

| Position Identification |                                       |  |               |
|-------------------------|---------------------------------------|-------------------------------------------------------------------------------------|---------------|
| Position Title          | Fleet Project Engineer                |                                                                                     |               |
| Position Replaces       | Fleet Technology Engineer             |                                                                                     |               |
| Position Level          | Employee                              | Position Code                                                                       | 1602          |
| Pay Group               | Group 12                              | Date (last revised)                                                                 | Jan-24        |
| Supervisor Title        | Supervisor, Fleet Project Engineering | Sup. Position Code                                                                  | 1404          |
| Additional Requirement  | CRC                                   | N/A                                                                                 |               |
| Division                | Asset Management                      | Flexible Work Arrangement                                                           | Flexible Work |

## Organizational Description

BC Transit is a provincial crown corporation responsible for the overall planning and delivery for all of the different municipal transportation systems within British Columbia, outside Greater Vancouver.

**Our Mission:** Delivering transportation services, you can rely on

## Department Summary

Fleet Project Engineering supports technical and engineering projects related to transit bus fleet procurements, technical specifications, project management, and integration support for on-bus technology. In addition, the department is responsible for the quality management program for the manufacture and refit work of BC Transit's fleet.

## Job Overview

Reporting to the Supervisor, Fleet Project Engineering the Fleet Project Engineer will be involved in providing engineering, technical guidance and analysis pertaining to fleet procurement, modifications, performance and environmental impact and sustainability related to BC Transit's fleet assets.

## Key Accountabilities and Expectations

| Key Accountability                        | Expectation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Procurement Support</b>                | <ul style="list-style-type: none"> <li>• Supports the Fleet Technical Specification program for fleet procurements with the management of specification and fleet standards documentation. Ongoing responsibilities of this program include document management, stakeholder engagement, change requests and approvals, and maintaining a revision history.</li> <li>• Supports the Fleet Management division through participation in procurement activities for the procurement of fleet, services, technologies or other as required.</li> </ul>                                                                                                                                                                                                    |
| <b>Quality Management</b>                 | <ul style="list-style-type: none"> <li>• Supports Fleet Procurement, Retrofit and ITS Integration projects with Quality Assurance planning through the management and adherence to the Fleet Technical Specifications and standards. This will also include planning Validation and Performance Testing, and non-conformance issue management as part of Build Quality Inspections.</li> <li>• Provides Fleet Project Engineering and IT Departments with installation support for onboard technology systems. This includes creating installation standards for components, troubleshooting, issue management and resolution for incumbent technologies, as well as developing policy and procedures for the use new onboard technologies.</li> </ul> |
| <b>Regulations and Standards</b>          | <ul style="list-style-type: none"> <li>• Monitors regulatory agencies and governing bodies and advises internal stakeholders on changes to industry policy, standards and regulations.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Stakeholder Engagement</b>             | <ul style="list-style-type: none"> <li>• Proactively engages with vendors, suppliers, and other transit authorities to monitor industry trends and identify opportunities for continuous improvement of major bus system components, fuel efficiency, environmental impacts and life cycle performance. Provide recommendations for updates to the fleet technical specification that support fleet enhancements.</li> <li>• Supports New Bus Delivery implementation initiatives from Fleet Capital Projects to ensure required information is communicated to Fleet Technical Services and other internal and external stakeholders.</li> </ul>                                                                                                      |
| <b>Engineering Analysis and Reporting</b> | <ul style="list-style-type: none"> <li>• Performs technical evaluation, engineering analysis, and cost/benefit analysis of products and technologies, advising on the latest technical advancements, and related implications. This will include the preparation of reports, business cases, and presentations.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                             |

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|                                     | <ul style="list-style-type: none"> <li>• Supports BC Transit's Low Carbon Fleet program for clean transportation technologies, ensuring that strategies, plans and initiatives are aligned to corporate goals for improved resource utilization, reduced operating costs, and compliance with greenhouse gas reduction and carbon neutrality requirements.</li> <li>• Acts as technical advisor for fleet environment and climate action inquires and reporting for the provincial fleet.</li> <li>• Participates in the definition, execution and reporting of fleet performance and departmental Key Performance Indicators (KPIs).</li> </ul>                  |
| <b>Technical Project Management</b> | <ul style="list-style-type: none"> <li>• Oversees fleet repair projects that are associated with major fleet defects. Serves as project manager on product resolution for large high-value or high-risk issues and works with stakeholders internal and external to execute these repairs.</li> <li>• Provides management with project scope, and regular updates on budgets, schedules, project risks, and deliverables.</li> <li>• Manages, monitors and reports on in-service trials for new equipment or technology in collaboration with relevant internal and external stakeholders including Maintenance, Operations and Safety &amp; Training.</li> </ul> |
| <b>Additional Duties</b>            | <ul style="list-style-type: none"> <li>• Supports the department co-op program with mentorship activities.</li> <li>• Performs related duties in keeping with the purpose and accountabilities of the job.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                             |

### Summary of Qualifications and Job Specific Competencies

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| <b>Education</b>  | <ul style="list-style-type: none"> <li>• University degree in Mechanical Engineering or a related field.</li> <li>• Be registered or be eligible for registration with Engineers and Geoscientists BC (EGBC) as an engineer-in-training (EIT) or professional engineer (P.Eng).</li> <li>• A successful applicant, not yet registered with EGBC, must be registered within six (6) months of employment for ongoing employment.</li> <li>• A condition of ongoing employment includes EIT employees obtaining their P.Eng designation once eligible to do so and be able to demonstrate successful progress in this regard. P.Eng employees must continue to maintain active membership status with EGBC.</li> </ul> |
| <b>Experience</b> | <ul style="list-style-type: none"> <li>• Two (2) years of related experience with fleet management or the transportation sector.</li> <li>• An equivalent combination of education and experience may be considered.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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| <b>Key job-specific competencies</b> | <ul style="list-style-type: none"> <li>• Knowledge of the concepts, practices and techniques of the engineering field</li> <li>• Knowledge of concepts, practices and techniques of bus mechanics and maintenance</li> <li>• Knowledge with practices of project management, including planning and coordination skills to manage multi disciplinary projects, develop work plans and procedures, and coordinate programs</li> <li>• Research and analytical skills to identify, analyze make recommendations on new technologies</li> <li>• Knowledge of corporate strategies, functions and programs</li> <li>• Knowledge of relevant policies, procedures and legislation</li> <li>• Strong analytic skills with experience with support data driven decision making, advanced data visualization skills and formulating actionable insights out of data. Familiarization with IoT Technologies and networking is an asset.</li> <li>• Communication and interpersonal skills to build and maintain effective internal and external relationships, including all levels of staff, manufacturers, and other industry vendors and contractors</li> <li>• Problem-solving and decision-making skills to provide technical advice and engineering-related problem resolution</li> <li>• People leadership skills to guide project team members and mentor co-op student activities</li> <li>• Employees in this position are governed under the Engineers and Geoscientists Act of British Columbia and are expected to maintain their professional obligation in alignment with EGBC's most recent professional practice guidelines, bylaws and Code of Ethics.</li> </ul> |
| <b>Willingness Statement</b>         | <ul style="list-style-type: none"> <li>• Occasional travel is required to various locations, both inside and outside the province of BC up to 10% of the time.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |