# Senior Software Quantitative Engineer

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| **Requisition** | R0000186840 |
| **Employer** | Royal Bank of Canada |
| **Canadian locations** | Toronto (Ontario, Canada) |
| **Primary address** | 600 QUEENS PLATE DR, TORONTO, ON M9W 0A4, Canada |
| **Posted** | October 27, 2026 |
| **Date in the description** | September 4, 2026 |
| **Posted deadline** | November 30, 2026 |
| **Last day to apply** | November 29, 2026 |
| **Business area** | Finance and Insurance |
| **Employment status** | Regular |
| **Work schedule** | Full time · 37.5 h per week |
| **Pay type** | Salaried |

## The position

This position is responsible for the development of logically-intensive components of the digital asset management platform. Works on computer libraries, along with API services that interact with these libraries and other parts of the platform. The main focus for the position will be on the implementation of software used in portfolio optimization, Monte Carlo simulations, trading algorithms, financial health scores and probability assessment models used in the development of a wealth management platform.

## Responsibilities

- Develop quantitative and portfolio management software using Python
- Design/test/maintain/improve the core trading and research applications being developed
- Develop a code to extract data from various sources to support model development
- Collaborate with the team on best practices
- Conduct portfolio optimization research, conduct return tests and implement trading models

### Qualifications

## Requirements

- 5 years and more of software development in a quantitative financial domain
- 3+ years of professional experience in large-scale Python applications/API construction
- Bachelor of Economics/Finance/Mathematics, Computer Science, Statistics or other relevant disciplines or equivalent experience.
- In-depth knowledge of quantitative concepts, including applied statistics
- Experience using libraries and analytical frameworks such as TensorFlow, scikit, NumPy
- Strong Problem Solving Skills
- Knowledge (or interest) of finance/personal economy
- Experience in algorithm design or development
- Work experience with RESTful APIs
- Experience with Python API frames like Django, Flask

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## Assets

- Master’s degree or Ph.D. Preferred.
- Experience with Cloud (AWS or Azure) and containerization is a great plus
- Experience in preferred financial services
- Experience in developing financial models in behavioural finance or asset management
- Knowledge and ability to apply the following concepts to solve data problems; natural language processing, automatic learning, conceptual modelling, statistical analysis, predictive modelling and hypothesis testing

## 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.
- Opportunities to do challenging work
- Opportunities to assume progressively greater responsibilities.

## Job Skills

Communication, critical thinking, detailed orientation, financial instruments, analysis of investment banks, analysis of investments, personal development, personal initiative, quantitative methods, risk management

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 R0000186840 on the RBC careers portal.

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