



Karlsruhe Institute of Technology

Karlsruhe Institute of Technology
Personalservice (PSE)

Kaiserstraße 12
76131 Karlsruhe

<http://www.pse.kit.edu>

Post Doc (f/m/d)

Job description:

KIT is one of the biggest research and education institutions worldwide. Being “The Research University in the Helmholtz Association”, KIT creates and imparts knowledge for the society and the environment. Research questions of the Chair of Water Chemistry and Water Technology of the Engler-Bunte-Institut concern water quality, water treatment and biological interfaces. We look for a Post Doc in this context. The position is devoted to the characterization of biofilms.

Your tasks and responsibilities

- Development of characterization of biofilms with magnetic resonance (MR).
- Realization of the development on a defined (ideally on a self-chosen) biofilm system, conception, realization and cultivation in a (MR) suitable reactor system.
- NMR-spectroscopy on biofilms may be exploited or the application of X nuclei in magnetic resonance.
- Comparison and completion of the findings with alternative, optical characterization techniques.
- Collaborate and interact with (inter-)national, interdisciplinary and cross-divisional teams comprising biofilm research and analytical method development.

Qualification:

You dispose of

- PhD as well as a very good university degree in Chemical Engineering, (physical) Chemistry, or related disciplines.
- Practical experience in conception and realization of experiments involving biofilms and their characterization via MR.
- Ability to drive progress in a team setting, strong communication skills.
- Being open-minded and challenging the status quo as well, high self-driven motivation, ability to integrate.
- Fluent in English, both written and spoken; German knowledge is advantageous.

Are you looking for a new challenge where you can show your passion for innovation? Are you interested in working as part of different teams on questions of biofilm research?

We offer:

We offer an attractive and modern workplace with access to excellent facilities of KIT, diverse and responsible tasks, a wide scope of advanced training options, supplementary pension with the VBL (Pension Authority for Employees in the Public Service Sector), flexible working time models, a job ticket (BW) allowance, and a cafeteria/canteen.

The work in different teams offers you a multidisciplinary working area with a multi-faceted while responsible position in a creative and innovative environment. The prerequisites for further in-depth research qualification are given, such that you can advance the research topic significantly with your motivation. The working place will be at Campus South of KIT nearby the center of Karlsruhe and is easily reached by public transport.

Salary: The remuneration occurs on the basis of the wage agreement of the civil service in TV-L, E13.

Institute: Chair of Water Chemistry and Water Technology of the Engler-Bunte-Institut, EBI

Contract duration: limited to 2 years

Starting date: as soon as possible

Application up to: The review of the applications will continue until the position is filled.

Contact person in line-management: **Prof. Dr. H. Horn** (harald.horn@kit.edu) will be pleased to provide you with specialist information.

Application: Please send the full application with a motivation letter, curriculum vitae, copies of academic degrees and transcripts of records as a single PDF file to Prof. Dr. H. Horn: e-mail: harald.horn@kit.edu.

We prefer to balance the number of female and male employees. Therefore, we kindly ask female applicants to apply for this job.

If qualified, handicapped applicants will be preferred.

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KIT is certified as a family-friendly university (familienfreundliche Hochschule) and offers part-time employment, leaves for family-related reasons, dual career options, and individual coaching for family-work balance.