Faculty of Environmental Sciences

At the Department of Hydro Sciences, Institute of Hydrobiology the Chair of Limnology offers, within the framework of a BMBF project a position as

Research Associate in Microbiology (Antibiotic Resistance)
(subject to personal qualification employees are remunerated according to salary group E 13 TV-L)

starting as soon as possible. The position comprises 60 % of the full-time, weekly hours is initially limited until the end of the project on June 30, 2023. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). The position offers the chance to obtain further academic qualification.

Tasks: The work within the cooperation projects focuses on the diagnosis and monitoring of environmental antibiotic resistance, as well as the development of surveillance technologies and methods for global use. Through targeted monitoring and analysis, new antibiotic resistance genes are to be identified and isolated from the environment before they reach human pathogens or spread widely. For this purpose, new monitoring approaches need to be developed and existing strategies and methods (examination of bacterial cultures, qPCR, shotgun metagenomic sequencing and functional metagenomics, as well as computer-based modeling) will be implemented and assessed. The final focus of the project is the evaluation and establishment of measures for the development of a global environmental antibiotic resistance monitoring system.

Requirements: very good university degree (Master, diploma, or equivalent) in life sciences or environmental sciences with a focus on theoretical and applied microbiology and a general understanding of microbial ecology and evolution; a general knowledge of and experience in working with molecular and microbiological techniques, such as DNA-RNA isolation, quantitative PCR and the genetic modification of microorganisms; skills for analyzing corresponding data with state-of-the-art statistical software are also required; a high level of motivation for independent work and research, innovative and interdisciplinary thinking, a willingness to integrate into an existing international research team and to take on responsibility; very good skills in English, oral and written; basic knowledge of the German language will be advantageous. Previous work in the field of antimicrobial resistance, experience with metagenomic sequencing techniques and the implementation of bioinformatic analysis and previous knowledge in writing scripts in R (or similar) and the Linux command line are also advantageous.

Applications from women are particularly welcome. The same applies to people with disabilities.

The application documents should include a short motivation letter, your CV with the full list of publications and a one-page abstract of your master thesis/final year research project. These are to be submitted by October 8, 2021 (stamped arrival date of the university central mail service applies) to: TU Dresden, Fakultät Umweltwissenschaften, Fachrichtung Hydrowissenschaften, Institut für Hydrobiologie, Professur für Limnologie (Gewässerökologie), Herrn Prof. Thomas Berendonk, Helmholtzstr. 10, 01069 Dresden or via the TU Dresden SecureMail Portal https://securemail.tu-dresden.de by sending it as a single pdf document to limnologie@tu-dresden.de. Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

Reference to data protection: Your data protection rights, the purpose for which your data will be processed, as well as further information about data protection is available to you on the website: https://tu-dresden.de/karriere/datenschutzhinweis