

## Job Posting:173824 - Position: W26 Co-op Student: JWST Data Specialist 173824

**Co-op Work Term Posted:** 2026 - Winter  
**App Deadline** 10/06/2025 09:00 PM  
**Application Method:** Through Employer Website  
**Posting Goes Live:** 09/24/2025 03:09 PM  
**Job Posting Status:** Approved

### ORGANIZATION INFORMATION

**Organization** NRC - National Research Council of Canada  
**Address Line 1** 5071 West Saanich Rd  
**City** Victoria  
**Postal Code / Zip Code** V9E 2E7  
**Province / State** BC  
**Country** Canada

### JOB POSTING INFORMATION

**Placement Term** 2026 - Winter  
**<b> Job Title <b>** W26 Co-op Student: JWST Data Specialist 173824  
**Position Type** Co-op Position  
**Job Location** Victoria, BC  
**Country** Canada  
**Duration** 4 months  
**Salary Currency** CAD  
**Salary** 833.0 per week for 37.5 Major List  
**Salary Range \$** From \$833 to \$1107 per week (37.5 hrs)  
**Job Description**

**Job Title: Career Opportunities: Co-op Student: JWST Data Specialist (24447)**

**Job ID:** 24447

**Closing Date:** Monday, October 6, 2025 - 23:59 Eastern Time

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.

Candidates are asked to self-declare when applying to this hiring process.

**City:** Victoria

**Organizational Unit:** Herzberg Astronomy and Astrophysics

#### Discover the possible

Anything is possible at the National Research Council (NRC), recently named one of Canada's 2025 Top Employers for Young People, a 2025 Top Employer in the National Capital Region and Forbes Canada's Best Employers!

As Canada's leading research and technology organization, our world-renowned research pushes the boundaries of science and engineering to make the impossible, possible. Every day we explore new ideas through innovative research and help companies discover possibilities that impact Canada's future and the world.

At the NRC, you'll also discover new possibilities. Our supportive workplace fosters a culture of creativity, welcoming fresh perspectives and innovation at all levels. We value teamwork. You'll collaborate across multiple fields and with the brightest minds to find creative solutions. Most importantly, you'll discover what's possible within you as you grow, make valuable contributions and

progress in your professional journey. From ground-breaking discoveries to a life-changing career, discover your possible at the NRC.

### **Project Description**

The student with enthusiasm for observational astrophysics will help the observational astronomy team under Wesley Fraser in their search for binary Kuiper Belt Objects in JWST-NIRCam data. The data were acquired in Cycle 1 as part of the Pencil Beam project, from which PhD student Marielle Eduardo has performed the deepest search for moving icy bodies ever performed. In this position, the co-op student will work with Wes and Marielle in modifying the Pencil Beam pipeline software to inject artificial binary sources. These newly implanted data will be passed through the search pipeline to assess how well binary sources can be detected. These results will provide a search for binary Kuiper Belt Objects around bodies as small as 10km in diameter, significantly fainter than any past searches. During this effort, the student will interact with the core of the JWST pipeline, and the machine learning tools that Fraser's team has developed for searches such as this.

### **Length of term**

This is a «**16 week**» term.

Anticipated dates: starting 5 January 2026, ending 24 April 2026.

### **Your Responsibilities**

1. Modification of python-based implantation code that makes use of the JWST pipeline.
2. Generation of a sample of artificial binary Kuiper Belt Object systems.
3. Creation of the implanted code.
4. Application of the search pipeline to the new binary implanted data.

### **Compensation**

- From \$833 to \$1107 per week (37.5 hrs)
- Salaries are determined based on the student's work term.

### **Notes**

- In 2025, the NRC has been chosen as one of Canada's Top Employers for Young People, the National Capital Region's Top Employers and Forbes Canada's Best Employers.
- The incumbent must adhere to safe workplace practices at all times.
- A driver's license and car would be useful for personal transportation. Please note that the Dominion Astrophysical Observatory (DAO) is located approximately 15 kilometres from the downtown Victoria. The public transport to the area is not always convenient, but carpooling with observatory staff may be available. A lot of staff also commute by bicycle.

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

## **Job Requirements**

### **Education**

Preferred Education level:

- University Undergraduate, preference 3rd or 4th year in Physics, Mathematics, or Astrophysics.

### **Requirements**

Familiarity with the python programming language.

Ideal but not required: experience with observational astronomy data, and the fits data format. Experience with ephemerides.

### **Who can apply?**

**You are eligible for the NRC Co-op Program if:**

- You attend a Canadian university/college with a recognized co-op program.
- You possess a minimum "B" academic average or equivalent (preference may be given to candidates with a "B+" academic average).
- You are a Canadian Citizen or Permanent Resident of Canada. Additionally, foreign national students who meet the eligibility requirements, are studying in recognized and eligible Canadian educational institution and possess a valid Co-op Work Permit may also apply. For more detailed requirements and information on this possibility, please refer to the information found at Citizenship and Immigration Canada.

### **Condition of employment**

Reliability Status

For a Reliability Status, verification of background information over a period of 5 years is required.

### **Citizenship Requirement**

N/A

## APPLICATION INFORMATION

**Application Procedure** Through Employer Website

**Cover Letter Required?** Yes

**Address Cover Letter to** Hiring Manager

### Special Application Instructions

#### Application Link:

<https://career17.sapsf.com/sfcareer/jobreqcareerpvt?jobId=24447&company=nationalreP&st=257C7CEE47D5C31EC888595A0FF94AC5CA9175BC>

#### Application Requirements

In order to be considered for the Co-Op program please include the following in your application. Failure to do so will result in your application being excluded from searches.

- Cover Letter
- Resume
- Transcript

We will accept the most recent university/ college transcript available. Please ensure that your full name is clearly indicated on your transcript.

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**Please click the "I intend to apply to this position" button on SCOPE and also submit your application via the employer's website.** Applications are accepted on a rolling basis and the posting may be expired at any time by the employer as submissions are received. Students should submit their applications as soon as they are ready.