Data Solutions Architect

Requisition	R0000192367
Employer	Royal Bank of Canada
Canadian locations	Toronto (Ontario, Canada)
Primary address	600 QUEENS PLATE DR, TORONTO, ON M9W 0A4, Canada
Posted	November 17, 2026
Last day to apply	December 17, 2026
Posted deadline	December 18, 2026
Business area	TECHNOLOGY AND OPERATIONS
Employment status	Regular
Work schedule	Full time · 37.5 h per week
Pay type	Salaried

The position

The Investor Services Business Technology Principal Data Solution Architect plays a key role in developing and executing the Investor Services data architecture strategy. You will provide solutions, data roadmaps and technical leadership, partnering across IT, operations, and business stakeholders to drive end-to-end data and solution architecture. You will identify and leverage technologies, tools, and best practices, including AI, to support transformational initiatives and future growth strategies. You will also help shape how AI is used in everyday work and how Investor Services data is prepared to power AI solutions.

Responsibilities

- Run the data architecture strategy, including MongoDB's Operational Data Store and DataBricks for data analysis, and define the future status with technical teams, business partners and third parties.
- Define end-to-end solution architectures, including component design, integration models, data flows and non-functional requirements such as scalability, performance, resilience, security and data quality.
- Evaluate solutions options and compromises (construction, purchase, reuse), assess viability against project schedule, budget and quality, and present solutions to stakeholders and certification boards, including the Architecture Review Committee.
- Provide technical leadership and mentoring to capacity and project teams since the creation of ideas, identifying technical issues, risks and mitigation approaches.
- Work with enterprise architecture, enterprise data architecture, security architecture, infrastructure SMEs, the Investor Services Data Management Office and technology stakeholders to align the data and solution architecture with priorities.
- Manage the application portfolio for technology currency, business agility, business fit, efficiency, and TCO, and identify requirements for new infrastructure and consolidation opportunities.
- Develop architectural artifacts (architecture master plan, architectural decisions, solution design, capacity roadmap, RPD) in line with RBC practices, and discuss them with senior architects, business architects and program stakeholders.
- Review project-level architectures and detailed designs to follow the program-level solution architecture and associated roadmaps.

Qualifications

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Requirements

- 8+ years of experience in data architecture and solution design, including data repository technologies, application and data design, interfaces and tuning.
- Experience in designing end-to-end solution architectures, including integration models and non-functional requirements.
- Strong understanding of data governance principles and ability to lead practical implementation.
- Technology pile: Investor Services Data Technologies, MongoDB, DataBricks, Kafka, Spark, Java.
- Strong analytical, consultation, communication and facilitation skills, able to assess options, make decisions quickly and deliver in an intense environment with multiple stakeholders.

Assets

- TOGAF 9.2 and OPEN CA Level 2.
- Custodian bank experience.

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.
- Capacity to make a difference and sustainable impact
- Join a collaborative team that works at a high standard and looks for new ways to improve.
- Flexible work/life balance options
- Opportunities to do challenging work
- Opportunities for progressively fulfilling greater responsibilities
- Access to a variety of job opportunities across business

Job Skills

Architectural Modeling, Big Data Architecture, Cloud Data Architecture, Collaboration, Critical Thinking, Data Architecture Development, Data Architecture Principles, Data Designing, Data Warehousing (DW), Decision Making, Enterprise IT Architecture, Information Technology Consulting, Information Technology Trends, Leadership, Multi-Level Communication, Physical Database Design, Taking Initiative

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 R0000192367 on the RBC careers portal.

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