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R&D-Division: Energy | Work hours: up to 42 hours / month  
Group: Energy-efficient Smart Cities | Start: immediately or by arrangement

## Student research assistant (f/m/d)

# Development of an communication interface to register shiftable energy loads in an energy management system for a local energy network

### FOCUS OF THE RESEARCH GROUP:

The Energy-efficient Smart Cities group looks at different aspects of digitization, which are becoming increasingly indispensable for the creation of energy-efficient districts and cities. The group's flagship project is the „Energetic Neighbourhood Quarter at Oldenburg Air Base“ project, in which the practical implementation of an energyoctimized quarter within the scope of the real laboratory at Oldenburg Air Base is aimed at.

### YOUR TASKS:

You support the team in the development of a system to supervise and control local energy systems. This system needs an interface for external systems so that these can request at which times they can consume their energy best and then register their scheduled loads. This is necessary as the energy consumption in the neighbourhood should fit to the local generation as close as possible.

The current system is written as Java microservices with Spring Boot and communicates mainly via REST and AMQP / MQTT. Hence, when developing the described interface, these technologies shall also be used.

### YOUR PROFILE:

- > Matriculation in a university or university of applied science
- > Experience in software development with Java. Other languages such as Python are also possible.
- > Experience with distributed software development with Git and CI / CD are desirable
- > Ability to integrate in our development process
- > Ability to work independently and accurately

### WE OFFER YOU:

- > Participation in an innovative and local research project
- > Working with up-to-date technologies
- > Possibility to be involved in the design and development process and to bring in own ideas and interests
- > Flexible working times
- > 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..

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