

# Position Profile

**Position Title:** Data Scientist

**Reports To:** Director of Research and Strategic Foresight

**Organization:** Labour Market Information Council (LMIC)

**Location:** Ontario (Remote)

## About the Labour Market Information Council

The Labour Market Information Council (LMIC) team is a group of passionate and skilled professionals striving to strengthen the pan-Canadian ecosystem of labour market information to meet the evolving and diverse needs of Canadians. We seek to empower Canadians to make informed decisions by enabling access to quality, relevant, comprehensive data and insights across the pan-Canadian LMI ecosystem. This facilitates better-informed decision making by employers, workers, job seekers, researchers, policy makers, educators, career practitioners, students, parents, equity-seeking groups and other stakeholders.

This work is performed in the context of a rapidly changing labour market ecosystem, including evolving government/stakeholder needs and products, the availability of high-frequency 'big data,' and the growth of private sector LMI providers. LMIC analysis, products, activities, and strategy recommendations must be informed by valid, up-to-date, relevant, and accurate information that reflects the dynamic nature of these factors and their associated interactions.

Our efforts are guided through engagement with federal, provincial and territorial governments, intermediary service organizations, academic researchers and private sector partnerships.

More information on the LMIC and its projects can be found at <https://lmic-cimt.ca>.

## Work Requirements

LMIC is looking for a data scientist to support and effectively leverage LMIC's cloud-based data infrastructure. The data scientist will be integrated as a core part of LMIC's team, whose work will leverage LMIC's cloud-data infrastructure to support senior economists, researchers, and communications initiatives. They will also help integrate metadata schemas from disparate datasets.

In addition, the successful candidate will work with internal and external data architecture experts to support the development of data management pathways for ingesting large streams of data points from various online vendors, public websites and bespoke data files. A critical part of this work will be creating innovative solutions for linking disparate datasets and producing deliverables that LMIC can disseminate to the broader public to better access and understand Canada's labour market ecosystem. Expertise in SQL, Git, Python, GCP BigQuery or similar experience with R, as well as experience working in a cloud infrastructure (GCP) will be strong assets. Experience with the data ingestion and transformation process would also be an asset.

The data scientist will also be expected to support senior economists and supplement qualitative research by recommending or conducting data analysis and research. This includes cleaning and organizing a variety of data from different sources for one-off use and helping to

extract salient insights and patterns in the data. The data scientist will also support the team's design of empirical research projects that utilize advanced econometrics and statistical approaches to ensure LMIC is leveraging the full potential of available data.

## Key Responsibilities

- Support the development and maintenance of LMIC's data infrastructure
- Help create and apply metadata schemas
- Work with external data architecture experts to support the development of data management pathways for ingesting and transforming large streams of data points from various online vendors, public websites, and bespoke data files
- Identify and link disparate datasets that will create innovative solutions
- Help the data analysis and research being conducted on an ongoing basis by the economics team
- Clean and organize a variety of data from different sources for one-off use and help to extract salient insights and patterns in the data
- Support the team's design of empirical research projects that utilize advanced econometrics and statistical approaches
- Effectively clean disparate data sources and link structured results within new metadata schemas
- Provide recommendations for improving research methods, research tools and information products to ensure the alignment of high-quality approaches

## Qualifications and Knowledge Domains

- A master's degree in computer science, economics, or other data-driven field. Other combinations of education and work experience will be considered
- Experience working with cloud computing systems (GCP, AWS, Azure)
- Strong programming skills and knowledge of algorithms and data structures (SQL, Git and R or Python)
- Knowledge in forecasting and predictive analytics techniques
- Understand the relative value of various datasets pertaining to labour markets and how various components can help fulfill end-user needs
- Help drive transformation by continuously looking for ways to automate existing processes and testing and optimize data quality
- Apply problem-solving, critical thinking, creativity, organizational, design, and interpersonal skills in the context of a multifaceted and fast-moving project
- Effectively cleaning disparate data sources and linking structured results within new metadata schemas
- Ability to work independently and establish priorities that meet organizational deadlines.
- Effectively collaborate with other parts of LMIC to ensure alignment of deliverables, including reports, data visualizations, presentations, etc.
- Adaptable to changing organizational needs
- Provide recommendations for improving research methods, tools, and information products to ensure the alignment of high-quality approaches

## Assets

- Bilingualism in both official languages
- Knowledge of labour economics and labour market policies in Canada
- Superior written and verbal communication skills
- Experience developing and maintaining cloud-based data resources

## Location

LMiC's head office is in an accessible building in downtown Ottawa, and LMiC currently operates in a flexible remote work environment. As a pan-Canadian organization, we welcome applications from remote and home-based candidates anywhere in Canada. Note that there may be travel, as required.

## Inclusion

At LMiC, we are committed to workplace inclusion. Candidates of all backgrounds, including but not limited to individuals with international experience, newcomers to Canada, women, Indigenous persons, persons with disabilities, members of visible minorities, and persons of various gender identities and sexual orientations, are encouraged to apply. We welcome the opportunity to discuss accommodations at any point in the application process.

## Compensation and Benefits

The positions provide a competitive total rewards package that aligns with the skills and competencies of the individual and includes extended health coverage, flexible work/life policies, vacation, sick and personal leave and retirement benefits.

The salary range for this position is \$85,000 - \$105,000, commensurate with the candidate's experience and qualifications.

## How to Apply

Interested candidates are invited to forward an up-to-date resume along with an expression of interest outlining how your experience and qualifications align with the role to [careers@lmic-cimt.ca](mailto:careers@lmic-cimt.ca) **no later than May 2, 2025**.

Please use the **code DS-01** in the subject line of your application.

## Contact Information

If you require accommodations, alternative job posting formats, alternative application methods, or any other support with your application, please contact our Director of Human Resources at [lfebyre@lmic-cimt.ca](mailto:lfebyre@lmic-cimt.ca), and we will work with you to meet your needs.