

## Western Canada Operations Data Modeling Analyst

### Who we are:

The Western Canada team manages two extended producer responsibility programs for residential packaging and paper recycling – one in British Columbia and one in Saskatchewan.

Recycle BC is a not-for-profit organization responsible for residential packaging and paper recycling throughout British Columbia, servicing over two million households or over 99% of BC. We ensure packaging and paper products are collected from households and recycling depots, sorted, and responsibly managed and recycled. Recycle BC provides recycling services either directly to communities or by working in partnership with collectors like local governments, First Nations, private companies, and other not-for-profit organizations. Over 195 communities participate in our recycling collection program, and more are serviced by our recycling depots. Each year over 200,000 tonnes of material are collected from households and depots. Our program is funded by businesses, like retailers, manufacturers and restaurants that supply packaging and paper products to BC residents, shifting costs away from homeowners.

SK Recycles is a Saskatchewan-based not-for-profit organization that supports businesses supplying packaging and paper to meet their obligations under Saskatchewan's Household Packaging and Paper Stewardship Program Regulations. SK Recycles is responsible for management and recycling of household packaging and paper, distributed to Saskatchewan residents by businesses. We partner with local governments, First Nations, and Métis communities, private companies and other organizations to collect these materials and work with businesses and organizations to receive, sort, and recycle, so that all packaging and paper can become new materials. To advance packaging and paper recycling, SK Recycles will provide support and education, while expanding opportunities to make recycling easier and more consistent across the province.

### Extended Producer Responsibility

Extended producer responsibility, or EPR, is a policy approach in which producers – the businesses that supply packaging and paper to residents – are financially and, in some cases, operationally responsible for those materials over their full life cycle, including end-of-life management. Recycling programs founded on the principles of EPR have the following benefits:

- Improve recycling rates
- Facilitate investments in recycling infrastructure and technology
- Create an integrated material management supply chain
- Increase program efficiencies
- Support broader promotion and education

EPR is an effective mechanism for improving recycling rates and advancing the circular economy.

### What we care about:

We care about our business and our people. We want to work with a motivated, detail-driven team player who will build great relationships with our dedicated team, residents, partners, and other interested parties. Our values of innovation, trust, knowledge, service, and integrity should resonate with you.

We offer competitive salaries and an extensive benefits package that includes a professional development benefit, personal wellness benefit, RRSP matching program, and medical/dental group benefit coverage. Any travel expenses incurred in relation to the position, including mileage at competitive rates, will be fully reimbursed.

work in a hybrid work environment that enables team members to work at the SK Recycles office in Saskatoon, the Recycle BC office in North Vancouver, or a remote work location.

### Position Overview:

The **Western Canada Operations Data Modeling Analyst**, reporting to the Western Canada Manager, Operations Data, plays a key role in driving operational excellence and continuous improvement across all Western Canada programs. This role is responsible for developing and maintaining advanced data models that enable predictive and prescriptive analytics, simulation-based decision support, and network flow optimization.

The analyst will collaborate with cross-functional stakeholders to comprehend business requirements, transform raw operational data into clean, structured, and scalable models, and produce actionable insights that inform collection routing, resource planning, and performance management. This role encompasses **advanced analytics, operational data engineering, and decision-making**, ensuring that data-driven solutions are aligned with strategic and tactical business goals.

### General Responsibilities:

- Develop and implement predictive models to forecast material volumes, contamination rates, and service demand patterns using historical and real-time data.
- Build prescriptive analytics tools to support operational decision-making, such as optimal routing, shift planning, and resource allocation.
- Leverage simulation modeling (e.g., discrete event or agent-based models) to test operational scenarios and evaluate process improvement opportunities.
- Design and maintain mathematical optimization models to enhance efficiency across the collection and post-collection logistics network, including routing, bin distribution, facility throughput, and scheduling.
- Work collaboratively with Operations and Logistics teams to translate real-world constraints into solvable models using tools like Excel based Solvers or programming language-based solvers.
- Structure and maintain foundational data models from raw operational and logistics data sources (e.g., collection events, contamination logs, vendor reports).
- Build clean, scalable, and automated data transformation pipelines using SQL, Python, or R in coordination with reporting teams. Some experience in cloud-based data ETL is desirable, but not mandatory
- Harmonize disparate data sources across jurisdictions and program types to ensure consistent, integrated modeling approaches.
- Develop intuitive decision-support tools and scenario analysis frameworks for stakeholders to evaluate trade-offs (e.g., cost vs. service level, staffing vs. volume).

