

Job Title: BCRTC Test Technologist (Mechanical) (20160668)

Location: Lower Mainland

Full/Part Time: Full-Time

Regular/Temporary: Regular

British Columbia Rapid Transit Company Ltd. (BCRTC) maintains and operates two of Metro Vancouver's three SkyTrain lines on behalf of TransLink, the regional transportation authority. Launched in 1986, SkyTrain is the first and one of the longest, fully-automated, driverless, rapid transit systems in the world. It boasts an average on-time service performance rating of 95 per cent and moves on average 250,000 passengers per weekday.

RESPONSIBILITIES:

OVERALL PURPOSE

The Test Technologist (Mechanical) is responsible for assisting the Mechanical Engineers in the preparation of engineering sketches, design reports, technical specifications, test procedures, analysis of equipment/system performance data and providing technical support in performing tests.

MAJOR DUTIES AND RESPONSIBILITIES

1. Works within established procedures and follows approved technical methods in designing and supervision.

- Installing, monitoring and removing prototype equipment
- designing and supervising fabrication of prototype equipment and test apparatus with high degree of innovation and creative ability.
- reviewing and updating equipment/subsystem maintenance manuals
- preparing information procedures and instructions to help the maintenance/operations personnel prepare request for service.
- performing QC inspection for new parts as required
- inspecting parts removed for train and preparing FMEA for them

2. Works independently or under the direction of the Senior Mechanical Engineer to prepare detail cost estimates, material selection, manpower requirement and schedule for an assigned project.

3. Completes assigned tasks to Company or industry standards using approved work practices and procedures.

4. Prepares test procedures and test requirements to be performed by himself/herself and/or test technicians for the purpose of investigating into the causes of equipment/subsystem failure or evaluating system performance level.

5. Prepares design sketches or shop drawings for prototype or upgraded equipment or subsystems.
6. Performs engineering and scientific calculations using state-of-art computerized facilities.
7. Understands the purpose and operation of systems and makes recommendations for hardware or procedural changes that become evident during analysis of system performance data and fault reports.
8. Marks up drawings showing changes made or discrepancies found. Initiates formal drawing or document changes with the document control department.
9. Performs hands-on operation of specialized test equipment such as data loggers, sound level equipment, waveform analysers and vibration monitors, and will analyse the test data collected in the field by himself/herself and/or test technicians.
10. Develops and prepares technical course material for instructing maintenance or operations staff of any specialized prototype equipment/system operation and provides technical information to test group in the operations of specialized test equipment.
11. Uses tools, gauges and other appropriate instruments to:
 - Install prototype equipment
 - fabricate prototype devices
 - perform quality inspection of vendor supplied materials; and
 - perform hands-on field tests.
12. Prepares material/service purchase requisitions for an assigned project.
13. Accounts for all materials used and services rendered by outside agencies in accomplishing the assignment.
14. Attends technical and safety training programs to continually upgrade skills.
15. Operates a motor vehicle with a valid BC driver's license.
16. Handles emergencies and failures in accordance with established procedures through immediate response and quick action.
17. Assists in developing equipment maintenance processes.
18. Performs related duties as assigned, such being items of a minor nature which do not affect the value of the job.

QUALIFICATIONS:

Education

The incumbent must have graduated from a recognized institute of technology majoring in the mechanical disciplines.

Valid class 5 BC driver's licence.

Experience

- Four (4) years hands-on experience in troubleshooting, testing; commissioning and start-up of equipment or systems.
- Two (2) years of design experience in an engineering environment.
- Experience in the operation of test equipment such as chart recorder, oscilloscopes, data acquisition apparatus, acoustic and vibration analysers and programmable controller are a definite requirement.
- Good working knowledge in the use of personal computers for scientific application is a must.
- Good verbal and written communication skills is also a must.
- Eligibility for registration with Applied Science Technologists and Technicians (ASTT) as a technologist.

OTHER INFORMATION:

Recruitment Process: An applicant will be required to demonstrate their suitability for this position by meeting the minimum level of qualifications and experience in order to be invited into the selection process. A standard interview format will be used including general, scenario and behavioural descriptive interview questions.

Experience with Solidworks software would be considered an asset.

Work Schedule: 40 hours per week

How to Apply - Please go to <http://www.translink.ca/careers> to apply for this position and view instructions on the process.

INSTRUCTIONS: Please save your (1) cover letter, and your (2) resume as one pdf document prior to uploading your application on-line. Please note that only those short listed will be contacted.

Having trouble applying? Please view the System Requirements & FAQ's by going to <http://www.translink.ca/careers>. West Coast Express is an equal opportunity employer.

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