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R&D-Division: Energy  
Group: Energy-efficient Smart Cities

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

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

# Conception and development of a communication library for smart meter gateways

### 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:

Smart meter gateways (SMGWs) are the future energy meters that have the ability to communicate via the internet. They don't only have the ability to communicate the current metering values but also have a communication interface for controllable devices. This so-called CLS (controllable local system) interface shall be the secure interface for controllable devices to the internet. We as a group want to use this interface for current and future research projects. To do that, we need to learn about the way this interface works and how to use it. Therefore, your task is to understand, document and present the way this interface works. On the foundation of this work a software (-library) shall be designed and developed that allows and eases the work with the CLS interface. The resulting software library shall be used with JVMbased languages such as Java and Kotlin.

### YOUR PROFILE:

- > Matriculation in a university or university of applied science
- > Experience in software development with Java and / or Kotlin
- > Bonus points for prior knowledge in web development
- > 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..

**Contact Person:**  
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