

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 over 250 employees, carries out research and prototypical development work on the highest international level in the areas of energy, society, health and manufacturing. OFFIS cooperates with more than 700 business and scientific partners worldwide.



R&D-Division: Energy  
Group: Smart Grid Testing

Working hours: according to mutual agreement  
Start: as soon as possible

## Student Assistant (f/m/d) Interoperability Testing for Energy Systems

### Background:

Interoperability testing is important to ensure the seamless integration of components and systems for smart grid technology deployment. An initiative of the Integrating Energy System (IES) approach was first introduced by IES Austria which is based on integrating the Healthcare Enterprise (IHE) approach in the health sector. The IHE Gazelle open-source platform can be applied to energy systems. To this end, the IES approach provides a common understanding and framework for data exchange i.e., interoperability profile. In other words, the IES approach can be used for interoperability testing.

We are seeking an enthusiastic student who is passionate about interoperability to join us in our efforts to conduct interoperability testing in energy systems. This student job opportunity offers hands-on experience with Gazelle, an open-source test platform designed for interoperability testing. Engaging with realistic use cases in the smart grid context can greatly enhance your future career prospects. Furthermore, the selected student will have the unique opportunity to participate in peer-to-peer testing events alongside experts and software vendors.

### About OFFIS Energy Lab:

OFFIS Energy Laboratory is a realistic world laboratory for researchers, students, and externals for experimenting with innovative solutions. The OFFIS Energy Laboratory can mimic real-world energy systems such as SCADA, automation systems, big data, and co-simulation platforms. More information: <https://www.offis.de/anwendungen/living-labs/sesa.html>

### Your Tasks:

- > Acquire knowledge working with IHE Gazelle open-source platform (<https://gazelle.ihe.net/>)
- > Supporting the development of interoperability testing in the laboratory for use cases
- > Collaborate with researchers in the formulation of integration profiles for the use cases, as well as participation in connectathon.

### Your Profile:

- > Bachelor's degree or Master's degree (or equivalent) in electrical engineering, communication engineering or computer science
- > Excellent verbal and written communication skills in English (German is a plus)
- > Good knowledge of Linux is a must
- > Good knowledge of energy systems and ICT
- > Experience in Java and nice to have Jboss and PostgreSQL

### We offer You :

- > Flexible working hours
- > Opportunity for Bachelor or Master thesis in this area
- > You will have the opportunity to gain experience and participate in interesting and innovative international project
- > We prefer applications from severely disabled people if they are professionally qualified.
- > Remuneration 12.41 €/hour (without bachelor) and 12.77 €/hour (with bachelor's degree)

### Contact: Please send your application to : [bewerbung@offis.de](mailto:bewerbung@offis.de)

If you agree to our considering your application for other vacancies, then please inform us accordingly by including an informal consent in your covering email or attaching our [consent form \(PDF-Download\)](#) to your application.

#### Contact Person:

Dr.-Ing. Jirapa Kamsamrong  
[bewerbung@offis.de](mailto:bewerbung@offis.de)

#### Postal Address:

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Further information on the application procedure and data protection can be found at <https://t1p.de/OFFIS-Application-Data-Protection>.