

The Department of Water, Atmosphere and Environment, Institute of Soil Physics and Rural Water Management is currently seeking for two

Postgraduate Research Associates (PhD position / project employment)

Reference code: 134

Extent of employment: 30 hours per week
Duration of employment: 1st of October 2021, limited to 30th of September 2024

Workplace: 1190 Vienna, Muthgasse 18

Gross monthly salary and pay grade in terms of collective agreement for university staff (payable 14 times per year): B1, € 2.228,60

Responsibilities

The aim of the REPEAT project is to investigate how hydrometeorological variables influence the rainfall-runoff process in three different study catchments (forest, grassland, agriculture). To achieve this, time series analysis and isotope hydrological modeling will be used in cooperation with research partners in Austria, Germany and the Netherlands. The objectives of the project will be achieved by two PhD candidates who work on specific sub-tasks and cooperate. Both PhD candidates will:

- Analyse time series of long-term hydrometeorological data
- Use an isotope hydrological model of catchment-wide water flow
- Evaluate and interpret data and results
- Use statistical analysis (e.g. regression analysis)
- Publication and presentation of research results
- PhD candidate #1 will additionally:
 - define similarity of rainfall catchment wetness (soil water content, groundwater)
- PhD candidate #2 will additionally:
 - define similarity of transit time estimators

Required skills and qualifications

- Diploma degree in Hydrology, Geosciences, Environmental Sciences or other equivalent university degree
- Skills in statistics and time series analysis
- Knowledge of catchment hydrology
- Knowledge of soil hydrology and hydrogeology
- Knowledge of isotope hydrology
- Experience with hydrological modelling and/or tracer modeling
- Excellent knowledge of spoken and written English

Desirable skills and qualifications

- Basic knowledge in transit time modeling
- Experience with programming language, especially MATLAB
- Experience in rainfall-runoff modeling
- Experience in analysis of long-term, high-resolution data
- Interest in interdisciplinary research questions
- Motivation, ability to work in a team and independently
- Good knowledge of German language

Applications can be submitted until: 14th of July 2021

University of Natural Resources and Life Sciences Vienna seeks to increase the number of its female faculty and staff members. Therefore qualified women are strongly encouraged to apply. In case of equal qualification, female candidates will be given preference unless reasons specific to an individual male candidate tilt the balance in his favour.

People with disabilities and appropriate qualifications are specifically encouraged to apply.

Please send your job application incl.

- motivation letter
- CV
- Bachelor and master certificates
- Summary of master thesis
- Names of two referees
- Indication if one of the two PhD position is preferred

as a single PDF-file (< 5 MB) to Personnel department, University of Natural Resources and Life Sciences, Peter-Jordan-Straße 70, 1190 Vienna; E-Mail: kerstin.buchmueller@boku.ac.at. (**Reference code: 134**)

We regret that we cannot reimburse applicants travel and lodging expenses incurred as part of the selection and hiring process.

www.boku.ac.at