

OFFIS is a 1991-founded, internationally active Research and Development Institute for information technology based in Oldenburg, Lower-Saxony. In an average of 70 ongoing projects OFFIS, with its 250 employees, carries out research and prototypical development work on the highest international level in the areas of energy, health and transportation. OFFIS cooperates with more than 600 business and scientific partners worldwide.



R&D-Division: Energy
Group: Automation, Communication and Control

Contract duration: 2 years
Location: Oldenburg, Lower-Saxony, Germany

Researcher (f/m) Semantic Interoperability in Future Energy Systems

THE RESEARCH THEME:

The integration of distributed renewable energy resources such as wind and photovoltaics with their stochastic behavior makes the operation of the electric energy system complicated. In such a **smart grid** paradigm, the role of information and communication technology, in especially **interoperability**, becomes critical to enable secure operation of the energy system.

YOUR TASKS:

- ▶ Collect & manage requirements of smart grid system interfaces for novel system application in energy grid operation in close cooperation with experts from other institutions and companies.
- ▶ Modelling communication in the field of the worldwide attention finding communication standards like IEC Common Information Model and connected standards like the IEC Common Information Model (CIM), IEC 61850 or COSEM and OPC UA for electrical grids, and the surrounding domains gas, heating etc.
- ▶ Develop concepts / tools to fasten current processes of system interface requirements management, interface modelling, and technical interface description and interface implementation.
- ▶ Get into standardization. Get latest standardization updates, bring in your own work and make others benefit as well.

YOUR PROFILE:

- ▶ Completed Master's degree in computer science (or similar, FH or university)
- ▶ Knowledge of the IEC Common Information Model or the willingness for intensive familiarization
- ▶ Knowledge in information modelling with UML
- ▶ Programming skills in Java or C#
- ▶ Interest and readiness for scientific work and knowledge sharing with research colleagues and industrial partners
- ▶ Fluent in written and spoken English and German

WE OFFER YOU:

- ▶ Possibility to work Fulltime to 50%
- ▶ A pleasant and interesting work environment for a dynamic institute with an international focus
- ▶ Excellent opportunities for professional and scientific advancement through cooperation with the University of Oldenburg
- ▶ Possibility of PhD study
- ▶ Company culture characterized by tolerance and openness
- ▶ Payment by TV-L (according to suitability group E 13 TV-L)
- ▶ Persons with disabilities who are severely handicapped should be given special consideration.

CONTACT: Please send your application to: bewerbung@offis.de

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