

**PROFESSOR IN  
PRIMARY PROCESSING-SAWING AND MACHINING**

**DEPARTMENT OF WOOD AND FOREST SCIENCES  
FACULTY OF FORESTRY, GEOGRAPHY AND GEOMATICS  
UNIVERSITÉ LAVAL**

A privileged living environment in the heart of Quebec City and the first French-language university in North America, Université Laval is a major university open to the world and recognized for its culture of excellence in teaching and research. Thanks to the Department of Wood and Forest Sciences of the Faculty of Forestry, Geography and Geomatics, Université Laval is the only university in Quebec to offer undergraduate programs in forestry and wood engineering leading to the Quebec Order of Forest Engineers or to the Quebec Order of Engineers. The Department of Wood and Forest Sciences is also responsible for the multi-faculty integrated bachelor's degree in natural and managed environments. It has 35 full-time professors or lecturers, five research chairs, three teaching leadership chairs, a research consortium, two research centers and over 500 undergraduate and graduate students. Collaborations with the Departments of Geography and Geomatics, as well as with other faculties at Université Laval, offer interesting opportunities for multidisciplinary research.

### **Job Description**

In accordance with its development plan, the Department of Wood and Forest Sciences is seeking a professor in primary processing-sawing and machining. The person recruited will be expected to teach in French at all levels, to support the various departmental programs, particularly the cooperative bachelor's degree in wood engineering, and to develop a research program in the targeted disciplines. More specifically, teaching and research activities will focus on the following fields:

1. Sawing, mill layout and wood grading.
2. Modeling, simulation and optimization of sawing.
3. Wood machining;
4. Quality control and industrial statistics.
5. Application of Industry 4.0 manufacturing approaches to primary wood processing (automation, robotics, deep learning, etc.).

Responsibilities include:

1. French-language instruction in primary wood processing and other related fields at the undergraduate and graduate levels.
2. The development of teaching materials and didactics.
3. Obtaining research funding from external granting agencies and partners to support their research.
4. Conducting research and supervising graduate students on topics related to the above-mentioned fields.
5. Participation in departmental, faculty, university and multi-stakeholder committees (with the private and public sectors).
6. Integrate with the activities of the Renewable Materials Research Center.

## **Selection Criteria**

1. Possess a bachelor's degree in wood engineering, industrial engineering or a related discipline and a doctoral degree from a recognized university or be in the process of obtaining one.
2. Have specific skills in sawmilling and in at least two other fields listed above. Have knowledge of the issues related to primary processing in Quebec and elsewhere in the world.
3. Demonstrate skills in university-based pedagogy and knowledge mobilization.
4. Demonstrate the ability to obtain funding for their research from public or private granting agencies.
5. Present a vision for the position in terms of academic pedagogy and research and propose concrete actions to achieve it.
6. Be a member of a Canadian engineering association recognized by the Canadian Engineering Accreditation Board (CEAB) or demonstrate eligibility to become a member within one year.

**Salary and conditions:** according to the collective labor agreement.

**Expected start date:** November 1, 2022

**The University values diversity and invites applications from all qualified candidates, particularly women, Indigenous Peoples, visible and ethnic minorities, and persons with disabilities. Priority will be given to Canadian citizens and permanent residents.**

**Université Laval being a francophone university, Appendix B of the collective labor agreement stipulates that a professor who does not have French as his or her mother tongue must, within a prescribed period of time, demonstrate functional language skills in oral and written French.**

Interested candidates should send a letter of interest, a one- to two-page document describing their vision and philosophy of undergraduate teaching and research, a curriculum vitae including a list of publications, and the names of three references by June 30, 2022, at 5:00 p.m. to:

Director  
Department of Wood and Forest Sciences  
Faculty of Forestry, Geography and Geomatics  
Université Laval  
Québec (Québec)  
Canada G1V 0A6

Telephone: 1-418-656-2131 x407128  
Email: [direction-foresterie@sbf.ulaval.ca](mailto:direction-foresterie@sbf.ulaval.ca)