Lead Data&ML Engineer

Requisition	R0000191462
Employer	Royal Bank of Canada
Canadian locations	Toronto (Ontario, Canada)
Primary address	600 QUEENS PLATE DR, TORONTO, ON M9W 0A4, Canada
Posted	November 18, 2026
Last day to apply	January 30, 2027
Posted deadline	January 31, 2027
Business area	TECHNOLOGY AND OPERATIONS
Employment status	Regular
Work schedule	Full time · 37.5 h per week
Pay type	Salaried

The position

Are you a talented, creative and results-oriented professional who thrives on delivering successful applications. Join us!

Global Functions Technology (GFT) is part of RBC's Technology and Operations division. GFT's impact is far-reaching as we collaborate with partners from across the company to deliver innovative and transformative IT solutions. Our clients represent Risk, Finance, HR, CAO, Audit, Legal, Compliance, Financial Crime, Capital Markets, Personal and Commercial Banking and Wealth Management. We also lead the development of digital tools and platforms to enhance collaboration.

The AI & Digital Transformation (ADT) retail credit program aims to improve AI's enhanced subscription capabilities, which will improve customer acquisitions and the depth of customer relationships. This program will enable us to quickly train and operate new LM and AI models with improved deployment and maintenance models. This project aims to advance NextGen's computing and engineering capabilities on public cloud and on-site infrastructure, establish data pipelines and feature stores with integrated data quality and governance for high quality, traceable information, and set ML's life cycle to improve delivery speed through improved controls, monitoring and guarding.

Responsibilities

- Develop a functionality store with integrated data quality and governance to ensure high quality and traceable ML information.
- Design and implement pipelines for the extraction, transformation and storage of functionality using scalable cloud solutions.
- Implement reusable pipelines and MLOps solutions to optimize machine learning models and other quantitative life cycle management algorithms.
- Work with scientists to translate research and prototypes into ready-to-production and well-designed code.
- E2E technical competence, including data analysis, data pre-processing and character engineering to prepare data sets for model formation.
- Work with scientists, quantitative analysts, software engineers, data engineers and domain experts to collect requirements and establish project objectives.
- Document processes, methodologies and results of machine learning to facilitate knowledge sharing and collaboration.

Qualifications

Requirements

- Degree in computer science, engineering, mathematics, statistics or in a field closely related to the level of baccalaureate or master's degree.
- 5 years and more experience in programming, small-scale applications, with a focus on full development; 3 years and more team leader or similar capacity with full end-to-end ownership in the implementation of a project

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- High-level expertise in programming languages such as Python, highly competent in ML data and frames, such as Airflow, PySpark, Pandas, SaegMaker ecosystem, etc. Experience with data engineering/ETL pipelines.
- Expert in DevOps practices and tools for CI/CD pipelines.
- Excellent problem-solving skills and analytical thinking. Strong communication and collaboration skills.
- Champion of best practices and constant quest for engineering excellence, automation and the best class user experience
- Ability to drive technical innovation, including researching new technologies, evaluating technical options, and recommending technical solutions
- Excellent communication and collaboration skills, with the ability to work effectively with interfunctional teams
- Willingness to learn new technologies and adapt to new challenges

Assets

- Familiarity with containerization using Docker and orchestration using Kubernetes
- Experience with cloud platforms including Amazon Web Services (AWS), Microsoft Azure or Google Cloud Platform (GCP)
- Previous exposure in the financial industry, in particular by supporting high-end risk analysis functions (such as market risk, credit risk or liquidity risk), in the design and development of regulatory frameworks.

Pay and benefits

RBC teams aim to grow by working together, thinking ahead and giving dependable advice that helps clients and communities prosper. They support one another, develop their potential and strive for outcomes that benefit the communities they serve as well as the bank.

- A total compensation program with competitive pay, bonuses and flexible benefits, plus commissions and stock where applicable.
- Managers who coach employees and help them find opportunities to develop.
- Capacity to make a difference and sustainable impact
- Join a collaborative team that works at a high standard and looks for new ways to improve.
- A world-class financial services training programme
- Access to a variety of job opportunities in enterprises and geographies.

Job Skills

Big Data Management, Cloud Computing, Database Development, Data Mining, Data Warehousing (DW), ETL Processing, Group Problem Resolution, Quality Management, Needs Analysis

RBC accepts applications until 11:59 p.m. on the day before the posted deadline.

Our Employment Opportunities

RBC works as One RBC and follows five shared values: putting clients first, integrity, collaboration, respect and excellence. As one of the world’s largest and most successful banks, it sees inclusion and different perspectives as important to continued growth. RBC supports staff in doing their best work, working together, innovating and developing professionally. Its policies and programs foster respect, belonging and opportunities for everyone to create value for clients and communities.

Talent community

People who join RBC’s talent community can receive new postings, career advice and recruitment event updates tailored to their interests.

RBC’s careers portal shares information about career paths and how its teams contribute to client and community well-being.

RBC is accepting applications for an existing vacancy. Qualified applicants may hear from the recruitment team for a more detailed review of their résumé.

Search for requisition R0000191462 on the RBC careers portal.

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