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

In support of our team, starting October 1, 2019 or earlier we are looking for a part-time (75%)

Postdoctoral Research Associate
as Scientific Project Manager (Membrane Filtration)

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 Membrane Filtration laboratory includes various membrane-rigs and fouling-simulators for capillary and flat sheet membrane testing. 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 a new research project on biofouling mitigation in membrane processes using UV-based technologies. This work is part of our “Membrane Technology’ research group. Applicants should demonstrate the following qualifications.

- Ph.D. degree in water science and technology, process engineering, biotechnology, environmental science, environmental or chemical engineering or related branches of study with emphasis on water treatment processes, preferably in membrane filtration
- Special knowledge in chemical, physical and biological water treatment processes with a focus on membrane or hybrid membrane processes used for water reuse, seawater desalination or industrial process water treatment
- Softskills (working experience in interdisciplinary teams; leadership) and fluent German

Duties and Responsibilities

Your responsibilities will consist of

- Project management of a collaborative research project that aims to develop UV-based anti-biofouling strategies in RO and NF membrane treatment processes
- Co-supervision of a PhD candidate and master students
- Development of your own active research profile as well as joint research projects in collaboration with other research groups at the Chair related to membrane filtration. These might focus on water reuse with hybrid membrane processes for the removal of trace organic chemicals, pathogens and antibiotic resistant bacteria.
- Representation of research activities at national and international meetings

We offer

- A 75% position (TV-L E13) until March 2021 with an option of continuation and increase to a full-time position.
- 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.

Technical University of Munich
Chair of Urban Water Systems Engineering
Prof. Dr.-Ing. Jörg E. Drewes
Am Coulombwall 3
85748 Garching, Germany
Tel. +49 89 289 13713
jdrewes@tum.de
www.sww.bgu.tum.de
www.tum.de