

Stellenausschreibung

Reg.-Nr. 379/2017

Fristende 15. Februar 2018



FRIEDRICH-SCHILLER-
UNIVERSITÄT
JENA

Job advertisement Reg. 379/ 2017

As part of a collaboration project with the Institute for Data Science of the German Aerospace Center (DLR), a PhD position will be filled at the Heinz-Nixdorf-Professorship for Distributed Information Systems at the Institute of Computer Science from the earliest possible date in the field "Knowledge Modeling and Semantic Networking of Heterogeneous Data and Applications".

The project:

Earth system research is interdisciplinary and in many aspects data driven. Within the framework of the project, annotations of data sets and methods for cross-domain networking, knowledge modeling and decision-making will be developed using semantic concepts of sensor technology, geophysics and the earth system using ontologies and open standards. For this purpose, existing ontologies in the considered domains are to be identified and analyzed, first. A special focus should be on the quality assessment of existing vocabularies. In a second step, a coherent knowledge model for the considered area should be developed by combining and expanding existing ontologies.

Your tasks:

- Identification of relevant ontologies based on sample data provided by the DLR
- (further) development and implementation of methods for ontology analysis
- (further) development of tools for modularization, integration and extension of ontologies
- Implementation of a knowledge model for the application domain using the tools developed

We expect:

- a successfully completed academic degree (Master / Diploma or equivalent) in computer science or a related field
- Semantic Web experience, such as ontology development, integration, or modularization
- Knowledge of at least one object-oriented programming language
- Knowledge and experience in earth observation are beneficial
- Experience with software development in teams is an advantage
- Very good knowledge of spoken and written English
- Excellent communication and collaboration skills
- Experience working in interdisciplinary teams is an advantage
- Very good problem-solving ability

We offer:

- an interesting and diverse task
- a modern, international and inclusive work environment
- the opportunity for further scientific qualification (for example as part of a doctorate)

The position is limited to three years. It is a full-time job. The remuneration is based on the provisions of the Collective Agreement for the Public Service of the Länder (TV-L) in accordance with the personal requirements up to the fee group 13. Handicapped persons are given preference for the same suitability, aptitude and professional qualification. Please send your application with complete application documents stating the Registration number until 15.02.2018 as **one** PDF file to carola.eichner@uni-jena.de.

If you have any questions, please contact Dr. Frank Löffler (frank.loeffler@uni-jena.de).