



## UNIVERSITY OF ALBERTA

### – Two MSc Student Opportunities in Global Change Biology –

Applications are invited for MSc student positions researching climate change impacts on tree species and forestry systems. The successful candidates will work under the primary supervision of Dr. Andreas Hamann (<http://ualberta.ca/~ahamann/>).

#### **Position Description**

Funding: Salary CAN\$ 19,500 per year plus benefits for 2 years.

Start Date: Positions start in September 2012 and September 2013.

Requirements: Applicants must be citizens of the European Union, or Canadian citizens or permanent residents to qualify for funding under this dual-degree program.

#### **Dual-degree opportunity**

The successful candidates will spend one year in Freiburg, Germany, in an English-language MSc program, and one year at the University of Alberta leading to dual Master degrees. For details see the TRANSFOR-M description below.

#### **Position Summary**

The successful applicant will analyze botanical data, forest inventory plots, remote sensing data and dendrochronology records from Europe and western North America to detect and predict climate change impacts on tree growth and demography.

Depending on the applicant's interest and background, their research will focus on:

- (1) analyzing climate change impacts on forestry systems based on historical climate records,
- (2) identifying vulnerable species and populations under projected climate change, or
- (3) developing predictive habitat models to guide reforestation programs.

The incumbent will work in a multidisciplinary, international team and will acquire a wide range of skills including data management, analytical and modeling methods, as well as GIS and remote sensing skills for selected projects.

#### **Qualifications**

Applicants must have a background in ecology, environmental sciences, or forestry, and an interest in advanced analytical and statistical methods. Knowledge of programming languages, GIS, remote sensing, or general computer skills are an asset. The successful candidate will be highly motivated with strong ability to work independently or as part of a team as required.

#### **How to apply**

Please send a letter of interest to [andreas.hamann@ualberta.ca](mailto:andreas.hamann@ualberta.ca) well before the formal TRANSFOR-M application deadline (January 31, 2012 and January 31, 2013 for the subsequent September start <http://tinyurl.com/672lb5r>). Include a resume describing your skills and education, transcripts (unofficial copies are fine), and the names of three referees.

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#### **Department of Renewable Resources**

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# TRANSFOR-M

## Transatlantic Forestry Master

A 2-year Master program leading to a European and a Canadian degree

**TRANSFOR-M** students will be educated in modern sustainable forest and environmental management approaches that are sensitive to cultural and situational differences. They acquire an enhanced global view that accommodates multi-cultural perspectives about economic and environmental issues. Each student will spend one year in Canada and one year in Europe in an English-language Master program.

The program includes an intensive 3-week field course in participating universities in Canada (BC, Alberta and New Brunswick) and a 3-week course in the participating universities in Europe (Finland, Germany, Sweden and Wales). Qualifying students will be funded for travel and living expenses while abroad.

**TRANSFOR-M** is funded by the Commission of the European Union and Human Resources and Skills Development Canada.

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