Fraunhofer
IIS

CAN I COMBINE SCIENCE AND BUSINESS IN A SINGLE JOB?

YES.

We´ll show you how at Fraunhofer IIS.

For the **Broadband & Broadcast** division in **Erlangen**, the Fraunhofer Institute for Integrated Circuits IIS is currently seeking a

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Student Assistant / Intern

for the Topic:
Mobile / Multi-Access Edge Computing in 5G environments

The Broadband & Broadcast (BB) department is active in the areas of mobile communications, satellite communications, Internet-of-Things and automotive communication systems. We take new concepts and algorithms from theory, implement them and test them in simulations and in prototypes in our labs and in the field. For instance, we operate a commercial LTE-Advanced testbed network, which we use to check the interoperability of our prototypes with the LTE standard. In short, the BB department establishes a bridge between communication theory and its employment in practice.

Abstract:
Cloud computing creates the possibility for mobile devices to offload high-performance tasks to servers located in the cloud. Taking autonomous driving as an example, low-latency and redundancy requirements need to be fulfilled to enable offloading of computing tasks. The concept of mobile / multi-access edge computing (MEC) brings the necessary computing power closer to the user equipment (UE). MEC enables the task processing nearby the devices where data is generated or consumed. The communication of UEs, MEC and cloud servers can be complemented by integrating Software-Defined Networking (SDN). Fraunhofer IIS is currently setting up a 5G network including MEC functionality to enable tests of technologies in a real environment. The work focuses on research and development of technologies as well as applications for MEC.

Your responsibilities:
- Research on MEC technologies
- Setup of MEC testbed(s) based on modern technologies
- Assistance in research for publications

Your profile: You …
- study computer science or similar
- are very interested in working on new/"edge" technologies
- are interested and/or have knowledge in Software-Defined Networking (e.g. OpenFlow)
- have knowledge in virtualization with Containers (Docker, Kubernetes, …), Virtual Machines and Networks
- have skills in programming (e.g. Python)

What you can expect from us
- An **open and cooperative** working environment
- Collaboration in **interesting and innovative projects**
- Many opportunities to gain **practical experience**

Interested?
Please apply for this position using the following link: https://recruiting.fraunhofer.de/Vacancies/48200/Description/2
Applications are possible **in German and English**. Please include a cover letter, your CV and your latest transcripts of records (as PDF) and quote ID number **48200**. Address your application to Nina Wörlein.

Please let us know how you learned about this job opportunity.
Additional information is available on our website: www.iis.fraunhofer.de/en