



UNIVERSITÄT KOBLENZ · LANDAU

The **Faculty 7: Natural and Environmental Sciences** invites applications for a

doctoral research position (PhD student, 65%) (f/m/d)

at the **Institute for Environmental Sciences** at the Campus Landau/Pfalz, Germany. The contract will start on January 1st, 2021 as part of the **PhD project: Meta-ecosystem modelling of aquatic-terrestrial bottom-up interactions** and is **subject to the German law on fixed-term contracts in science** (WissZeitVG). Salary will be according to 65% of the German public service salary scale TV-L 13.

Topic:

As part of the research training group SystemLink - Crossing boundaries: Propagation of in-stream environmental alterations to adjacent terrestrial ecosystems funded by the Deutsche Forschungsgemeinschaft (DFG, German Research Foundation) – GRK2360, the iES Landau, Institute for Environmental Sciences, University Koblenz–Landau, Campus Landau, Germany offers 1 doctoral research position (PhD student) for 3 years from January 2021. Salary will be according to the German public service salary scale (Entgeltgruppe) 13 TV-L (65% part time position). As member of the SystemLink research training group, you will work in a team of young and ambitious researchers with access to state-of-the-art equipment and experimental facilities.

This project will focus on the flood-mediated effects of stressors such as aquatic micropollutants and invasive species on terrestrial recipient communities. The work involves a review of meta-ecosystem models, and the subsequent development of a model, which will include the above-mentioned stressors. The model should consider biogeochemical cycles, soil physical properties, ecosystem functions, and riparian bottom-up plant-herbivore trophic interactions. Once empirical data are available, the model will be used to test the hypothesis that environmental stressors destabilize the dynamics of the riparian trophic system via bottom-up effects. Moreover, the project will work in close cooperation with an ecological modelling project on top-down effects.

Requirements:

You are the right person for this project if you are interested in biogeochemical modelling and/or quantitative ecology and you have previous knowledge in process-based environmental modelling, applied mathematics or data analysis. You should be open to conduct own empirical work and to contribute to joint experimental studies. Additionally, fluent English talking and writing skills as well as strong motivation to work in teams, to publish research articles, and to finish a PhD thesis within three years is needed. Biology, Physics, Mathematics, Chemistry (and similar) degrees will be equally considered.

It is the policy of the University Koblenz-Landau to increase the percentage of female PhD candidates. If equally qualified, preference will be given to female applicants. Disabled candidates are given priority, if equally qualified (Please attach a proof).

Please send your applications (1 pdf file), with a 1-page letter of motivation, a CV and a list of publications/presentations, a reference letter from a mentor, degree certificates, until 30.11.2020 via email to bewerbung@uni-koblenz-landau.de Please make sure to mention your name and the position you are applying for in the subject line of the email. Potential candidates will be contacted for an online or physical meeting.

For further details on the SystemLink research see the website <https://systemlink.uni-landau.de/> or contact the speaker of SystemLink, Prof. Dr. Ralf Schulz (schulz@uni-landau.de) or the supervising scientist of the position, Dr. Alessandro Manfrin (manfrin@uni-landau.de).