Doctoral student positions in water resources research (2 positions, 4 years)

Description

University of Oulu announces 2 4-year doctoral student positions for researchers studying bioeconomy impacts on surface water systems. The position is part of a Nordforsk funded Center of Excellence project BIOWATER with partners from Finland, Sweden, Norway and Denmark. The PhDs will be included in a large water research community in Oulu and have a possibility to participate in Nordic collaboration and related PhD education events.

https://www.nordforsk.org/en/programmes-and-projects/projects/an-integrating-nexus-of-land-and-water-management-for-a-sustainable-nordic-bioeconomy

PhD 1: at the Water Resources Engineering Research Unit (http://www.oulu.fi/water) in the Faculty of Technology. The aim of this PhD is to study impacts of peatland use on hydrology and water quality (suspended solids, nutrients, DOC etc.) through data series analysis and numerical modelling. Some field work, teaching and supervision at Bachelor or Master level can be expected as part of the PhD education.

PhD2: This position is based at Department of Ecology and Genetics, Faculty of Science. The research focuses on the effects of forest and peatland use on stream ecosystem functioning and biodiversity, as well as on developing and testing tools for mitigating such effects. Empirical work will combine field surveys and mesocosm experiments. The PhD student is expected to contribute to teaching and supervision of undergraduate students as part of his/her doctoral education.

The research is carried out in collaboration with Nordic project partners, Finnish Environment Institute SYKE (www.syke.fi) and LUKE-Natural Resources Institute Finland (www.luke.fi). A research stay abroad (secondment) for a period of about 6 months is expected at one of the Nordic research partners.

Responsibilities and Required Qualifications

PhD1: the successful candidate is expected to have a M.Sc. degree in hydrology, water resources engineering, environmental engineering (or equivalent degree). Experience with hydrological catchment modelling approaches such as SWAT is an advantage. The position requires fluent written and oral English skills and good communication skills.

PhD2: a successful candidate is expected to have M.Sc. degree in ecology or limnology (or equivalent). Strong knowledge of theoretical and applied community ecology is required and experience in numerical ecology is considered beneficial. The position requires fluent written and oral English skills and good communication skills.

Salary

The salary will be based on the levels 1-4 of the demand level chart for university–level teaching and research staff of Finnish universities. In addition, a salary component based on personal work performance will be paid (maximum of 46.3 % of the job-specific component). The salary is thus being in practice roughly 1900-2500 € per month, depending on the appointee's qualification and experience.

The Application

Applications, together with all relevant enclosures, should be submitted electronically by May 31st, 2017.

The following documents must be attached to the application:

1) A curriculum vitae in English

2) A list of possible scientific contributions (publications, talks, posters etc.) including possible teaching merits

3) A brief (1 page) description of the motivation and suitability to the post

4) Contact information of one to two persons whom may be asked to give a statement of the candidate

5) Documentation of English language skills

Contact details

For futher information about the application and selection procedures, please contact:

PhD1 professor Björn Klöve email: bjorn.klove@oulu.fi

PhD2 professor Timo Muotka email: timo.muotka@oulu.fi