

The Ruhr-Universität Bochum (RUB) is one of Germany's leading research universities. The University draws its strengths from both the diversity and the proximity of scientific and engineering disciplines on a single, coherent campus. This highly dynamic setting enables students and researchers to work across traditional boundaries of academic subjects and faculties. The RUB is a vital institution in the Ruhr area, which has been selected as European Capital of Culture for the year 2010.

The Faculty of Civil and Environmental Engineering Sciences in conjunction with the interdepartmental Research Department "Subsurface Modeling and Engineering" (SME) and the Collaborative Research Center SFB 837 "Interaction Modeling in Mechanized Tunneling" invites applications for the position of a **Junior Professorship (W1)** in

High Performance Computing in the Engineering Sciences

to start on 01.01.2017.

Emerging challenges for predictive simulations of materials, structures, and complete environmental ensembles at various spatial and temporal scales in civil, environmental and subsurface engineering require highly efficient computing strategies. The announcement of this Professorship aims at bridging the gap between advanced (multiphysics, multiscale) computational models and next generation high performance computing strategies. The applicant should have an excellent Ph.D. and expertise in the area of high performance computing using spatio-temporal discretization methods (e.g. finite element) in engineering. Potential fields of applications are simulations of materials and structures at various scales, fluid- and fluid-structure interaction problems, or real time computing.

The successful candidate will find opportunities for establishing close cooperation within the University and for integrating his/her research into the Faculty for Civil- and Environmental Engineering, the Research Department "Subsurface Engineering" and the DFG Collaborative Research Center 837 "Interaction Modeling in Mechanized Tunneling".

The position includes teaching duties in research related topics in English and in German language.

The Ruhr-Universität Bochum is an equal opportunities employer. Applications consisting of the usual documents should be sent to the

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no later than 01.10.2016. Further information is available at <http://www.fbi.rub.de>, www.rdsme.ruhr-uni-bochum.de (RD SME) and www.sd.rub.de/sfb837 (SFB 837).