



Karlsruhe Institute of Technology

Karlsruhe Institute of Technology
Personalservice (PSE)

Kaiserstraße 12
76131 Karlsruhe

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

PhD/PostDoc (f/m/d) (75-100%)

Job description:

Within the framework of the BMWi-funded Sandwich Main Project (Sandwich-HP), the hydraulic sandwich sealing system developed by KIT will be tested on a large scale in the Mont Terri Rock Laboratory (CH). The Sandwich-HP is a joint project of GRS and KIT with participation of international partners. Laboratory tests on a semi-technical scale (HTV) as well as MiniSandwich tests for the optimization of materials and parameterization for hydro-mechanical-chemical modeling accompany the in situ experiment.

Within the scope of the activity, the ion exchange and transport in mineral materials as well as the effect on geotechnical properties, such as swelling pressure, have to be investigated mineralogically and geochemically. Therefore, samples from the HTV and MiniSandwich are to be analyzed as well as own experiments are to be designed and carried out.

Qualification:

You have a university degree (Diplom (Uni)/Master) in geosciences, geocology, chemistry or a comparable course of study. If applicable, you have completed an outstanding doctorate. A sound knowledge of mineralogy or chemistry as well as a very good written and spoken command of English is required. We expect a strong interest in experimental and analytical work. Documenting, presenting and publishing scientific results is your strength. Experience in the fields of geotechnics, clay mineralogy, analytics and geochemistry would be an advantage.

Participation in this international project requires excellent intercultural, networking, organisational and conflict resolution skills.

Salary:

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

Institute:

The group of Clay Science, Applied Mineralogy of the Competence Center for Material Moisture (CMM), Institute of Photogrammetry and Remote Sensing (IPF)

Contract duration:

Limited until June 30, 2023

Starting date:

Immediately

Application up to:

Applications should be submitted by April 30, 2020, but are accepted until the position is filled.

Contact person in line-management:

Ms. PD Dr. K. Emmerich, phone +49 721 608-26114 (katja.emmerich@kit.edu) will be pleased to provide you with specialist information.

Application:

Application can be submit at katja.emmerich@kit.edu, Karlsruhe Institute of Technology (KIT).

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.