



## **Open Postdoctoral-Fellow Position on**

### **Transport and exchange processes in aqueous porous media flows**

The *Institute for Hydromechanics (IfH)* at the *Karlsruhe Institute of Technology (KIT)* invites applications for a postdoctoral-fellow position focusing on interdisciplinary research around porous media flows. Related teaching activities are primarily for the master's degree program *Water Science and Engineering (WatSciEng)*, which is housed at the *KIT Department of Civil Engineering, Geo- and Environmental Sciences* and involves more than 20 work groups from several KIT departments (see also [Water Research at KIT](#)).

The successful candidate is expected to develop research activities on transport and exchange processes in aqueous porous media flows including the groundwater and the unsaturated zones. Possible areas of research include (i) the transport and exchange of conservative and reactive contaminants, (ii) the interaction and exchange of surface flows with heterogeneous subsurface structures, (iii) transfer and transformation processes in multi-phase porous media flows such as particle-bound pollutant transport, (iv) the interaction of surface and subsurface flows with porous or solid engineering structures such as levees. The primary method of approach is expected to be laboratory modeling and analysis. Innovative methods should be applied and developed with a view to transpose methods and results with field and modeling approaches. The post-doctoral fellow will be collaborating with other researchers from the IfH institute as well as other institutes at KIT. Funding for new experimental facilities and measuring equipment is available.

On the teaching activity side, the successful candidate is expected to participate in the course and laboratory experimental offerings, in student projects and in the management of the WatSciEng master's program.

The appointment will begin as soon as possible and will be for a minimum of two years. Further extensions may also be possible, depending on availability of funding. The salary will be commensurate with qualifications and experience according to the wage agreement of the civil service (TV-L).

The candidate should hold a doctoral degree in the field of hydrodynamics of porous media flows with strong experience in experimental modeling, measurement and analysis.

Applications (preferably in one pdf file or zip file) should provide a short statement of interest, a curriculum vitae, copies of two relevant publications and contact information for two references. Reference letters may be included. Applications and further inquiries should be sent to Prof. Olivier Eiff ([olivier.eiff@kit.edu](mailto:olivier.eiff@kit.edu)) at the Institute for Hydromechanics (IfH), <https://www.ifh.kit.edu/english/index.php>. The application deadline is February 1, 2017.