TRANS LINK

Job title:	**Data Scientist**
Job ID:	20230184
Location:	Greater Vancouver
Full/Part Time:	Full-time
Regular/Temporary:	Regular

Marketing Statement

A career at TransLink and our family of companies means working with people with a wide range of skills and perspectives, all teaming up towards a common goal: preserving and enhancing the region's world-envied quality of life. Together, we connect the region and enhance its livability by providing a sustainable transit and transportation network, embraced by our communities and people.

At TransLink we are dedicated to building a workforce that reflects the diversity of the communities in which we live. We're committed to fostering an inclusive, equitable and accessible workplace, recognizing the unique value and skills every individual brings.

Looking for a great place to work where your contributions are valued and you can make a difference in a vibrant city? At TransLink, one of BC's Top Employers, you'll help make Metro Vancouver a better place to live, built on transportation excellence. Put your future in motion!

Responsibilities

In pursuit of making the region a better place to live for everyone, built on transportation excellence, this role applies solid big data manipulation and analytical methods and predictive modeling to deliver value-added data products to address moderately complex issues and provide advisory services to management for data-driven decision making, strategies development and continuous improvement. Designs and conducts visual, interactive and accessible process, reports, and tools to support effective and efficient use and communication of TransLink's transportation data.

KEY ACCOUNTABILITIES:

To advance Enterprise and regional goals, provides transportation big data analytics expertise, leadership and project management input to support the analytical development of transportation planning policies, plans and strategies as well as a range of capital and operational initiatives across the enterprise , ensuring compliance with industry best practices, professional standards and Enterprise standards, policies and procedures, and legislative requirements for work of low to moderate impact, risk and complexity.

In support of evidence-based decision-making, develops solid analysis methodologies, including

machine learning, artificial intelligence, and statistical models, to identify patterns, trends, and opportunities and support forecasting and modeling; conducts analysis of complex structured or unstructured data sets; extracts relevant insights from data and merges large data sets to create new data sets for short-term prediction and improvement; evaluates the results from the analysis and summarizes findings. Applies the findings to produce visual, interactive and accessible reports, tools, and process to support data-driven decision making in transportation planning, policy, customer experience, and strategic business decisions and ensures successful delivery and execution of work that is of low impact, risk and complexity and participating in work that is of moderate to higher impact, risk and moderate complexity.

Contributes as a member of a program/project team to manage projects of low to moderate impact, risk and complexity in designing and developing project scope, schedules, and work plans; defining and prioritizing deliverables; preparing and monitoring project budgets, ensuring compliance with department standards, policies and procedures, and the alignment to program, Enterprise, and regional goals, identifying and recommending action on planning and project risks and opportunities based on analysis of transport data, trends, and issues. Solves lower risks issues and alerts senior staff to critical issues and risks.

Seeks to understand the lived experience and transportation needs of people and businesses in Metro Vancouver, and especially of disadvantaged and marginalized groups. Identifies opportunities to integrate this understanding in plans/projects.

Collaborates and provides technical expertise and advice to leaders and professionals across the organization with a view to optimizing planning services and project outcomes.

Delivers visualizing data insights service for both technical and non-technical audiences and users. Develops and presents value-added data products to management for decision-making, tactics development and continuous improvement. Develops technical reports and presentation materials to support discussions with Executives, elected and appointed officials, including the Board and Mayors' Council.

Nurtures collaborative relationships with internal colleagues and external stakeholders including advisory committees, staff at other government and public agencies, and other organizations and interest groups in order to understand needs, maintain open communication, provide technical support and advice, and proactively resolve issues of low to moderate impact, risk and complexity.

In support of advancing Enterprise and regional goals in open, inclusive and collaborative ways and engagement with external audiences, collaborates with internal stakeholders to   design,

collect, analyze and report out on research and analytics to help identify issues and opportunities.

Oversees the work of contractors and consultants; provides work direction and monitors contract compliance.

Provides coaching, mentorship and technical guidance, and input on development and performance management to junior planning staff where applicable.

Qualifications

EDUCATION AND EXPERIENCE:

Typically requires four (4) years of related experience and a Master's degree in statistics, engineering, applied mathematics, advanced computing or related discipline with strong emphasis on big data analytics and other analytics methods and application.

OTHER REQUIREMENTS:

Advanced knowledge and skills to wrangle, analyze and interpret big and complex data using analytical methods, applied mathematics, statistics, computing, machine learning, data engineering and visualization expertise to deliver actionable insight for TransLink's transportation projects, policies and plans

Solid analytical skills including the ability to identify and communicate transportation planning and project-related risks and opportunities in an integrated, multi-disciplinary environment; includes skills to analyze transport data, trends, and issues

Advanced technical skills in programming languages such as SQL, Python, R, and in visualization software such as Tableau and Power BI.

Solid leadership skills with the ability to communicate and provide technical guidance and expertise to other transportation planning professionals and to lead projects

Strong oral and written communication skills including the ability to write and deliver well-prepared reports and presentations

Strong interpersonal skills including the ability to build trust by consulting with internal and external contacts and applying a team approach as needed to achieve solutions. Includes negotiation skills to make refinements to contracts and to conflict resolution at a basic level of risk and complexity.

Solid decision-making skills including the ability to resolve transportation planning and project-related issues within defined limits or outside of the policies, and to identify and know when to refer issues to others.

Other Information

TransLink is looking for skilled, motivated Data Scientists to join TransLink's Bus Priority Programs.

The Bus Priority Programs team is responsible for planning, conceptual design, and funding of bus priority measures ranging in scale from individual hotspot treatments to full corridors. We are a team of planners, engineers, data scientists, project coordinators, and public affairs staff.

The Data Scientist is the subject matter expert on bus speed and reliability data. They are responsible for maintaining and developing tools and process to support data-driven decision-making about investments in bus priority measures. They develop data visualizations for both technical and non-technical audiences and users. As a member of the Bus Priority Programs team, the Data Scientist is expected to develop a firm grasp of transit planning and issues pertaining to bus priority infrastructure design and implementation.

Better bus service improves access, equity, and opportunity for women, people of color, people with disabilities, and people from working class backgrounds. Their lived experience matters in conversations about transportation. Therefore, people from these or other equity-seeking groups are strongly encouraged to apply.

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.

Work Schedule

37.5 hours per week.

Work Designation

Hybrid - This position offers the flexibility of working both on-site and remotely within B.C.

Rate of Pay

Salary: $82,908 - $103,634 per annum (Actual salary offered will be commensurate with education, experience and internal parity).

The Total Compensation Package includes Extended Health, Dental, Transit Pass and enrollment in the Public Service Pension Plan. Focus on your development through tuition reimbursement, training, and mentorship programs. Enjoy a variety of health and wellness programs, including access to gym facilities. Speak to us to know more about what we offer.

How to Apply

Please click the 'Apply' button at the top right corner of the page or 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.

Equal Employment Opportunity

TransLink is committed to employment equity and building a diverse workforce, representative of the customers we serve and the many communities in the Metro Vancouver region. We welcome and encourage Indigenous applicants, people of colour, all genders, 2SLGBTQ+ and persons with disabilities to apply. Learn more about TransLink's commitment to equity, diversity and inclusion.

Accommodations are available on request for candidates taking part in all aspects of the selection process. For a confidential inquiry, simply email us at jobs@translink.ca.