

**RESEARCHER, PREFABRICATION OF BUILDING SYSTEMS –
ENGINEERED WOOD PRODUCTS**

Quebec City, Quebec

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, favoring a sustainable development approach and taking full advantage of the industry's considerable scientific, technological and commercial capital.

The role of our Innovation Centers of Excellence (ICEs) is to conduct scientific R&D and to innovate in order to meet the industry's short- and long-term objectives. The work of each ICE is focused on the development and implementation of technologies to improve the overall competitiveness of the industry on all markets.

The Building Systems Group develops knowledge about the performance of conventional and innovative wood construction components and systems. Working with other research institutes nationally and internationally and also with the design and construction communities, the Building Systems Group conducts multidisciplinary research for the wood and construction industry, including fire safety, comfort, structural performance and durability, to facilitate market acceptance and regulatory acceptance of wood-based building products and systems.

Description

Reporting to the manager of the Building Systems Group, the Researcher, Prefabrication of Building Systems, contributes to the development of solutions for the industrialization of construction.

The chosen candidate will be a senior member of the Building Systems research team. In this capacity, he will develop, propose, plan, execute and deliver proposals and innovations as well as customer service and technology deployment activities as part of research programs working to industrialize construction, and particularly in terms of prefabrication of construction systems, while respecting current codes and standards. In

this regard, he will look after developing solutions in the industrialization of construction, using timber and engineering components (e.g. lumber, OSB, beams, glulam, CLT, etc.). The work covers a variety of subjects, including structural engineering, timber and engineered wood design values, prefabrication processes and materials engineering. As a researcher, he may serve as project leader for specific projects.

The chosen candidate will contribute to the development of an operational culture that encompasses innovation, collaboration, health and safety, financial responsibility, efficient use of resources and the timely completion of research projects and contracts.

The researcher will collaborate on the various research programs and will be called upon to contribute, with teams from other FPInnovations Centers of Excellence, to ensure that the research projects present optimal value proposals and provide our members and partners with research products of the highest value.

Responsibilities

Under the direction of the Building Systems Manager, the incumbent will have the following responsibilities:

- Carry out projects related to the manufacture of engineered wood products and the prefabrication of building systems to support members in the research and development of building products and systems
- Understand the operational, tactical and strategic needs of the industry and work on sector priorities
- Gather information and proactively monitor new technologies and scientific developments related to the manufacture, prefabrication and industrialization of the industry
- Provide leadership for multiple large-scale, complex projects and teams
- Make proposals and seek contract revenue
- Represent FPI to its industrial members and partners
- Prepare and present information sessions in his field of expertise and/or as part of major initiatives
- Support innovation by improving the performance of products and systems and developing new products and processes
- Communicate effectively with the other FPInnovations teams and with the industry
- Perform numerical analyses, using his judgment in the choice/development of modeling assumptions and input parameters

- Provide scientific data to support changes to codes and standards as well as access strategies for the wood industry markets
- Supervise, coach and train technical staff while projects or contracts are being carried out

Qualifications

- Doctorate or Master's degree in wood engineering or other relevant training
- At least 10 years of experience in the engineered wood sector and construction systems, or an equivalent combination of education and experience
- In-depth knowledge of the Canadian engineered wood, forest products and construction systems industry
- Knowledge of the regulatory process for construction in North America (an asset)
- Skills in structural reliability analysis
- Strong project management skills
- Proven skills for practical work in an industrial environment
- Experience working with governments, industry, trade associations, architects, engineers and contractors (an asset)
- Very customer service oriented, with a demonstrated ability to understand and meet clients' needs
- Demonstrated teamwork skills and autonomy
- Outstanding problem-solving and analytical skills
- Excellent oral and written communication skills in French and English
- Available to travel

Please note: The masculine has been used above to include the feminine, solely for the purpose of easier reading without any intention of discrimination.

Please submit your resume to:

Recruitment_recrutement@fpinnovations.ca

IMPORTANT: Please indicate the reference number 581 on the subject line.