Lead ML & MLOps Engineer

Requisition	R0000192975
Employer	Royal Bank of Canada
Canadian locations	Vancouver (Colombie-Britannique, Canada)
Primary address	745 THURLOW ST, VANCOUVER, BC V6E 3V5, Canada
Posted	November 26, 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

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. In your role, You'll architect and create systems that directly influence billions in lending decisions, shaping RBC's competitive edge in financial innovation.

The Lead Engineer - AI/ML & MLOps Solutions is a hands-on engineering leader focus on building and scaling data-driven systems and platform capabilities that enable advanced analytics, machine learning, and impactful business decisions. You will play a key role in shaping our next-generation credit decisioning and risk management platform, and lead by example in applying sound architectural thinking, engineering rigor, and technical mentorship. You will lead the execution of a suite of solutions with a team of seasoned engineers to deliver the visions to scale your impacts and pace of development. People management mandates are not a significant portion of this role.

Responsibilities

- Hands-On Engineering (75%)
- Design, build and review scalable data pipelines, analytical platforms and ML systems.
- Take charge of delivery from end to end, from design to production.
- Solution Architecture and Technical Direction (25%)
- Define and promote best practices in data and ML engineering.
- Evaluate emerging technologies and guide their adoption to stimulate innovation.
- Translate data and business science needs into technical solutions.
- Partnership
- Work closely with scientists, business leaders and IT teams to understand their needs and transform them into technical solutions.
- Coaching and Mentorship
- Train junior engineers and support their growth.
- Foster a collaborative, high-performing culture by serving as a role model.
- Setting high standards of engineering and setting an example rather than management or micro-management. People management is not an essential part of this role.

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- Delivery and Governance
- Deliver projects with high quality, on time, and aligned with business goals.
- Proactively identify risks.
- Applying data governance and security standards.

Qualifications

Requirements

- 5 years of experience and more in designing and building data-intensive applications, with 1-2 years of technical leadership.
- In-depth expertise in modern ML data processing and engineering tools and languages (e.g. Python, Java/Scala, PySpark/Spark, Kafka, SQL, orchestration frames).
- Strong understanding of the ML lifecycle and MLOps practices, including model deployment, monitoring, and CI/CD pipelines.
- Experience in real-time inference systems, both on-site and in the cloud.
- Experienced with cloud platforms such as AWS or Azure, with knowledge of evolutionary architecture models.
- Infrastructure competence as a code (SDK, Terraform).
- Communicate effectively, with the ability to explain complex technical concepts to technical and non-technical audiences.
- A proven success in delivering high-impact platforms or products.
- Bachelor's degree in Computer Science, Engineering, or a related field. A Master's or PhD is preferred.

Assets

- Practical experience with AWS SageMaker and related services (Glue, EMR, Lambda, Step Functions, Airflow, CloudWatch).
- Experience coaching or mentoring engineers and contributing to team growth.
- Context of data governance, privacy and security practices at the corporate level.

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 R0000192975 on the RBC careers portal.

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