

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 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: Power Systems Intelligence

Work hours: up to 42 hours / month  
Start: immediately or by arrangement

## Student research assistant (f/m/d) Software Testing for AI for the resilient operation of energy networks using Adversarial Resilience Learning

### FOCUS OF THE RESEARCH GROUP:

The Power Systems Intelligence group works in research and development projects on solutions for a decentralized, decarbonized and cyber-resilient energy supply and specializes in machine learning and artificial intelligence methods. The group researches and develops solutions at the interface between power grid, energy market, artificial intelligence and a cyber-resilient system understanding.

### YOUR TASKS:

Would you like to gain practical experience at Lower Saxony's largest research institute for computer science in addition to your studies? We are looking for a student to support our constantly growing team in the development of a decentralized deep enforcement framework. The main task is the support in the area of software testing in Python and the further development of existing test procedures.

The framework is a decentralized, asynchronous and event-driven Python application that allows the training of autonomous and self-adaptive agents as attackers and defenders in an environment such as the power grid. Due to the decentralized and asynchronous nature of the application, testing the individual components is an exciting task that offers many opportunities for the development of larger test concepts.

### YOUR PROFILE:

- > Enrollment at a university or university of applied sciences
- > Experience with and/or interest in **software testing**
- > Knowledge in **Python**, with **unit tests** and **system tests** or comparable
- > Independent and thorough way of working

### WE OFFER YOU:

- > Collaboration in innovative research projects on the use of artificial intelligence in critical infrastructures
- > 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 in line with the universities in Lower Saxony: 10,69€/hour (without Bachelor) and 12,43€/hour (with Bachelor)

**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:**  
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