



With us, you don't
just talk the talk,
you walk the walk.

Change starts with us.

Working Student - Application development (desktop, mobile, web) in the field of 3D audio communication

The Fraunhofer-Gesellschaft (www.fraunhofer.com) currently operates 76 institutes and research institutions throughout Germany and is the world's leading applied research organization. Around 32 000 employees work with an annual research budget of 3.4 billion euros.

Our group „Multimedia Communications“ is part of the [Audio and Media Technologies](#) department and makes the newest 3D audio research experienceable.

We develop real-time demo applications for smartphones, web, and desktop platforms by assembling our in-house digital audio signal processing components into functional frameworks. By integrating these components with other systems—such as head-trackers for position determination or AR/VR glasses—we generate realistic 3D audio signals. This allows users to interactively experience high-quality spatial audio communication for music and entertainment, as well as for telephony and communication.

Are you interested in the newest developments in 3D audio and want to help creating user-experienceable applications?

Then have a look at our offer!

What you will do

- You create 3D audio applications for smartphones (Android or iOS), desktop, or browsers
- You integrate internally developed audio codecs and audio signal processing algorithms into functional systems
- You continuously test and deploy software and applications using CI/CD pipelines
- You research new technologies and apply them to projects

What you bring to the table

- You are currently studying information and communication technologies, computer science, electronic engineering, or a related field
- You have experience in at least one of the programming languages: C/C++, Rust, Python, JavaScript or similar
- You are ideally familiar with the development of mobile, desktop, or web applications
- You have good communication skills in English and like collaborative work in an international team
- You have basic knowledge of digital audio signal processing and/or acoustics (not mandatory)

What you can expect

- **Flexible** working hours
- **Open** and **friendly teamwork**
- **Varied** tasks with room for **creativity**
- Exciting **seminars** and **events**
- **Networking** with scientists
- **Active contribution** in applied research
- **Interesting** and **innovative** projects
- **Mentoring program** »[josephine@iis.fraunhofer.de](#)« for talented female students

Weekly working hours are determined by agreement. You can start from now on (as a student assistant up to **20** hours a week). You can reduce your hours before exams and increase them during semester breaks. You can flexibly determine the working days. After your studies, you have the option of working with us full or part time.

We value and promote the diversity of our employees' skills and therefore welcome all applications - regardless of age, gender, nationality, ethnic and social origin, religion, ideology, disability, sexual orientation and identity.

Interested?

Apply [online](#) now (PDF: cover letter, CV, transcripts). We look forward to getting to know you!

Eva Wiemer
Fraunhofer-Institute for Integrated Circuits IIS
www.iis.fraunhofer.de/en

Requisition Number: xxxxx

Application Deadline: none

