

Job Posting: 177602 - Position: S26 IT Architecture Automation Intern 177602B

Co-op Work Term Posted:	2026 - Summer
App Deadline	01/30/2026 09:00 AM
Application Method:	Through Employer Website
Posting Goes Live:	01/23/2026 11:05 AM
Job Posting Status:	Approved

ORGANIZATION INFORMATION

Organization	BNP Paribas
Country	Canada

JOB POSTING INFORMATION

Placement Term	2026 - Summer
 Job Title 	S26 IT Architecture Automation Intern 177602B
Position Type	Co-op Position
Job Location	Montreal, QC
Country	Canada
Duration	4 months
Work Mode	In-Person
Salary Currency	CAD
Salary	Salary Not Available, 0 Major List
Job Description	

In a changing world, unprecedented challenges require unmatched talent. Join one of Montreal's Top Employers in 2025. We are a dynamic and growing organization having its main establishment located in downtown Montreal and part of a leading international banking institution fully committed to building a more sustainable future. Note that the position may be in the Canadian Branch of BNP Paribas or in one of its subsidiaries based in Montreal.

Internship program

As an intern, you will benefit from a 4 month program that aims to give you the tools to develop yourself and discover your potential through customized trainings, networking sessions and transversal projects.

More information about the program available on our website:

BNP Paribas in Canada Students & Young graduates

The position at a glance

We are looking for a motivated intern to join our Enterprise Architecture team and help?automate key architectural processes using artificial intelligence techniques.?You will work side by side with senior architects, data scientists and platform engineers to turn repetitive, manual tasks (e.g., technology stack recommendation, data flow mapping, compliance checklists, impact analysis) into intelligent, repeatable workflows. The experience will give you hands on exposure to enterprise scale cloud environments, AI/ML model building, and modern DevOps tooling while contributing to the strategic speed of our architecture delivery.

In detail

The team members are responsible of the following activities:

- Process Discovery & Mapping
- Identify and document high impact architectural activities that are currently manual (e.g., technology fit gap analysis, asset inventory validation, pattern selection for new solutions).
- Work with architects and domain SMEs to capture inputs, decision rules and output artefacts in a format suitable for automation.

- AI Driven Prototype Development
- Design, train, and evaluate lightweight machine learning or natural language processing models that can suggest architecture components, classify technology stack options, or flag compliance gaps.
- Use Python (scikit learn, pandas, TensorFlow/PyTorch, spaCy, LangChain, etc.) and Jupyter notebooks to iterate quickly.
- Automation & Integration
- Build proofs of concept that embed AI models into existing toolchains (e.g., ServiceNow, Confluence, Azure DevOps, GitHub Actions).
- Create CI/CD pipelines that automatically run the models, generate artefacts (architecture decision records, diagrams, risk scores) and push them to the appropriate repositories.

Work conditions: This position provides for standard working conditions in an office and a normal work schedule from Monday to Friday.

Job Requirements

The strengths and skills that will help you succeed

- Bachelor's or Master's program (or recent graduate) in Computer Science, Information Systems, Data Science, Software Engineering, or a related field.
- Strong programming skills in Python; familiarity with libraries such as pandas, NumPy, scikit learn, and at least one deep learning framework (TensorFlow, PyTorch, Keras).
- Basic understanding of IT Architecture concepts (e.g., reference architectures, technology stacks, cloud service models, CMDB, TOGAF/FEAF).
- Knowledge of AI/ML fundamentals (classification, regression, NLP, prompt engineering) and experience with building simple models or prototypes.
- Exposure to cloud platforms (AWS, Azure, GCP) and modern DevOps tooling (Git, CI/CD pipelines, Docker).
- Ability to work with structured and semi structured data (CSV, JSON, XML) and comfort with SQL or NoSQL queries.
- Professional knowledge of the English language*

*Given the vast majority of our clients, both internal and external, are based outside of Quebec and Canada, specific language requirements may apply. Professional working proficiency in English language is required.

Citizenship Requirement N/A

APPLICATION INFORMATION

Application Procedure Through Employer Website

Special Application Instructions

Please click the "I intend to apply to this position" button on SCOPE and also submit your application via the employer's website.

Application Link: ?IT Architecture Automation Intern - Canada

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.