Chair of Urban Water Systems Engineering
Department of Civil, Geo and Environmental Engineering
Technical University of Munich

In support of our team, starting February 15, 2018 or earlier we are looking for a full-time

Postdoctoral Research Associate leading our ‚Microbial Systems Laboratory'

About us

The Chair of Urban Water Systems Engineering at the Technical University of Munich is engaged in research activities that are centered around sustainable, energy-efficient urban water and wastewater systems, energy recovery from wastewater and anaerobic technologies, storm water treatment and management, microbial systems, engineered natural treatment systems, advanced water treatment (membrane- and oxidation hybrid processes), water recycling, and state-of-the-art chemical analysis for process control and water quality. The Chair maintains a physico-chemical laboratory, a microbiology laboratory and a trace organic chemical laboratory. The ‚Microbial Systems Laboratory' is certified as an S2 Laboratory. For further information, please visit our website at www.sww.bgu.tum.de.

Qualifications

We are looking for a highly motivated and creative scientist to lead our ‚Microbial Systems Laboratory'. Applicants should demonstate the following qualifications:

- Ph.D. degree in environmental microbiology, microbial ecology, biotechnology or environmental science with emphasis on microbiology perferably in aqueous matrices
- Special knowledge in biomolecular methods (qPCR, rt-qPCR, PCR-DGGE; next-generation sequencing, MiSeq), intregration and analysis of multi-omics data (metagenomic, metatranscriptomic), and quantification of microorganisms in aqueous samples
- Softskills (working experience in interdisciplinary teams; leadership)

Duties and Responsibilities

While becoming a member of a research active team, your responsibilities will consist of

- Directing the ‚Microbial Systems Laboratory' at the Chair of Urban Water Systems Engineering at TUM
- Supervising technical staff members supporting the ‚Microbial Systems Laboratory'
- Co-supervision of PhD candidates and master students
- Development of own active research profile as well as joint research projects in collaboration with other research groups at the Chair related to biotransformation of trace organic chemicals in engineered and natural water treatment systems, fate and transport of pathogens and antibiotic resistant bacteria and antibiotic resistance genes.
- Delivering the lecture ‚Microbiology' and ‚Ecology' within the BSc program of Environmental Engineering (4 SWS) in German
- Representation of research activities at national and international meetings

We offer

- A fully funded full-time position (TV-L E13) until March 2019 with the intent of continuation.
- TUM is an equal opportunity employer. Applicants with disabilities and equal qualifications will be considered preferentially.
- TUM is particually interested in increasing diversity and is welcoming applications from female and international scientists.

Application

We look forward to receiving your application. Please send your application package including a letter of application and CV via E-mail or regular mail to Prof. Dr.-Ing. Jörg E. Drewes (jdrewes@tum.de).

- Applications will be accepted until the position is filled.

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