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Data Scientist

Government of Canada · Innovation Science and Economic Development
Manufacturing and Life Sciences Branch, Ottawa Ontario

The Opportunity

Innovation, Science and Economic Development's Manufacturing and Life Sciences Branch is seeking energetic students and recent graduates studying data science, computer science, science, economics, statistics, and/or other related fields. Successful candidates will support the exciting work the Government is doing to grow innovation in Canada by developing new data sources and enhancing the analysis, use and communication of existing data products. Developing captivating data visualizations and displays to communicate innovation outcomes to Canadians will be an important part of this work. Successful candidates will collaborate with a growing data analyst community across the department to leverage the Hadoop environment to link open data and internal government big data sets to enhance analytical capacity.

The Manufacturing and Life Sciences Branch is the Government of Canada's centre of expertise on a number of economic sectors of the Canadian economy. It develops policies and provides comprehensive analysis aimed at retaining and growing competitive manufacturing sectors critical to the Canadian economy including life sciences, food, beverage, services to manufacturing, steel, chemicals, consumer products and other advanced manufacturing sectors. Working within the Branch, successful candidates will play an important role in helping to implement the Government's ambitious new Innovation and Skills Plan by leveraging all available data to better understand innovation outcomes across these important economic sectors.

Your responsibilities

- Find creative approaches and bring new perspectives on available data to provide insight into performance across Canadian economic sectors
- Apply theories, conduct experiments, and undertake studies and tests using advanced data mining and modeling techniques
- Interpret data and trends and present material using compelling data visualizations
- Work with the Hadoop team to develop complimentary big data sets and analyze data towards understanding the link between Canadian industry performance and government policies
- Advise on best practises and approaches using available toolsets, while suggesting and helping to implement new tools
- Collaborate with internal and external stakeholders to identify opportunities to advance analytics at ISED and beyond

Your Qualifications

- Studying or recently graduated at the undergraduate or graduate level with a strong focus in data science



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- Experience analyzing large datasets
- Experience working in a Hadoop environment
- Ability to develop and execute data mining and modelling solutions
- Knowledge of open data and open source software
- Familiarity with data visualization techniques and best practices
- Strong attention to detail and excellent quantitative and qualitative analytical ability
- Passionate, energetic, enthusiastic, creative and takes initiative