

The University of Stuttgart with its 20,000 students and 7,000 employees is one of the leading European Research Universities with a main focus on engineering and natural sciences. The University of Stuttgart is committed to excellent basic and applied research and interdisciplinary academic education.

The excellence initiative of the German state and federal governments has approved the funding of the Cluster of Excellence in Simulation Technology at the University of Stuttgart in November 2007. In this context, the Stuttgart Research Centre for Simulation Technology (SRC SimTech) is asking for applications for the

Junior Professorship (W1) on Interfaces in Porous Media Flow

associated with the Research Areas B and D of the cluster as is described on the website www.simtech.uni-stuttgart.de.

The Junior Professorship to be established at the University of Stuttgart is dedicated to the research in the framework of the interface-related modelling of flow and transport processes in porous media. Possible fields are the physically and mathematically correct representation of material discontinuities (material interfaces), the simulation of evaporation processes taking fluid-fluid interfaces into account, multi-physics coupling across domain boundaries (domain interfaces), and the simulation of mass and energy transfer processes across phase-interfaces.

The Junior Professor is intended to strengthen Research Areas B and D within the Cluster of Excellence in "Simulation Technology". Close cooperation with the International Research Training Group "Nonlinearities and upscaling in porous media" (NUPUS) is also expected. Moreover, links to the simulation activities in the natural sciences and other branches of engineering science are desirable.

One of the tasks of the junior professor is to contribute to the teaching and examination activities both at the Faculty of Civil and Environmental Engineering as well as in the Cluster of Excellence in "Simulation Technology". For these activities, it is necessary to have a good command of the German language.

For Junior Professorships (W1), the requirements for employment listed in § 51 Baden-Württemberg university law apply. The positions will be offered for three years initially and are extendable by another three years after successful evaluation.

Applications with the usual documents (CV, degree certificates, references, publication list, selected off-prints) should be sent to the Coordinator of the Cluster of Excellence in Simulation Technology, Prof. Dr.-Ing. Wolfgang Ehlers, Institute of Applied Mechanics (CE), Pfaffenwaldring 7, 70569 Stuttgart, Germany, to arrive **no later than November 26, 2010**. Applications via e-mail are asked-for and should be sent to ehlers@mechbau.uni-stuttgart.de.

The University of Stuttgart wishes to increase the proportion of female academic staff and, for this reason, especially welcomes applications from women. Severely challenged persons will be given preference in case of equal qualifications.

The University of Stuttgart has established a Dual Career Programme to offer assistance to partners of those moving to Stuttgart. For more information please visit the web-page under www.uni-stuttgart.de/dual-career/.