

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: Energy-efficient Smart Cities

Working hours: according to mutual agreement  
Start: as soon as possible

## Student Assistant (f/m/d) Software Development for Energy Systems



### Our Research Group:

The [Energy-efficient Smart Cities group](#) looks at different aspects of digitalisation which are becoming increasingly indispensable for the creation of energy-efficient districts and cities.

### Your Tasks:

- > Modelling of an energy system based on the Entity-Component-System (ECS) software pattern, known from game development
- > In the modelling phase, the many differences and similarities of the energy systems are to be transferred to different components, which can be flexibly combined into entities to describe any system.
- > Implementation of the model in software as a prototypical microservice
- > Based on the experiences made here with the implementation of the model, the strengths and weaknesses of the model are to be evaluated, which it could contribute to an energy management system.

### Your Profile:

- > Enrolment at a university or university of applied sciences
- > Verbal and written communication skills in English (German is a plus)
- > Experience or interest in conception and development of software solutions in common programming languages (preferably Java, Python or Rust)
- > Ideally, initial experience with technologies such as Docker, Git and InfluxDB
- > Ability to independently develop ideas to solve problems

### We offer You :

- > Flexible working hours and work in home office
- > A pleasant and highly modern working environment in the context of smart cities
- > A multifaceted and challenging area of responsibility as a member of a great team
- > Opportunity for Bachelor or Master thesis in this or other areas
- > Remuneration 12.00 €/hour (without bachelor) and 12.77 €/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:

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