

PhD Position in Environmental Physics
University of Konstanz

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Posted Apr. 30, 2020, set to expire Aug. 30, 2020

Job Title PhD Position in Environmental Physics

Department Biology
<https://www.rtg-resilience.uni-konstanz.de/>

Institution University of Konstanz
Konstanz, BW, Germany

Date Posted Apr. 30, 2020

Application Deadline Jun. 30, 2020

Position Start Date Oct. 1, 2020

Job Categories Graduate Student

Academic Field(s) Marine/Freshwater Sciences

Job Website https://www.rtg-resilience.uni-konstanz.de/typo3temp/secure_downloads/72814/0/85208b16625e04a37640475f679764216eb

Apply By Email applicationrtgr3@uni-konstanz.de

Job Description

DAAD Graduate School Scholarship Program

Call for applications for a Doctoral Scholarship integrated in the DFG Research Training Group R3 The Research Training Group R3 - Resilience of Lake Ecosystems at the University of Konstanz studies the response of aquatic ecosystems, and their resilience and reversibility to changing abiotic

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and biotic conditions, using Lake Constance as model system. Within the Research Training Group R3, a diverse group of doctoral researchers is investigating the response of community structure, biological interactions, and carbon & nutrient flows to changing conditions in Lake Constance. More information can be found at <https://www.rtg-resilience.uni-konstanz.de>

We invite international applicants to join the Research Training Group R3. A 4- year doctoral scholarship funded by the DAAD is available for the following research topic:

Ecological modelling and data analysis investigating the regime shift in the phytoplankton community in Lake Constance

Project Description: Trophic change has caused a regime shift in the annual phytoplankton biomass in Lake Constance. During eutrophication between the 1960s and the 1980s and during re-oligotrophication from the 1990s onwards the annual phytoplankton biomass has been rather resilient to changes in nutrient concentrations except for a comparatively short time period of transition between the two alternative states. The project aims at a better understanding of the mechanism responsible for the resilience and the regime shift of the phytoplankton in Lake Constance. We plan to use data analysis and numerical modelling of the phytoplankton community to investigate the consequences of changes in bottom up and top-down effects on the seasonal course of plankton development during eutrophication and re-oligotrophication. The project is integrated in the Research Training Group R3 (www.rtg-resilience.uni-konstanz.de). and funded by the German Academic Exchange Service DAAD.

Requirements: Highly motivated candidates with a MSc degree in biology, mathematics, oceanography, physics or engineering are welcome to apply. Applicants should have a background in numerical modelling and data analysis, ideally experiences with environmental systems and plankton, and show an enthusiasm for basic research. The successful candidate should be able to communicate effectively with individuals from a wide range of disciplines. High proficiency in English is expected. At the time when DAAD receives the nomination letter, the last final exam (Master Degree or equivalent) must have taken place no longer than six years ago and applicants must not have resided in Germany for more than 15 months prior to the nomination. For more information on this project contact Prof. Dr. Frank Peeters, Professor for environmental physics (<https://www.limnologie.uni-konstanz.de/en/peeters/>)

Application: To apply, please send the following documents as a single PDF file to Dr. Tina Romer, applicationRTGR3@uni-konstanz.de, coordinator of the Research Training Group R3 until 30th of June 2020.

- Letter of Motivation (1 page)
- Overview of your ideas on experimental strategies and methods for addressing the research question

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(1 page).

- Curriculum vitae (including list of publications)
- Certificates of education.
- Two letters of recommendation from faculty members of your home university (using the forms found under: <https://www.daad.de/medien/deutschland/stipendien/formulare/recommendation.pdf> or <https://www.daad.de/medien/deutschland/stipendien/formulare/recommendation.doc>)

Details on the DAAD Graduate School Scholarship Program, the application procedure and eligibility criteria:

<https://www.daad.de/go/en/stipa57034100>

and

https://www.daad.de/medien/hochschulen/ww/pprogramme/gssp/gssp_2019_guideline_applicants.pdf

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

Germany