

Operations Research Data Scientist

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 path breaking solutions based on the unique attributes of Canada's forest resources, favoring a sustainable development approach and taking full advantage of the industry's considerable scientific, technological and commercial capital.

Description

At FPI we have an amazing opportunity to facilitate the transformation of the forest sector, including centralized & decentralized business decisions systems along the value chain.

The Operations Research Data Scientist will be responsible for delivering national research projects and industrial contracts aimed at developing and implementing practical decision support tools, including: operations research and industrial engineering tools such as optimization and simulation models, and data analysis tools such as predictive analytics, data mining, pattern recognition, data modeling and machine learning for supply chain planning and analysis.

Responsibilities

- Lead/participate in the development of advanced decision making tools, including logistics, operations research models and other industrial engineering tools;
- Analyze and model structured and unstructured data and implement algorithms to support analysis using advanced statistical and mathematical methods from statistics, machine learning, data mining, and operations research;
- Know the clients, potential clients, and those who influence these clients with in-depth knowledge of their activities and be able to foresee their long-term expectations and propose solutions;
- Respond to clients' needs;
- Identify innovations affecting the forest products industry, their commercial use, and the access to markets;
- Lead/manage projects and develop proposals;
- Present results to industrial clients;
- Collect on-site forest and mill data;

- Provide timely, relevant, coherent results (reports, data analyses, etc.) designed to meet the client's specific needs, and tailored to specific audiences;
- Transfer technology and knowledge through reports, handbooks, workshops, and presentations to members, clients and general conferences.

Qualifications

- Master's degree or PhD in a relevant field, e.g. Operations Research, Data Science or Engineering and minimum 2 years of experience (forest products industry preferred) or an equivalent combination of education and experience;
- Training and modeling experience with logistics, optimization, discrete event simulation, industrial engineering tools;
- Experience using major optimization solvers and algorithms (Gurobi, CPLEX, etc.);
- Proficiency with at least one major programming language (e.g. Python, R, C#) and software development tools and methods (e.g. version control, test driven development, continuous integration);
- Proven track record of industrial client and value focus is essential;
- Proficiency in the scientific process and aptitude for writing high-quality technical reports;
- Strong technical and analytical abilities, a knack for driving impact and growth;
- Independent, self-starter with team-working skills;
- Able to adapt to constantly changing demands;
- Strong communication skills, both oral and written, in English. French is considered an asset;
- Available to travel.

Please submit your resume to

[Recruitment recrutement@fpinnovations.ca](mailto:recrutement@fpinnovations.ca) indicating reference #580 in the subject line