligibility requirements, are studying in a recognised and eligible Canadian educational institution and possess a valid Co-op Work Permit may also apply.

Citizenship Requirement

N/A

APPLICATION INFORMATION

Application Procedure Through UBC Science Co-op

Cover Letter Required? Yes

Address Cover Letter to Kristy Tanguay

Special Application Instructions

Application Requirements

Please include the following documents with your application:

- Cover letter
- Resume
- Most recent university/college transcript (unofficial is sufficient)