

Data Scientist – Big Data & Analytics (contract : 6 months)

Vancouver, BC

About FPInnovations

FPInnovations is among the world's largest private, non-profit research centers working in forest research. The organization helps the Canadian forest industry to develop pathbreaking solutions based on the unique attributes of Canada's forest resources, favouring a sustainable development approach and taking full advantage of the industry's considerable scientific, technological and commercial capital.

At FPInnovations we have an amazing opportunity to transform the forest sector towards Industry 4.0, the current trend of automation and data exchange, in manufacturing technologies.

Description

The Data Scientist will innovate and develop methods and applications that extract knowledge and insights from big data and convert it into actionable information.

The Data Scientist will work closely with industrial clients, FPI internal staff as well as Canadian universities. The position includes conducting field experiments at various mills and forest sites.

Responsibilities

- Retrieve, prepare, and process a rich variety of data sources such as operational data from 3rd party database systems;
- Analyze and model structured and unstructured data and implement algorithms to support analysis using advanced statistics, machine learning, data mining, and operations research;
- Translate advanced data analytics problems into technical approaches that yield actionable recommendations, in diverse domains such as supply chain, forest operations, wood products manufacturing;
- Provide high quality data science services and software to FPI and to the forest industry;
- Work collaboratively with internal and external clients to identify and implement solutions to industry data analytics needs and respond to FPI members' and employees' technical inquiries;

- Use a combination of the typical Data Scientist math and analytical skills, with research, advanced business, communication, and presentation skills;
- Provide timely, relevant, coherent results (software, reports, data analyses, etc.) designed to meet the client's specific needs;
- Play a key role in developing new ideas, processes and areas of research, and continually search for creative, innovative and integrated ideas.

Qualifications

- PhD or MSc in a relevant field, e.g. Data Science, Statistics, Physics, Mathematics, Computer Science, Engineering, Wood Science;
- Proficiency with data science languages (e.g. Python, R) and software development tools and methods (e.g. version control, test driven development, continuous integration);
- Knowledge of statistical concepts such as regression, time series, mixed model, Bayesian methods, clustering, etc., to analyze data and provide insights;
- Great at solving problems, debugging, troubleshooting, designing and implementing solutions to complex technical issues;
- Any experience in the forest products industry is considered an asset;
- Excellent English verbal and written communication skills;
- Proven track record of practical industrial work, research and innovation;
- Autonomous and motivated self-starter, as well as teamwork oriented;
- Able to adapt to constantly changing demands and handle complex interactions;
- Availability for business travelling in Canada.

Please submit your resume to: Recruitment_Recrutement@fpinnovations.ca

IMPORTANT: please indicate reference # 570 in the subject line.