

Fully funded Doctoral Researchers and/or PostDoc

Job description: Fully funded Doctoral Researchers and/or Postdoctoral Researcher positions @ Institute AIFB, KIT, Germany. Researchers are hired as scientific staff, for two years, with renewal possible.

Connected to an upcoming European research project, which aims at developing high-performance large-scale adaptive methods to enable pervasive modeling, monitoring, and predicting of events from sensors and social media, the researcher might be dedicated to:

- Semantic enrichment of data from sensors and different modalities
- Learning and inference in dynamic probabilistic models of object-relational graphs
- Large-scale distributed learning and anytime response algorithms

Qualification: The ideal candidate holds a **MSc level degree** (in case of highly qualified applicants with a **completed PhD** we will consider hiring one PostDoc) in

- computer science
- applied mathematics
- natural language processing
- or similar

which provides educational background and hands-on data analytics skills in research areas like

- representation, inference and learning in large-scale graphs
- structured statistical models
- semantic technologies and Linked Data
- high performance network analysis
- distributed graph computation

Further, we require general competencies which qualify you for **scientific work**, active participation in **research projects** and assistance in the guidance of students and **lecturing**. The postdoctoral researcher needs additional competencies in acquisition and coordination of research projects, for the guidance of Ph.D. students, and for participation in lecturing. The positions require **fluent English** language skills. German is a plus.

Institute: The Knowledge Management research group at the Institute of Applied Informatics and Formal Description Methods (**AIFB**)¹ is an interdisciplinary team of computer scientists and related disciplines and among the leading international institutions in the field of

¹ <http://www.aifb.kit.edu/web/Wissensmanagement/en>

semantic technologies.

Karlsruhe Institute of Technology (**KIT**)² is one of the leading universities in natural science and engineering in Europe and one of the largest research institutions in the world.

Our group offers a first class and international research environment with various interdisciplinary but related research topics and projects. The close cooperation with the **FZI** Research Center for Information Technology in Karlsruhe³, the Karlsruhe Service Research Institute (**KSRI**)⁴ and a large network of industry partners allows for the combination of fundamental and applied research and a fast transfer of research results into practice.

Salary: Remuneration is at E 13 TV-L (German public service salary scale⁵) for doctoral positions and TV-L E 14 for postdoctoral researcher.

Contract duration: Limited to two years; renewal possible.

Starting date: February 1st, 2014

Application up to: November 15th, 2013. We are planning to review incoming applications twice every month.

Contact person: For technical questions concerning your application, please contact Beate Kühner (*kuehner@kit.edu*). For informal inquiries with respect to the positions, please contact Dr. Achim Rettinger (*rettinger@kit.edu*).

Application: Candidates should submit an application including

- a 500 word research proposal on a topic related to the above mentioned project.
- a 250 word explanation of why their skills, experience, and plans for the intended research make them a particularly suitable candidate for this position
- a CV
- transcript of records with grades
- publications, if available

Please submit your application, preferably electronically as a **single PDF** file, to **kuehner@kit.edu** or to:

Karlsruhe Institute of Technology, Prof. Dr. Rudi Studer, Institut AIFB - 11.40, 76128 Karlsruhe, Germany

KIT is an equal opportunity employer. Women are especially encouraged to apply. Applicants with disabilities will be preferentially considered if equally qualified.

Karlsruher Institute
of Technology
Personal-
management

² http://www.kit.edu/mediathek/print_forschung/Flyer_KIT_en.pdf

³ <http://www.fzi.de/en/startseite/>

⁴ <http://www.ksri.kit.edu/Default.aspx?PagelId=273&lang=en>

⁵ <http://oeffentlicher-dienst.info/tv-l/west/>