

PhD position (UNIVERSITÄT WÜRZBURG)

Bewerbungsfrist: 25.07.2018

In the scope of the interdisciplinary research project “Blick in die Zukunft (BLIZ): Wechselwirkungen zwischen Gesellschaft, Landnutzung, Ökosystemleistungen und Biodiversität in Bayern bis 2100” funded by the Bavarian Climate Research Network (“bayklif”) of the Bavarian State Ministry, we invite applications for a

PhD position in biodiversity modelling under environmental change

60%, limited for 36 months

Your profile

- Full university degree (Diploma/M.Sc.) in biology, geo-ecology, environmental science or a related discipline
- Sound knowledge in mechanistic modelling and scientific programming (e.g. Matlab, R, C++) is required
- Ability to write scientific manuscripts, communicate concepts and results in fluent English
- Good communication skills and the ability to work in a team

Tasks

You will be a team member of the recently started interdisciplinary research project “BLIZ”. Together with partners from the TUM, University of Regensburg and FAU Erlangen, you investigate the dynamics of freshwater biodiversity. The project will focus on the spatiotemporal dynamics of populations and communities of freshwater plants in Bavarian lakes. Initial study systems will be the Iffeldorfer lakes and model development as well as ecophysiological calibration will be done in close collaboration with partners in the Limnological Station Iffeldorf (TUM; www.fisch.wzw.tum.de/). With the model, you will investigate the feedbacks between freshwater biodiversity and socio-economic systems (land-use change) in a changing climate and their uncertainties. The main goal of the project is to develop adaptation strategies to maintain sustainable ecological systems and to avoid tipping points. Specific tasks of the PhD position are (1) to develop and apply process-based models for freshwater macrophytes at the local scale (e.g. lake), (2) to simulate impacts of land-use and climate change on important native macrophyte species and relevant invasive species, and (3) to evaluate potential risks for biodiversity and develop sustainable management strategies. The doctoral thesis will be done as a series of English manuscripts.

Our offer

- Stimulating working environment and an interdisciplinary research team
- A salary in accordance to the position will be limited to 36 months
- JMU is an equal opportunity employer. Qualified women are therefore particularly encouraged to apply. Applicants with disabilities are treated with preference given comparable qualification.

Contact

Please send your application, including a cover letter, a short summary of research interests, detailed CV with list of publications, complete certificates, grades, and the contact of two potential referees, as soon as possible (latest by **July 25, 2018**) in the form of a single pdf-file to Prof. Juliano Sarmiento Cabral (juliano.sarmiento_cabral@uni-wuerzburg.de)

Appointment date is as soon as possible

For further inquiries, please contact directly Prof. Juliano Sarmiento Cabral

For more information, see www.bayklif-bliz.de or www.cctb.uni-wuerzburg.de/research/ecosystem-modeling/