TU Clausthal
Clausthal University of Technology

The "Scientific Computing" group at the institute for mathematics (IfM) is inviting applications for a position as

Doctoral Researcher (m/f) TV-L E13 (75%)

for a duration of three years. The intended start of the project is May 1, 2016.

The position is part of the project EXA-DUNE: Flexible PDE Solvers, Numerical Methods and Applications, which is funded by the German Research Foundation (DFG) in the special projects program SPP 1648-2 "Software for Exascale Computing".

Central aim of the project is the development of a prototype model for a next-generation land-surface model for the highly efficient simulation of the water and energy transport at the earths surface, especially in the vadose zone. The model will combine techniques developed in EXA-DUNE to achieve scalable parallel simulations even on the largest available super computers. It will be carried through in intensive cooperation with our partners at TU Dortmund, the universities of Heidelberg, Münster and Stuttgart and the Fraunhofer Institute for Industrial Mathematics.

We expect strong interest in modelling and numerical simulation of processes in porous media. Applicants should hold a master degree in mathematics, natural sciences or engineering related to modelling and simulation. Candidates should have a solid experience in scientific programming with C++ and a good basic knowledge of the numerics of partial differential equations. We expect the ability to work interdisciplinary in a team and the readiness to also contribute to teaching.

As an equal opportunity employer, Clausthal University of Technology actively encourages applications from women. Preference will be given to disabled applicants with equal qualifications.

For questions regarding the research project please contact the head of the scientific computing group Prof. Dr. Olaf Ippisch (olaf.ippisch@tu-clausthal.de). Interested candidates should send a CV describing background, training and research interests, highlighting experience with modelling and simulation, and certificates as a single PDF (max. 10MB) with the keyword "EXADUNE" to Ilka Brinkmann (ilka.brinkmann@tu-clausthal.de) **until March 31, 2016**.