

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 approx. 230 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: Resilient Monitoring and Control

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

## Student Assistant (f/m/d) Digital Twin Development

### Focus of the Research Group:

The Resilient Monitoring and Control (ROC) group works in research and development projects on key challenges of cyber-physical energy systems (CPES). The key topics of the group ROC are: 1) state definition, monitoring, and state estimation of CPES with a strong focus of the integration of the information and communication system; 2) trust in CPES, services, and components; and 3) digital twins of CPES; and 4) data-driven Predictive Maintenance of Renewables.

### Your tasks:

For the research projects “De-Risking Electrolyzer” (DERIEL) and “Series production of electrolyzers in the gigawatt range” (SEGIWA), we are now looking for a student assistant to help in the development of a digital twin with additional services for electrolyzers, such as remaining useful life (RUL) prediction. Your part is to support the development as part of an agile SCRUM team, which gives you the opportunity work on different challenges you decide by your own to tackle. You can bring in your own expertise but also extend your knowledge by working with interesting technologies as well as on yet not solved research questions.

### Your profile:

- > Enrollment at a university or university of applied sciences
- > Experience in programming languages
- > Basic knowledge of Docker, Kafka and Grafana (not necessary)
- > Basic knowledge of machine learning methods
- > Independent and careful way of working
- > Willingness to communicate and work in a team

### 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](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:

Michael Brand  
[bewerbung@offis.de](mailto:bewerbung@offis.de)

### Postal Address:

OFFIS e. V.  
Personalabteilung  
Escherweg 2 | 26121 Oldenburg

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