Faculty of Environmental Sciences

The Department of Hydro Sciences, Institute of Hydrobiology offers a position as

**Research Associate / PhD Student / Postdoc in Microbiology**

(Subject to personal qualification, employees are remunerated according to salary group E 13 TV-L)

related to microbial biofilm dynamics and antibiotic resistance in the environment. The position is embedded in the framework of a DFG/BMBF project together with the Helmholtz Centre for Environmental Research at the Center for Advances Water Research (CAWR), is to start at the **earliest possible date** and is initially limited until 31.07.2019. Due to joint project management, a position lasting for 18 months will follow after this period at CAWR (ending 31.03.2022). The candidate selection process will be carried out together with CAWR for the total duration. It is therefore not necessary to re-apply. 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 project is centered on predator-prey dynamics in an experimental biofilm system and will relate this also to gene transfer in such systems in the context of antibiotic resistance evolution. Models and experiments will identify the main processes influencing the dynamics of biofilm formation.

**Requirements:** university degree – and if applicable a PhD - in biology, hydrology, medicine or similar fields; well-acquainted with molecular and microbiological techniques, in particular with real-time PCR, digital PCR, plasmid analysis and genetic modifications of microorganisms, as well as with the cultivation of microbes on a laboratory scale; strong publication record; motivation to perform independent research and the willingness to coordinate the scientific efforts within the project with little external supervision; ability to think innovatively and to work as an active member of a team; very good command of German and English for publishing high-quality research. Familiarity with modelling approaches capabilities would be a great plus. We also encourage the application of masters students who want to pursue a PhD – in exceptional cases these will also be considered for this position.

Applications from women are particularly welcome. The same applies to people with disabilities. The application documents should include a short motivation letter with your potential starting date and your CV with the full list of publications. These are to be submitted by **18.01.2019** (stamped arrival date of the university central mail service applies) to: **TU Dresden, Fakultät Umweltwissenschaften, Fachrichtung Hydrowissenschaften, Institut für Hydrobiologie, Herrn Prof. Thomas Berendonk, Helmholtzstr. 10, 01069 Dresden** or via the TU Dresden SecureMail Portal [https://securemail.tu-dresden.de](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](https://tu-dresden.de/karriere/datenschutzhinweis).