



UNIVERSITÉ
LAVAL

Faculté de foresterie, de géographie et de géomatique
Département des sciences du bois et de la forêt

Wood Science Ph.D. Research Assistantship – Chipping processes optimization

The Renewable Materials Research Centre (CRMR) (Department of Wood and Forest Sciences - Université Laval) is seeking for a highly motivated Ph.D. candidate to undertake a research project on the optimization of chipping processes for black spruce and jack pine. The Ph.D. programme will start in May 2017. The research is part of a collaborative project funded by the Natural Sciences and Engineering Research Council of Canada (NSERC) and other industrial partners. The project aims to optimize wood chipping processes meant for bioenergy and bio-products production.

The offered position is part of an interesting and challenging project which will contribute to the improvement of the Canadian forest industry. The job will be carried out in an international environment focusing on research, industrial partnership, and innovation. The Université Laval (UL) is the oldest French-language university in North America. It is among the largest universities in Canada and a leading university in knowledge, research, and innovation in wood sciences. By choosing UL, you are opting for an intellectually stimulating campus in the beautiful Quebec City.

The specific objectives of the research project are:

- Define the chipping optimal parameters for the production of OSB, insulated panels bio-products, and bio-coal.
- Establish relationships between the cutting parameters, the geometry of the cutting tool, and the characteristics of the logs with the desired particle chip size, either wood flakes for OSB, pin/fines wood particles for composite boards or wood particles for bio-products and bio-coal.

Location: Renewable Materials Research Centre (CRMR), Pavillon Gene-H.-Kruger, Université Laval, Quebec City, Canada

Eligibility:

The candidate must hold a B.Sc. and M.Sc. degrees in wood science, mechanical engineering or a closely related discipline with preferably a wood science background. Proficiency in English and French (written and oral) communication are necessary. The studies will be held in French.

Stipend: 21 000 CAN \$/year during three years.

How to apply:

Applications must include the following documents:

1) Cover letter of motivation, 2) B.Sc. and M.Sc. academic transcripts, 3) A resume/curriculum vitae which fully describes qualifications and experience and provides contact information for three professional references.



CENTRE DE RECHERCHE
SUR LES MATÉRIAUX
RENOUVELABLES

Pavillon Gene-H.-Kruger (418) 656-2438
2425, rue de la Terrasse, Télécopieur : (418) 656-2091
Université Laval www.materiauxrenouvelables.ca
Québec (Québec) G1V 0A6
Canada

Applicants should send all the required documents to: Claudia Cáceres – Claudia.caceres@sbf.ulaval.ca

Application deadline: Applications will be received until December 30th 2016 or until the position is filled.

Links of interest:

For more information about the professor in charge of the project: Dr. Roger Hernández, please visit:

<https://www.sbf.ulaval.ca/professeurs/roger-hernandez>

For more information about our research center (CRMR), please visit:

<https://www.materiauxrenouvelables.ca/en/home/>

For more information about Université Laval, please visit:

<http://www2.ulaval.ca/en.html>

For more information about international students expenses, please visit:

<http://www2.ulaval.ca/en/future-students/education-costs-and-financing/fees-and-budgeting.html>

Graduate tuition fees – International students - Doctoral Degree with Exemption

All doctoral students can benefit of the doctoral degree exemption given by the university.

For more information about life in Quebec, please visit:

<http://www.quebecregion.com/en/>