Senior Manager, Fraud Detection & Optimization

Requisition	R0000192823
Employer	Royal Bank of Canada
Canadian locations	Toronto (Ontario, Canada)
Primary address	600 QUEENS PLATE DR, TORONTO, ON M9W 0A4, Canada
Posted	November 16, 2026
Last day to apply	November 26, 2026
Posted deadline	November 27, 2026
Business area	PERSONAL & COMMERCIAL BANKING
Employment status	Regular
Work schedule	Full time · 37.5 h per week
Pay type	Salaried

The position

What's the opportunity?

You will help lead a team of Data Scientists and Fraud Analysts in applying advanced methodologies to develop effective and balanced fraud detection and client treatment strategies across products and channels. You will work with Fraud Data Science & Analytics (DSA), Fraud Strategy, Operations and IT teams, to optimize and balance performance across the fraud pillars - fraud loss, operating cost, client experience and risk framework. You will improve our ability to leverage technologies and data streams to enhance real-time decisioning capabilities. You will ensure effective fraud prevention and detection rules across several decision engines, and appropriate resourcing across product squads.

Responsibilities

- Data scientists and fraud analysts are the main players in developing an effective and balanced fraud prevention and detection program through a set of best-performing rules and predictive models of fraud.
- Develop and implement standards, routines and monitoring mechanisms to improve overall team efficiency and effectiveness;
- Explore new analytical solutions, technologies and methodologies to strengthen the bank's global leadership position in the fraud sector
- Collaborate effectively with partners in Fraud IT on the continuous improvement of the fraud decisioning ecosystem
- Maintain a strong and collaborative relationship with anti-fraud strategy and operations in product teams, focusing on emerging fraud risks and developing interdisciplinary approaches to mitigate fraud
- Ensure that all functions (applications and procedures) within the team are performed in a manner that takes into account risks and that verification controls and information security controls are consistently met.
- As an expert in data detection and fraud, support the strategic priorities of Fraud Management and various analytical exercises and data extractions

What you need to succeed

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Requirements

- 5 years and more experience in data science, machine learning, data extraction or statistics
- Diploma in mathematics, statistics, computer science or other related field
- Ability to conduct complex data analysis on large volumes of data and to present findings to stakeholders
- Experienced practical knowledge and experience of analysis software and different programming languages (e.g. SAS, R, SQL, Python, etc.)
- Demonstrated experience in big data technologies (Hadoop, Hive, Apache Spark, etc.)
- Exceptional communication and presentation skills, including the ability to effectively communicate analytical recommendations to technical and non-technical audiences
- Demonstrated leadership and demonstrated ability to lead data analysis teams
- Strong critical capacity for reflection and analysis with the ability to solve complex problems and develop data-based solutions

Assets

- Graduate degree in mathematics, statistics, computer science or other related fields
- Knowledge of data on payments transactions and financial fraud in the banking and payment sectors in Canada

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 comprehensive Total Rewards Program
- Leaders who support your development and opportunities
- Ability to make a difference and have a lasting impact.

Job Skills

Artificial Intelligence (AI), Big Data Management, Data Mining, Data Science, Decision-making, Machine Learning (ML), Natural Language Processing (NLP), Predictive Analytics, Python (Programming Language), Statistical 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 R0000192823 on the RBC careers portal.

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