

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) Renewable Energy Management for Redispatch Operations in Distribution Grids

Focus of the Research Group:

The Smart Grid Testing group aims to implement different Controllable Local System (CLS) management toolchains in the OFFIS Energy Laboratory to perform data exchange with renewable energy sources (RES) that are smaller than 100 kWp installed power. Furthermore, the CLS has to be connected to existing communication chains of network operators for data collection and control measures. Proprietary and standardized communication is used to interact in an SCADA-System between Human-Machine Interface (HMI) and RES.

Your Tasks:

- > Research on possible communication interfaces.
- > Research on data models for CLS-Management tools
- > Assist in tasks related to CLS-Management tool integration:
 - > Implement hardware and software in OFFIS Energy Laboratory
 - > Realize interfaces between CLS-Management, RES and an HMI
 - > Scenario based demonstrations
 - > Documentation of implementations, scenarios and results

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 energy systems and ICT
- > Experience in Programming (Programming language is flexible)
- > Good knowledge of Linux Systems

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 projects.
- > We give preference to applications from severely disabled people who are professionally suitable.
- > Remuneration 10.69 €/hour (without bachelor) and 12.43 €/hour (with bachelor's degree)

Contact: Please send your application to : 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
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Postal Address:

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Further information on the application procedure and data protection can be found at <http://bit.ly/OFFIS-Application-Data-Protection>.