

Group Leader

Project

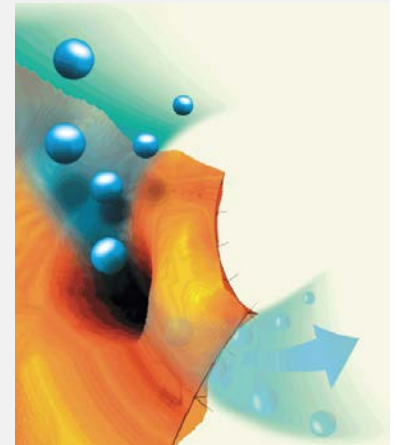
The IFG-Membrane Technology Department was established in March 2014 and has access to state-of-the art research facilities within the National Research Centre of the Helmholtz Association. The focus of the Membrane Technology Department is to develop novel membrane materials, understand transport and fouling phenomena and design new processes for water treatment applications. This entails predominantly pressure driven membrane processes, in particular nanofiltration, while adsorption and electrochemical processes are significant research topics for micropollutant removal and fouling control.

As a group leader you will be responsible to establish a research group within one of the three main interest areas of the department (i) new membrane materials, (ii) membrane retention and fouling mechanisms, and (iii) membrane systems development – applied to water treatment and support the Head of Department in various responsibilities part of a rapidly growing team including new facilities to be opened in 2018.

Besides commitment to research excellence, this entails the planning and execution of research projects, and writing of funding proposals for both national and international funding agencies (English & German). Cooperation with internal and external partners (including industry), data acquisition and analysis, publication in peer reviewed high impact journals as well as student supervision are part of the responsibilities. Contribution to teaching within the Faculty of Chemical and Process Engineering is expected.

In 2016 a new NanoMembrane initiative has started within the Helmholtz Programme Science and Technology of Nanosystems (STN) with initially 10 interdisciplinary PhD projects. The coordination of this initiative and the operation of a NanoMembrane membrane manufacturing and characterization laboratory are in the responsibility of the Membrane Technology Department and an exciting collaborative opportunity to get involved.

The position is not bound to a particular project and hence provides excellent possibilities for the career development of a researcher.



Qualifications

You will most likely hold a PhD in Chemical, Process, Environmental Engineering, or equivalent and are a naturally curious person who is eager to learn more and has evidenced interest in research leadership. Experience with membrane filtration systems (of any scale) is a requirement, as well as proven track record in student supervision, research publication and research funding applications. Experience with water treatment process design, polymer material development, analytical chemistry, micropollutant detection and environmental issues will be a good foundation for the position. An outstanding publication and research funding track record are required.

Excellent English language proficiency is essential, German language skills are strongly desired.

Contract

TvOD E14, 100%, initially for 1 year with the possibility to extend.

KIT

KIT is one of the biggest research institutions worldwide and has access to state-of-the art research facilities resulting from the merger of the National Research Centre of the Helmholtz Association and the former Technical University of Karlsruhe. This position is in the Membrane Technology group at the Institute for Functional Interfaces (IFG) with an affiliation to the Faculty of Chemical and Process Engineering.

Contact

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Applications

Please send applications with CV, publication list and your contribution to the publication, research project list with contribution to the project, academic transcripts, degree certificates, contact details for three references, language certificates and a preliminary research plan and vision for the group to Silvia Ratzel (PSE) Silvia.Ratzel@kit.edu by **31 December 2016**.