Lead, Full Stack Engineer

Requisition	R0000191970
Employer	Royal Bank of Canada
Canadian locations	Vancouver (Colombie-Britannique, Canada)
Primary address	745 THURLOW ST, VANCOUVER, BC V6E 3V5, Canada
Posted	November 13, 2026
Date in the description	November 6, 2026
Posted deadline	November 27, 2026
Last day to apply	November 26, 2026
Business area	TECHNOLOGY AND OPERATIONS
Employment status	Regular
Work schedule	Full time · 37.5 h per week
Pay type	Salaried

The position

The Chief Engineer, Full Stack, is a practical leader in AI engineering, US-based fraud, AML, Finance and Risk. You will create and inspire a team that offers scalable, production-ready solutions. You will lead modernization the RBC careers portal, bring AI and agent tools into daily engineering, and drive US CNB Functions technology in the RBC Enterprise ecosystem, with every solution from concept modernization to production.

You will work at the core of data, APIs, and web services, delivering secure, high-impact integration across SSO, security, and messaging through Kafka or MQ. You will drive and lead the integration of CNB entities, working with teams to ensure seamless business adoption. You will also apply cutting-edge technologies to solve real-world problems across US Corporate Functions, including Fraud, AML, Finance, and Risk.

Responsibilities

- Innovate at the forefront, applying cutting-edge technologies, including AI and agentic tools, to solve real-world problems across US Corporate Functions, including Finance, Risk, Law, and Audit
- Direct the migration of the facility'the RBC careers portal applications to Azure, design and build hybrid solutions that remain reliable, secure and scalable in both environments
- Provide practical development and management of application integration plans, integrating AI solutions where they add value, from design to production deployment, with committed delivery times.
- Architecture and design of driving solutions for APIs, web services, SSO and security, and messaging (Kafka or MQ), with a focus on performance, security and compliance
- Build and maintain back-end APIs and web services, providing heavy integration work in SSO and security, and messaging by Kafka or MQ.
- Drive and lead the integration of CNB entities, ensuring seamless business adoption of target solutions in collaboration with Target Tech teams
- Consolidate applications from CNB Finance & Audit Tech to Target RBC Common Platform through strategic alignment with business stakeholders
- Carry out substantial data work, including scripting (Python) and data pipeline development
- Lead, mentor and develop a team of engineers who set standards of technical direction and quality.
- Maintain a practical understanding of the company's operations, including shared services, Spunk, elastic and performance monitoring

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- Promote inter-functional collaboration by engaging in discussions with industry stakeholders to collect requirements, refine visions and align AI initiatives with strategic objectives to translate into achievable AI strategies
- Develop and deploy native cloud AI/ML solutions using AWS, Azure or GCP, ensuring scalability, reliability and efficiency through Kubernetes, Docker, etc.

Qualifications

- 7+ years leading an engineering team, staying hands-on and stepping in to unblock delivery when needed
- Software engineering context with at least one of the following languages:.NET, Java, or Python
- Solid experience building and integrating APIs and web services across SSO, security, and messaging through Kafka or MQ, with the ability to drive architecture and design decisions focused on performance, security, and compliance
- Experience in on-site applications migration to cloud platforms (Azure, AWS or GCP) and in the design and execution of hybrid solutions in both environments
- Competence to translate operational requirements into technical roadmaps and identify AI-oriented transformation opportunities aligned with corporate strategy
- High data skills, including ETL experience, data orchestration, Python script or data pipeline construction
- Experience the development and deployment of cloud-native solutions with Kubernetes and Docker, with exposure to AI or ML solutions in production
- Experience in delivering integration plans on time, including managing architectural changes
- Ability to collaborate with business and business stakeholders, collect requirements and align technical work with strategic objectives

Assets

- Experience scale and deployment of AI applications in cloud environments with model optimization, latency reduction and performance monitoring
- Experience with Retrieval-Augmented Generation (RAG) systems and vector databases for knowledge retrieval
- Solid foundation in prompt engineering and AI based SDLC (Claude, GitHub Copilot)
- Familiarity with Python and AI (LangChain, AutoGen, CrewAI)
- Understanding AI Officer Architectures, Autonomous Decision-Making Systems and Multi-Agent Collaborative 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.
- Ability to make a difference and have a lasting impact.
- Join a collaborative team that works at a high standard and looks for new ways to improve.
- Opportunities to do challenging work

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.

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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 R0000191970 on the RBC careers portal.

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