- Present complex modeling results in accessible formats (dashboards, storyboards, written insights) for non-technical decision-makers.
- Support dashboard and reporting initiatives by delivering model outputs and indicators that integrate into Power BI or other visualization platforms.
- Collaborate with the Reporting Analyst to ensure modeling insights align with KPIs and metrics tracked across the organization.
- Ability to convert into dashboard concept that can be implemented by reporting analysts
- Engage stakeholders from Supply Chain, Operations, Sustainability, and IT to define modeling requirements and validate outputs.
- Document modeling assumptions, data dictionaries, and business logic clearly to ensure transparency and reproducibility.
- Maintain data governance practices to ensure data integrity, traceability, and alignment with enterprise systems (e.g., SAP, AWS).
- Evaluate current operational processes and identify opportunities for data-driven improvements through automation, optimization, and experimentation.
- Contribute to technology pilots (e.g., route sensors, AI-driven contamination detection) by integrating results into models or decision tools.
- Promote a Continuous Improvement mindset within the data and operations teams, identifying standardization and automation opportunities.

#### **Skills and Attributes:**

- Proficiency in Power BI, including strong skills in DAX, Power Query, and visual storytelling.
- Comfortable with data wrangling using Excel, Power BI, and scripting tools like R or Python.
- Familiarity with SAP ecosystems including SAP Business Warehouse (BW) and SAP S4/HANA.
- Understanding of cloud-based analytics infrastructure such as AWS Redshift, S3, and Glue, or readiness to learn.
- Foundational or intermediate experience in predictive modeling, simulation, optimization, or anomaly detection using Python, R, or a similar toolset.
- Ability to translate operational questions into data-driven models and scenario analysis.
- Good understanding of Agile Delivery platform along with understanding of Agile principles
- Awareness of or hands-on experience with ETL design, pipeline automation, or scripting to streamline data delivery.
- Ability to support the transition from manual reporting to automated, scalable modeling frameworks.
- Exposure to CRM platforms (e.g., C4C), Microsoft Dynamics, and cloud tools such as AWS.
- Basic working knowledge of JIRA, SharePoint, or other workflow/project management tools.
- Comfort with version control and structured deployment/release processes.
- Strong analytical and problem-solving skills with attention to operational impact.
- Ability to clearly communicate technical concepts to non-technical stakeholders.
- Effective cross-functional collaboration and relationship-building skills.

- Strong organizational and time management capabilities.
- Self-starter who can work independently while aligning with evolving business needs

#### **Qualifications**

- Post-secondary education in Data Science, Operations Research, Applied Mathematics, Engineering, Computer Science, or Business/Operations Analytics is highly desirable.
- Additional coursework or certifications in optimization, simulation, or statistical modeling is an asset.
- Master's Degree or Minimum of 2 years of experience in the data analytics field, with exposure to operational data in logistics, supply chain, utilities, or related fields.
- Hands-on experience in reporting, visualization (Power BI), and data transformation using Power Query or Excel.
- Experience or strong interest in optimization modeling, simulation, and predictive/prescriptive analytics applied to real-world operational processes.
- Exposure to data engineering workflows and transitioning analytics environments (e.g., SAP BW to cloud platforms like AWS) is an asset.

#### **Additional Information**

- Flexible work arrangement: travel to Recycle BC and SK Recycles office for meetings or activities on a frequency to be determined plus when notified that attendance is required.
- Travel may also be required to attend workshops and conferences.
- Peak work period (quarter reporting, business planning/budgeting) may require extended hours.

To apply for this role, please submit your resume via email to [david@summitsearchgroup.com](mailto:david@summitsearchgroup.com).