

**Subject:** PhD student at the Department of Forest Ecology and Management, Swedish University of Agricultural Sciences, Umeå

Please help distribute this announcement for a PhD student position which will become available at the Department of Forest Ecology and Management, SLU to characterize and quantify the important role trees play in the boreal hydrologic cycle. The main goal of this project is to partition evapotranspiration into evaporation and transpiration across multiple spatial and temporal scales and in an already established, well instrumented boreal forest catchment. The project will use a combination of techniques, including sap flow measurements, stable isotope techniques and eddy covariance data to investigate the interactions and feedbacks between vegetation and the terrestrial hydrologic cycle as well as evaluate how these interactions and feedbacks may respond to a changing climate.

This position is part of a cluster hire of eight PhD students and postdoctoral fellows that will be involved in a recently funded project from the prestigious Wallenberg Foundation. The overarching aim of this project is to deepen our fundamental understanding of the physiological and environmental drivers of carbon and water flows and their coupling in forest ecosystems. Thus, the candidate will be a member of a large, vibrant working group and will be encouraged to interact with a diverse group of experts in the field of ecohydrology.

### **Qualifications**

We are seeking a highly motivated individual with good communication skills in English, both orally and written, a strong work ethic, a team player and work well in a strong research environment. We are searching for a person with a MSc. in plant physiology, hydrology or related field. Previous experience with stable isotope techniques, sap flow sensors and/or the eddy-covariance method is a merit. Experience with field data collection methods, analysis of large datasets and/or the use of R or other statistical programs is preferred. A valid driver's license is required for traveling to the field sites.

### **Contact and application information**

Students interested in this position should send a statement of interest outlining relevant research qualifications and a CV including contact information for three references to Niles Hasselquist ([Niles.Hasselquist@slu.se](mailto:Niles.Hasselquist@slu.se)).

Review of interested candidates will start April 1 and continue until a suitable candidate has been identified. The position start date is flexible but is anticipated to be in early summer 2016. The position is fully funded 4 years. The affiliation of the PhD student will be the Department of Forest Ecology and Management, SLU, in Umeå ([www.slu.se/en/departments/forest-ecology-management/](http://www.slu.se/en/departments/forest-ecology-management/)) which has an international character both when it comes to research and teaching.