Job posting

**Type of position**
- [x] scientific
- [ ] administrative

**Target group**
- [x] graduates
- [ ] post docs
- [ ] other

**Title**
Doctoral research position (PhD student, 65% EG 13 TV-L) (f/m/d)

**Institution**
DFG-Graduiertenkolleg SYSTEMLINK (GRK2360) at the Institute for Environmental Sciences at the University of Koblenz-Landau, Campus Landau, Germany

**Position**
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, you will work from January 2021 on 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.

**Responsibilities**
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. Successful candidates will hold a diploma or MSc in a relevant topic such as environmental sciences, ecology, biogeochemistry, physics, environmental modelling or similar. 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.
Application procedure (deadline etc.)

Please send your applications (1 pdf file, max 10 MB) with a 1-page letter of motivation, a CV and a list of publications/presentations, a reference letter from a mentor and degree certificates until 30.11.2020 via email to bewerbung@uni-koblenz-landau.de. Please make sure to mention your name and the reference number 84/2020 in the subject line of the email. Potential candidates will be contacted for an online or physical meeting.

Women with equivalent suitability, competence and professional performance will have preference for employment as far as and for as long as an underrepresentation exists. This is not the case if there are such serious reasons of an applicant that are above the principle of equality of women.

Disabled candidates are given priority, if equally qualified (please attach a proof).

Please note: We do not send an acknowledgement of receipt. You will receive information about the result of your candidature. Data destruction after the conclusion of the selection procedure is assured.

Contact

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).