

Five-year Lecturer Position (Wissenschaftlicher Assistent) Geomechanical Modeller

RWTH Aachen University, Germany



Applications are invited for the position of Wissenschaftlicher Assistent, in the Geological Institute of RWTH Aachen University, starting date March 1 2007.

You will work in a small interdisciplinary team interested in Structural Geology, Tectonics and Geomechanics. Focusing on meso- and microscale processes in rock deformation in the presence of fluids, we aim to integrate detailed field studies, scaled model experiments and numerical models, in both basic and industry-sponsored applied studies.

Examples of recent projects are: (i) inversion of finite element models of geological structures to obtain rock rheologies, (ii) model experiments of tectonic deformation, analyzed by PIV and modelled using adaptive remeshing FE techniques, (iii) study of the evolution of fault and fracture networks in an exhumed high pressure cell in Oman, and analysis of the effective stress path and fluid composition, (iv) deformation mechanisms and rheology of salt rocks, applied to geological and geomechanical models of the evolution of salt domes.

The lecturer with salary at Bat IIa level is expected to contribute to our rigorous externally funded research programme, supervise research students and publish in peer-reviewed scientific journals. Expertise in Geomechanical Modelling using numerical techniques is welcome.

In addition, the lecturer is expected to teach in our new BSc – MSc programme, and contribute to the management of the Institute.

Requirement is a completed PhD in Geology or Geophysics, and the ability to teach in German.

For more information see

www.ged.rwth-aachen.de, or contact

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