



Technische Universität Berlin



Technische Universität Berlin offers an open position:

Research assistant - 0.75 working time - salary grade E13 TV-L Berliner Hochschulen

Modeling of cyanobacteria ecology in lakes

under the reserve that funds are granted

Faculty III – Institute of Environmental Science & Technology / Water Quality Engineering

Reference number: III-445/19 (starting at the earliest possible / for 3 years / closing date for applications 09/08/19)

Working field: The project is part of the DFG Research Training Group “Urban Water Interfaces (UWI)” (www.uwi.tuberlin.de) which is carried out in close collaboration between the TU Berlin (TUB) and the Leibniz Institute of Freshwater Ecology and Fisheries (IGB). The research area is the ecology of cyanobacteria in lakes, with a focus on pelagic – littoral interactions and feedbacks (e.g. the synergistic association between cyanobacteria and macrophytes). The overall aim is to develop a predictive understanding and model of lake cyanobacteria ecology. Two of Berlin’s lakes (Tegeler See and Müggelsee) will serve as testbeds. Observations will be obtained using in situ sensors and sampling and analysis (cell counts, toxins). Modeling will build on past models (IAM, PCLake, Salmo) and include relevant mechanisms (physical, chemical, synergism with macrophytes, passive transport with macrophytes), and consider pelagic – littoral feedbacks. There will be a close collaboration with other UWI projects studying invasive mussels (F1), sediment bed – water interaction (F3) and greenhouse gas emission (F4) in urban lakes, and projects that focus on remote sensing (W3) and bank filtration (H1) in urban areas.

Supervisors: Prof. Ferdi Hellweger (TUB) and Dr. Sabine Hilt (IGB). Host organization: Technische Universität Berlin. Please address enquiries to Prof. Ferdi Hellweger (ferdi.hellweger@tu-berlin.de).

Requirements: The successful candidate holds a university degree (Master, Diplom or equivalent) in Environmental Sciences or Engineering with a focus on water quality or a related field and is enthused about the prospect of working in an interdisciplinary collaborative team of environmental engineers and scientists. The candidate should be experienced in the development and application of models (e.g. programming skills, numerical methods). Good english skills are desired.

Please send your **written** application with the **reference number** and the usual documents (including a letter of motivation, CV/Resume, Bachelor and Master transcripts, publications (eg articles, Bachelor and Master Thesis), 2 references, and a letter of recommendation (preferably from a professor)) to Technische Universität Berlin - Der Präsident - Fakultät III, Institut für Technischen Umweltschutz, FG Wasserreinhaltung, Prof. Dr. Hellweger, Sekr.KF 4, Straße des 17. Juni 135, 10623 Berlin and as a single PDF to info@wrh.tu-berlin.de.

To ensure equal opportunities between women and men, applications by women with the required qualifications are explicitly desired. Qualified individuals with disabilities will be favored. The TU Berlin values the diversity of its members and is committed to the goals of equal opportunities.

Please send copies only. Original documents will not be returned.

The vacancy is also available on the internet at <http://www.personalabteilung.tu-berlin.de/menue/jobs/>

