

TRANSPORTATION SYSTEMS ENGINEER

REGULAR FULL-TIME

As one of the fastest growing cities in Canada, City of Surrey is a globally recognized leader in building vibrant, sustainable communities through technology and innovation. City of Surrey employees are talented innovators, inspired by meaningful work and the opportunity to drive our city—and their careers—forward. ***Build a City. Build a Future*** *at the City of Surrey.*

EMPLOYMENT STATUS

Exempt – Regular Full-Time

SCOPE

Surrey is one of Canada's fastest-growing cities, with over 700,000 residents, placing increasing demand on reliable transportation systems and operations.

This role supports the day-to-day reliability and resilience of transportation systems operations, including the Traffic Management Centre (TMC), field infrastructure, communications networks, applications, and transportation data systems. The focus is on maintaining reliable, high-performing systems while delivering modernization and continuous improvement within a specialized vendor environment with structured procurement processes.

Reporting to the Transportation Systems Manager, the Transportation Systems Engineer provides technical guidance, supports staff in day-to-day operational matters, and works closely with IT, vendors, and external agencies. The role contributes to delivery and reliability of transportation systems across field infrastructure, communications, central systems, and data, ensuring systems operate reliably and evolve to meet growing service demands.

RESPONSIBILITIES

- Lead projects and guide staff to deliver reliable day-to-day operations.
- Provide technical support for operation, maintenance, and reliability of transportation systems, including system health monitoring, incident response, and cybersecurity.
- Support planning and delivery of lifecycle management and modernization of transportation systems, including field equipment, communications, central systems (TMC), and applications.
- Coordinate with vendors, partners, and procurement processes to deliver and support systems and services.
- Support the Transportation Data Program including improving data quality, availability, and operational use.
- Provide engineering oversight and technical recommendations in transportation systems matters.
- Prepare contracts, requests for proposals and quotation documents for assigned projects, including terms and conditions, scope of work definition, technical requirements and specifications, project specific requirements, and project schedule constraints.
- Assist the Transportation Systems Manager with engineering and City responses, including issues related to system performance, regulations, incidents, and plans.



QUALIFICATIONS

- A degree in Electrical Engineering or a related discipline with a strong focus on transportation electrical systems and related communications, or infrastructure systems engineering.
- 5 years of experience in North American transportation systems engineering, including planning and delivery of operational systems, infrastructure, or capital projects within an operational technology (OT) or integrated IT/OT systems environment, or an equivalent combination of education and experience.
- Eligible for registration as a Professional Engineer (P.Eng.) or Engineering Licensee (Eng. L.) with Engineers and Geoscientists of British Columbia.
- Experience supporting OT operations, systems, or infrastructure in a complex environment, with involvement in system implementation, upgrades, or lifecycle management.
- A valid and unrestricted B.C. driver's license is required.
- Alignment with the City of Surrey's Core Values of Community, Service, Integrity, Innovation, and Teamwork.

OTHER INFORMATION

Salary Information
P2 Salary Range: $115,641 - $136,048

APPLY

If you are interested in this opportunity, please apply at https://www.surrey.ca/careers, Job ID 7418.

This Posting Closes on December 4, 2026.