Lead Data Engineer

Requisition	R0000192867
Employer	Royal Bank of Canada
Canadian locations	Toronto (Ontario, Canada)
Primary address	600 QUEENS PLATE DR, TORONTO, ON M9W 0A4, Canada
Posted	November 26, 2026
Date in the description	November 25, 2026
Posted deadline	January 31, 2027
Last day to apply	January 30, 2027
Business area	TECHNOLOGY AND OPERATIONS
Employment status	Regular
Work schedule	Full time · 37.5 h per week
Pay type	Salaried

The position

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

- Design and implement pipelines for the extraction, transformation and storage of functionality using scalable cloud solutions.
- E2E technical competence, including data analysis, data pre-processing and character engineering to prepare data sets for model formation.
- Ensure data consistency, lineage and metadata management to meet regulatory and governance needs.
- Work with scientists to standardize character definitions and promote re-use between teams.
- Implement reusable pipelines and MLOps solutions to optimize machine learning models and other quantitative life cycle management algorithms.
- Develop a functionality store with integrated data quality and governance to ensure high quality and traceable ML information.
- Work with scientists, quantitative analysts, software engineers, data engineers and domain experts to collect requirements and establish project objectives.

Qualifications

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Requirements

- Degree in computer science, engineering, mathematics, statistics or in a field closely related to the level of baccalaureate or master's degree.
- 8 years and more experience in programming, small and large applications, with a focus on comprehensive development; 3 years and more team leader or similar capacity with full end-to-end ownership in the implementation of a project
- High-level expertise in programming languages such as Python, PySpark, highly competent in ML data and frames, such as Spark, Pandas, etc. Experience with PySpark for 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
- Experience in agile development methodologies, including Scrum or Kanban, and ability to apply these principles to lead the team
- 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.

Job Skills

Agile software development, Amazon Web Services (AWS), Big Data Management, Cloud Computing, Cloud Platform, Data Engineering, Data Mining, Data Pipelines, Data Warehousing (DW), ETL processing, Git, group problem solving, automatic learning (ML), PySpark, Quality management, Needs analysis

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

Our Employment Opportunities

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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 R0000192867 on the RBC careers portal.

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