

## Software-Developer (m/f)

For gas-cooled High-Temperature Reactors (HTGR) in the past decades extensive model development with respect to e. g. fluid-dynamics of Helium in a pebble bed, the motion behaviour of graphite spheres, and the thermodynamic behaviour of HTGR have been performed. Most of these models were developed as stand-alone codes and often numerous variants existed. For this reason, some years ago, based on experience with LWR, efforts have been started to establish the code-system "HTR Code Package" (HCP) at RWTH Aachen/Research Centre JÜLICH, which permits to model comprehensively HTGR-phenomena and may be extended readily if required.

In order to consolidate this code-system a project has been initiated aiming at documenting the state achieved and to develop HCP to a validated tool for the simulation of safety related phenomena and events in the primary circuit of a HTGR.

For the IT-related support in this project we are looking for a technically oriented software-developer.

### **Your tasks**

You work in a team of scientists and doctoral candidates for the a. m. project. Your main task is the implementation of the technical-scientific requirements into the object-oriented data model of HCP. For this task you bring in your IT-knowledge and - experience and your own ideas. Furthermore, the evaluation and implementation of feasible performance enhancement and writing technical- and user manual documentation will be part of your task.

### **Your profile**

- Profound knowledge in computer science or related field
- Specialization in information technology
- Good skills for object-oriented software development in a scientific environment
- Excellent knowledge of C++, FORTRAN, XML and XML-Schema
- Preferably experienced with CMake, SVN, Unit-Testing, UML
- Experience on the implementation of approach-models like e. g. Scrum
- Enthusiasm and ability for working in an international, multidisciplinary team
- Language: English fluently, (German welcome)

### **Contact**

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