Senior Manager, AI Engineering (.NET)

Requisition	R0000191833
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
Date in the description	November 6, 2026
Posted deadline	December 26, 2026
Last day to apply	December 25, 2026
Business area	TECHNOLOGY AND OPERATIONS
Employment status	Regular
Work schedule	Full time · 37.5 h per week
Pay type	Salaried

The position

The Senior Manager, AI Engineering will lead a team delivering engineering solutions for –Fraud, AML, Finance, and Risk capabilities across global groups. The role combines hands-on technical work with people leadership and stakeholder relationship management.

This role is central to the future restructuring of U.S. business functions with advanced technology. You will lead a team of engineers, guide technology and ensure the successful delivery of scalable, production-ready solutions. You will be the champion of the adoption of AI technologies, machine learning and new technologies, while leading the integration of US CNB Functions technology into –Fraud, AML, Finance and Risk with RBC Enterprise offerings and taking charge of the applications you deliver.

You will build strong relationships with business and technology leaders across the organization, manage stakeholder expectations, and prepare executive updates. Your strong foundation in software development and cloud systems will allow you to stay hands-on and step in wherever delivery needs it most.

Responsibilities

- Pioneer End-to-end solutions, from prototyping to deployment, with the full life cycle of AI initiatives, including architectural changes and lead times
- Manage applications, including application control assessments, data certificates, security vulnerability restoration and operational hygiene
- Lead, mentor and train a team of engineers and entrepreneurs, establish technical guidelines and quality standards
- Support the team by integrating tests, development and architecture analyses, remaining practical to unlock delivery and guide the team towards sound engineering decisions
- Lead the integration of US Functions CNB applications into the RBC joint platform, in collaboration with business stakeholders and technical task teams to ensure smooth adoption.
- Gathering requirements and translating operational objectives into achievable technical strategies, in partnership with business and technology leaders.
- Conducts solution architecture and engineering design decisions for platform integration and needs, with emphasis on performance, safety and compliance.
- Build and deploy cloud-native solutions on AWS, Azure or GCP, using Kubernetes and Docker to ensure scalability and reliability

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- Maintain a practical understanding of the company's operations, including shared services, Spunk, elastic and performance monitoring, to support health and incident enforcement responses.
- Address ethical issues of AI, data governance and regulation in financial services
- Prepare updates and manage stakeholder expectations in global teams
- Create & contribute to AI first mindset within team by coaching and mentoring colleagues
- Establish and maintain strong relationships with stakeholders in global teams, transforming complex technical information into clear and non-technical terms to support informed decision-making.

Qualifications

Requirements

- 7+ years of experience leading a team of engineers, with a practical approach that remains close to code and steps to unlock delivery as needed
- The role requires a solid technical experience, with practical experience for integration tests, and development with one or more languages (.Net, Java, Python)
- Experience in designing, building and deploying cloud-native solutions on AWS, Azure or GCP, using Kubernetes and Docker, and guiding teams for scalable and reliable results
- Experience of leading-edge teams that extend and deploy cloud-based applications, reduce latency and monitor performance, have development solutions to production
- Experience of guidance teams on API design, caller integration and data orchestration, with a solid foundation in the ML fundamentals to inform sound engineering and delivery decisions
- Experience in post-implementation support applications, including incident response and practical knowledge of business operations, such as Spunk, Elastic and performance monitoring
- Experience in solution architecture and design decisions, with a focus on performance, safety and compliance
- Strong relationships with the ability to translate technical information into clear, non-technical terms and prepare management updates
- Well documented in Agile and Kanban methodologies, with a proven record of technical performance conduct, management of sprint or flow-based planning, and maintenance of predictable and scheduled work.
- Understanding data governance, ethical considerations in AI and regulation

Assets

- Exposure to fraud or the areas of the AML, with an understanding of fundamental concepts and banking terminology
- Operating experience in a regulated environment, with an understanding of compliance requirements and their impact on technical service delivery
- Experience with large language models (LLM), transformer-based architecture and fast engineering techniques
- Practical experience of retrieval-enhanced generation systems (RAG) and vector databases for knowledge research
- Knowledge or experience in rapid engineering and AI-based SDLC (Claude, GitHub Copilot)
- Familiarity with Python and AI (LangChain, AutoGen, CrewAI)
- Familiarity with AI decision-making frameworks and multi-agent problem-solving strategies, including experience with agent architecture design

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.

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- 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, Quality Management, Needs Analysis, Waterfall Model

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 R0000191833 on the RBC careers portal.

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