

CAN I COMBINE SCIENCE AND BUSINESS IN A SINGLE JOB?

YES.

We'll show you how at Fraunhofer IIS.

For the »**Smart Sensing and Electronics**« division in **Erlangen**, the Fraunhofer Institute for Integrated Circuits IIS is currently seeking

Student Assistants

for the Development of Artificial Intelligence Algorithms on Edge Devices

Computing on edge devices is gaining prominence with the evolution of Internet of Things. At Fraunhofer IIS, we develop application-specific circuits for edge devices used in industry and research. In our division »**Smart Sensing and Electronics**«, we conduct research on embedded sensor solutions that employ machine learning algorithms. Further, we develop intelligent algorithms keeping the target hardware in focus. In the direction of development of artificial intelligence on edge devices, we have embarked on a journey of deploying machine learning models on devices that process real-time data with optimal memory footprint.

Your tasks:

- You familiarize with the toolchains for deploying neural networks on target hardware
- You deploy and test existing algorithms for classifying or analyzing sensor data
- You engineer a prototype for real-time analysis and demonstration

Your profile:

- You are currently studying computer science or a related field
- You have experience in Python and TensorFlow
- You have hands-on experience with STM32 or similar microcontrollers or Raspberry PI, and are familiar with their AI extension tools
- You are familiar with neural network quantization techniques

What you can expect from us

- An **open and cooperative** working environment
- Collaboration in **interesting and innovative projects**
- Many opportunities to gain **practical experience and attend seminars**
- **Flexibility** concerning your **working hours**

This position can also be adapted to fulfill requirements of Internships or Master's theses.

If you have any questions about this opening, please contact Bhargavi Mahesh (bhargavi.mahesh@iis.fraunhofer.de).

Interested?

Please apply for this position using the following link: <https://recruiting.fraunhofer.de/Vacancies/58541/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 **58541-SSE**. 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