

Student/ Research Assistant in the field of Distributed Calculating and System Architecture

The Innovation Center for Computer-Assisted Surgery (iCCAS) was founded in 2005. It is one of the interdisciplinary research centers of the Medical Faculty of the University of Leipzig. Here, engineers and computer scientists work closely with medical professionals to optimize and develop new assistance systems for the surgical field.

For our research project 6G-Health we are looking for motivated student / research assistants to support us in the field of distributed calculating and system architecture.

Activities

- Participation in the design and implementation of distributed architectures in the medical environment
- Development of algorithms for the efficient transformation and forwarding of medical sensor data
- Investigation of energy-efficient communication protocols (e.g. Bluetooth, Thread, LoRaWAN, 6G)
- Application and evaluation of edge computing strategies and server-side processing pipelines
- Integration of specialized hardware modules (SDR, neuromorphic circuits, etc.) into modern device infrastructures
- Scientific exchange in an interdisciplinary team with flat hierarchies

Scope

- Assistant position between min. 10h/week and max. 19h/week
- Salary depending on existing degree:
 - SHK: €13.98/h
 - WHK (Bachelor): €15.44/h
 - WHK (Master): €21.00/h
- An employment relationship that is as long-term as possible
- Opportunities for final theses

Requirements

- Ongoing studies in a technology-related degree program (e.g. computer science, medical technology, electrical engineering, engineering sciences)
- Interest in distributed systems, communication technologies, embedded devices and medical technology
- Independence, diligence and reliability
- Business fluent German and very good English skills
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- Business fluent in German
- good knowledge of English

contact

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