Job Posting:173663 - Position: W26 IBM Payments Centre Quantum AI Developer Intern (Jan 2026 - 8 months - Toronto) 173663

Co-op Work Term Posted:	2026 - Winter
App Deadline	09/29/2025 09:00 AM
Application Method:	Through Employer Website
Posting Goes Live:	09/22/2025 11:56 AM
Job Posting Status:	Approved

ORGANIZATION INFORMATION

Organization	IBM Canada Ltd.
Country	Canada

JOB POSTING INFORMATION

Placement Term	2026 - Winter
<b> Job Title <b>	W26 IBM Payments Centre Quantum AI Developer Intern (Jan 2026 - 8 months - Toronto) 173663
Position Type	Co-op Position
Job Location	Toronto, ON
Country	Canada
Duration	8 months
Work Mode	To be confirmed
Salary Currency	CAD
Salary	Salary Not Available, 0 Major List

Job Description

59961

Introduction

Innovative Quantum / AI Developer Intern with strong academic foundations in quantum computing, AI/GenAI platforms, and gaming system development. Skilled in applying neural networks, AI-based NPC modeling, reinforcement learning, and game engine programming to create intelligent, immersive, and adaptive systems. Eager to contribute to next-generation AI and gaming solutions, while expanding expertise in quantum frameworks and scalable AI models.

Your role and responsibilities

• Develop and train neural network models for NPC behavior modeling, enabling adaptive and realistic gameplay.
•Apply reinforcement learning (RL) to design NPCs capable of dynamic decision-making and difficulty scaling.
•Experiment with AI/GenAI platforms for dialogue generation and procedural storytelling.
•Build and optimize AI-driven environments in Unity and Unreal Engine, incorporating deep learning-based physics and environment simulations.
•Prototype quantum-inspired AI algorithms for randomness, cryptography, and in-game simulation dynamics.
•Support integration of LLMs and neural agents into multiplayer gaming systems for intelligent NPC interactions.
•Document algorithms, architectures, and AI-agent workflows for research and engineering collaboration.

Job Requirements

This position is open to applicants who reside in Toronto and is open to applicants seeking a 8-month internship work term, commencing in Jan 2026. It is mandatory that all applicants are enrolled in full-time studies at a post-secondary institution and

returning to full-time studies upon completion of their work term.

Required education

High School Diploma/GED

Preferred education

Bachelor's Degree

Required technical and professional expertise

- Neural Networks & AI: Deep Learning (CNNs, RNNs, Transformers), RLlib for reinforcement learning, GANs for content generation.
- AI NPC Modeling: Intelligent NPC behaviors, procedural content generation, adaptive difficulty balancing.
- Quantum Computing Platforms: IBM Qiskit, Google Cirq, Xanadu PennyLane.
- AI / GenAI Platforms: OpenAI, Hugging Face, LangChain, Azure OpenAI, Google Vertex AI.
- Machine Learning & Simulation: TensorFlow, PyTorch, Scikit-learn, Gym environments for RL.
- Gaming Systems & Engines: Unity (C#), Unreal Engine (Blueprints, C++), Godot.
- Visualization & Simulation Tools: Blender, Matplotlib, Power BI.
- Programming & Development: Python, C++, Rust, JavaScript.
- DevOps & Version Control: Git, GitHub Actions, Docker for reproducible environments.

OTHER RELEVANT JOB DETAILS

Must have the ability to work in Canada without sponsorship.

This role will involve working with technology that is covered by Export Regulations sanctions. If you are a Foreign National from any of the following US sanctioned countries (Cuba, Iran, North Korea, Syria, and the Crimea, Luhansk, Donetsk, Kherson, and Zaporizhia regions of Ukraine) on a work permit, you are not eligible for employment in this position.

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:

https://ibmglobal.avature.net/en_US/careers/JobDetail?jobId=59961

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.