

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) Geographically Distributed Real-time Co-simulation in the power system

Focus of the Research Group:

The Smart Grid Testing group aims to develop new holistic approaches and investigate the interdependencies between power and ICT to ensure resilient, reliable and secure intelligent energy systems. Real-time simulation (RTS) is a powerful tool to understand and predict complex power-grid events and to test performance of power and controller hardware. Many research institutes across Europe are pooling their RTS capabilities to conduct very large-scale simulations

Your Tasks:

- > Review, collect and summarize the data from the literature
- > Draft a progress report
- > Assist in tasks related to geographically distributed real-time simulation:
 - > Understand the concept and basics of RTS, HiL simulation
 - > Work Simulink models
 - > Work with Linux (UBUNTU) based server hardware
 - > Learn about hardware time-synchronization

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 coding with MATLAB and modeling with Simulink (C/C++ and/or Python is a plus)
- > Good knowledge of Linux

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 12.00 €/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>.