



The Department of Water, Atmosphere and Environment, Institute for Hydrology and Water Management is currently seeking a

## Postdoctoral Research Associate Project Employment (Reference code: 175)

Extent of employment: 40 Hours per Week  
Duration of employment: 1<sup>st</sup> of December 2019, limited to 30<sup>th</sup> of November 2020  
(Starting date can be postponed by 1 month)

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 lit. b, € 3.803,90

### Responsibilities

- The candidate will work in a team environment to calculate the impacts of future climate, socio-economic and land use scenarios on reactive nitrogen (Nr) transport in Austria from agricultural catchments
- Specific tasks include to set up and work with the SWAT model and the new SWAT+ model
- Develop a method to input the socio-economic scenarios and land use scenarios into SWAT
- Quantify the impacts of climate change on Nr loads from different agricultural practices
- Undertake a sensitivity analysis of the most influencing input factors on Nr
- Statistically evaluate the simulated variables and undertake rigorous comparison with other modelled results
- Candidate will present the results at conferences and publish results in peer-reviewed journals

### Required skills and qualifications

- Doctoral degree/PhD
- Degree in hydrology or geography or environmental science or equivalent
- The candidate must have prior proven experience with the eco-hydrological model SWAT or have excellent previous experience with hydrological models
- Have a good background in agricultural production systems
- Possess excellent analytical skills
- Be able to work independently as well as in a team and meet deadlines
- Proven ability to write and publish in high-ranking, peer-reviewed English language journals

### Desirable skills and qualifications

- Knowledge of R programming skills
- Ability to communicate (speak and write) in German

Applications can be submitted until: 31<sup>st</sup> of October 2019

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.

Please send your job application to Personnel department, University of Natural Resources and Life Sciences, 1190 Vienna, Peter-Jordan-Straße 70; E-Mail: [kerstin.buchmueller@boku.ac.at](mailto:kerstin.buchmueller@boku.ac.at). (**Reference code: 175**)

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

**[www.boku.ac.at](http://www.boku.ac.at)**

