Job Posting:175277 - Position: W26 Aviation Predictive Analytics Co-op Student 175277

Co-op Work Term Posted:	2026 - Winter
App Deadline	11/19/2025 11:59 PM
Application Method:	Through Employer Website
Posting Goes Live:	11/10/2025 02:50 PM
Job Posting Status:	Approved

ORGANIZATION INFORMATION

Organization	NAV Canada - Engineering
Address Line 1	P.O. Box 3411 Station 'T'
City	Ottawa
Postal Code / Zip Code	K1P 5L6
Province / State	ON
Country	Canada

JOB POSTING INFORMATION

Placement Term	2026 - Winter
<b> Job Title <b>	W26 Aviation Predictive Analytics Co-op Student 175277
Position Type	Co-op Position
Job Location	Ottawa, ON
Country	Canada
Duration	4 months
Work Mode	Hybrid
Salary Currency	CAD
Salary	Salary Not Available, 0 Major List

Job Description

Job Title: Aviation Predictive Analytics Co-op Student

Job ID: JR-7534

Application Deadline: **November 19th, 2025**

Job Summary

We're experts in navigating Canada's skies. Helping pilots safely cross 18 million square kilometers of Canadian and North Atlantic airspace is what we do. Enroute or at airports, in clearances or on charts, through radio signals or expertise - we're always there. NAV CANADA is hiring an Aviation Predictive Analytics Co-op Student to join our Corporate Performance and Sustainability Team! As a Co-op Student, you'll enhance your technical and analytical skills while gaining valuable experience in the aviation analytics and forecasting domain. You will work with an experienced team of analysts who are developing models to forecast aviation activity and other key business metrics that directly support strategic planning and decision-making across NAV CANADA. Our Co-op Student Program is designed to provide meaningful, hands-on experience and help identify high-potential talent for future opportunities.

Job Description

Are you passionate about data analytics, forecasting, and real-world impact? Do you want to apply your analytical skills to understand how air traffic trends, economic indicators, and global events shape Canada's aviation system? Join NAV CANADA's Corporate Performance and Sustainability Team - where data science meets aviation strategy.

As an Aviation Predictive Analytics Co-op Student, you will:

• Contribute to the development, testing, and refinement of statistical and machine learning models used in aviation forecasting and scenario analysis.
•Assist in preparing, cleaning, and transforming large datasets using Python, SQL, and Azure Databricks.
•Support the automation of analytical workflows and model tracking using Databricks Workflows and MLflow.
•Participate in developing visual dashboards and interactive reports.
•Collaborate with team members to analyze trends, validate models, and interpret results in a business context.
•Document analytical processes and contribute ideas for improving efficiency, accuracy, and interpretability of forecasting models.
•Explore relationships between aviation activity, macroeconomic indicators, and external data sources to enhance model explainability.

Key Learning Opportunities:

This role provides exposure to:

• Applied Forecasting: Learn how forecasting supports strategic planning and operational decisions in the aviation sector.
•Modern Data Platforms: Hands-on experience with Azure Databricks, MLflow, and data versioning using Git and Azure DevOps.
•Model Development Lifecycle: Participate in data preparation, model training, performance evaluation, and deployment.
•Visualization & Communication: Learn to translate analytical insights into compelling visual stories for non-technical audiences.
•Aviation Industry Insight: Understand how aviation trends, technology, and policy intersect with data-driven planning.

Working conditions:

• This position is based at the Ottawa Head Office with a minimum of 3 days per week on site.
•Occasional travel required

Work Environment Language

English

NAV CANADA is committed to building a skilled, diverse workforce reflective of Canadian society. If you do not believe that you match every job requirement listed on this job posting, we still encourage you to apply. NAV CANADA encourages a culture of learning and growth, and recognizes that although some technical skills are mandatory, many others can be taught.

Our Company strives to create an inclusive and barrier-free selection process and work environment. If you require accommodations during this competition process, please ensure that you inform the interview coordinator or hiring manager of any accommodation measures you may require. NAV CANADA will provide accommodations throughout the recruitment and selection process to applicants with disabilities as required.

The successful candidate must meet the security requirement of the position and be legally able to work in Canada.

We thank all applicants for their interest; only those selected for next steps will be contacted.

Job Requirements

The ideal candidate will have:

• Curiosity and motivation to learn about data analytics, forecasting, and the aviation industry.
•Effective communication skills (both verbal and written).
•Strong organizational skills, attention to detail, and dependability.
•Ability to work collaboratively in a team environment.
•A creative and analytical mindset with an eagerness to solve real-world problems.

Knowledge & Abilities

• Basic understanding of statistical or time-series concepts (e.g., trend, seasonality, regression).
•Familiarity with Python and libraries such as pandas, matplotlib, scikit-learn, or statsmodels.
•Understanding of SQL and data querying principles.
•Interest in learning forecasting models (e.g., ARIMA, Prophet, Exponential Smoothing).
•Familiarity with data visualization (e.g., Dash, Power BI, or similar tools) is an asset.
•Knowledge of version control (Git) or workflow automation tools is an asset.
•Proficiency with Microsoft Excel and PowerPoint for analysis and presentations.

Programs and Level:

• Undergraduate or graduate student working towards a degree in Data Science, Statistics, Economics, Computer Science, Engineering, or a related discipline.

Citizenship Requirement N/A

APPLICATION INFORMATION

Application Procedure	Through Employer Website
Cover Letter Required?	Optional

Special Application Instructions

Application Link:

https://navcanada.wd10.myworkdayjobs.com/NAV_Careers/job/Ottawa/Aviation-Predictive-Analytics-Co-op-Student_JR-7534

Application Deadline: November 19th, 2025

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.