PROFESSOR IN FOREST HYDROLOGY

DÉPARTEMENT DES SCIENCES DU BOIS ET DE LA FORÊT
FACULTÉ DE FORESTERIE ET DE GÉOMATIQUE
UNIVERSITÉ LAVAL

General description

The Department of Wood and Forest Sciences at Laval University is looking to fill a tenure track position as assistant/associate professor in Forest Hydrology. The main activities shall cover the following domains:

- Forest and land ecosystems hydrology for applications in forest and rural watershed management as a mean to reach sustainable development;
- The modelling of the impacts of harvesting and forest management practices on water yield and quality ;
- Study of the links between hydrology, silviculture, forest operations and conservation of ecosystems;
- The prediction of the impacts of forest management practices and climate change on the frequency and volume of stormflow and the availability of quality water coming from forest, agro-forest and rural territories.

Responsibilities include:

1. Teaching undergraduate and graduate courses in hydrology to forestry and geography students;
2. Conducting research and supervising graduate students on subjects related to hydrology;
3. Participating in continuing education activities;
4. Participating in departmental, university and multisectorial (private or public sector) committees;
5. Participating in the long term forest hydrology research projects at Forêt Montmorency experimental forest.

Selection criteria

The candidate should:

1. Have an undergraduate degree in forestry or in a closely related field, and a Ph.D. degree from a recognised university, or near completion;
2. Demonstrate good teaching and research capabilities;
3. Have specific knowledge in at least two of the following areas of forest hydrology: mathematical modelling of hydrological behaviour of watersheds; impacts of silvicultural and harvesting practices on water and nutrient balance of forest watersheds; elaboration of monitoring and predicting tools of the hydrological behaviour of forests at watershed and landscape scales; dimensioning of hydraulic works, methods and techniques for erosion and sediment control; sustainable management of forest watersheds (soil protection, water conservation, protection of peat swamp forests);
4. Show capacity and willingness to mingle with multidisciplinary research groups;
5. Be able to contribute to research activities of colleagues in forest management, forest operations and geography;
6. Be able to obtain competitive research funds from Government's grant agencies as well as private organisations;
7. Be able to communicate and write in French;
8. Priority will be given to applicants who are eligible for membership in the Quebec Corporation of Forest Engineers or will become eligible within two years.

Salary: According to collective agreement.

Expected starting date: May 2010.

As an employer committed to a diverse workplace, Université Laval encourages all qualified individuals to apply—particularly women, visible and ethnic minorities, aboriginal persons, and persons with disabilities—but priority will be given to Canadians and Canadian permanent residents.

Applicants should send a resume indicating their domain of expertise, copies of recent major publications, a brief description of the proposed research program, three letters of recommendation and academic transcripts no later than December 14, 2009 to:

Yves Fortin, directeur
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