

CAN I COMBINE SCIENCE AND BUSINESS IN A SINGLE JOB?

**YES.**

We'll show you how at Fraunhofer.

FOR THE »**AUDIO AND MEDIA TECHNOLOGIES**« DIVISION IN **ERLANGEN**, THE FRAUNHOFER INSTITUTE FOR INTEGRATED CIRCUITS IIS IS CURRENTLY SEEKING A

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## **RESEARCH ASSOCIATE\* IN DEEP LEARNING FOR SPEECH AND AUDIO SYNTHESIS AND CODING**

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**You have always been interested in speech and audio synthesis and coding and you find recent advancements in deep learning exciting?**

**If so, we have the right job for you!**

### **Your tasks**

Our speech processing team is looking for a research engineer or research scientist to help us develop cutting-edge technologies based on deep neural network learning for our products. Our team is responsible for investigating new ways to solve challenging signal processing problems using deep neural networks, particularly for text-to-speech and speech coding applications. Advanced machine learning techniques such as generative adversarial networks (GANs) will be considered for this purpose. Your role will be to study and learn new machine learning concepts to efficiently synthesize and represent speech and audio signals, and to make these methods usable in real time on mobile and embedded devices.

### **About us**

The »Audio and Media Technologies« division of Fraunhofer IIS constitutes one of the world's largest organizations dedicated to

audio, speech, and media processing. It has been an innovator in sound and vision for over 25 years and repeatedly won international competitions in the audio and media field: e.g. with mp3 and codecs of the AAC-family. Over 200 engineers and scientists develop first-rate technology, which is sold world-wide.

#### What we expect from you

- A scientific degree (Master, Ph.D. or equivalent) in Electrical Engineering, Computer Science, Engineering Sciences, Media Technologies, Neurosciences, or a related subject
- Expertise in machine learning and deep neural networks
- Good background in digital signal processing, especially related to speech processing and analysis
- Good programming skills, at least in Python and C/C++, and preferably knowledge in MATLAB and PyTorch
- Fluent English for collaborative work in an international team

We are also happy to welcome applications of committed **Junior Professionals** with **relevant knowledge** and first practical experience from final theses.

#### What you can expect from us

We offer you a varied and challenging work in an enthusiastic team. You can contribute your own ideas and help design new concepts. Regular training is provided, as well as flexible and family-friendly working arrangements such as part-time contracts. You will have a state-of-the-art workstation in a modern, bright office for 2 or 3 people.

Appointment, remuneration and social security benefits based on the public-sector collective wage agreement (TVöD).

In case of identical qualifications preference will be given to severely disabled candidates.

We would like to point out that the chosen job title also includes the third gender.

The Fraunhofer-Gesellschaft emphasises gender-independent professional equality.

Fraunhofer is Europe's largest application-oriented research organization. Our research efforts are geared entirely to people's needs: health, security, communication, energy and the environment. As a result, the work undertaken by our researchers and developers has a significant impact on people's lives. We are creative. We shape technology. We design products. We improve methods and techniques. We open up new vistas.

#### Interested?

**Join our team and work with us on the technology of tomorrow!**

**We look forward to receiving your complete application (cover letter, CV, transcripts). Please submit these online - quoting reference number IIS-2021-AME77 - via our career portal: <https://recruiting.fraunhofer.de/Vacancies/61231/Description/2>.**

**For more information about the institute and its products and services, please visit: [www.iis.fraunhofer.de](http://www.iis.fraunhofer.de)**

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