

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



R&D-Division: Energy
Group: Resilient Monitoring and Control

Working hours: up to 40 hours a month
Start: as soon as possible

Student Assistant (f/m/d) Reliability Evaluation of Renewable-based Energy Systems

Focus of the Research Group:

The Resilient Monitoring and Control (ROC) group works in R&D projects on Key challenges of Cyber-Physical Energy System (CPES). The key topics of the group ROC are: 1) Decentralized multi-domain sensor data fusion and analysis; 2) State Estimation, Monitoring and state identification of Dynamic Systems; 3) Digital Twins of CPES; and 4) Data-driven Predictive Maintenance of Renewables.

Your Tasks:

For the research project “Systemdienstleistungen für sichere Stromnetze in Zeiten fortschreitender Energiewende und digitaler Transformation” (SiNED), we are now looking for a student assistant in a Python based reliability modeling of electrical distribution systems with the integration of renewable energy sources. The aim is to maintain the reliability level of the required ancillary services which provided by uncertain distributed renewable energy sources, such as wind turbines and PV units. Your part mainly focuses on deploying AS in a flexible manner by leveraging information technology.

Your Profile:

- > Enrollment at a university or university of applied sciences
- > Experience in programming languages, preferably Python
- > Basic knowledge of power system modeling, familiarity with pandapower is a plus
- > Basic understanding of optimization methods
- > Independent and careful way of working

We offer You:

- > Collaboration in innovative research projects on the energy system domain
- > Active participation and contribution to shaping a young research topic
- > Excellent support and integration into our team
- > Flexible working hours by arrangement
- > Possibility for Bachelor or Master theses in this field
- > 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:

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