

CAN I COMBINE SCIENCE AND BUSINESS IN A SINGLE JOB?

YES.

We'll show you how at Fraunhofer IIS.

YOU LOVE FINDING CREATIVE SOLUTIONS FOR TRICKY CHALLENGES? YOU ARE PASSIONATE IN AI AND SIGNAL PROCESSING? THEN JOIN OUR TEAM ON HUMAN CENTERED AI NETWORKS.

Researcher Human Centered AI Networks

Your task is to develop a live-testbed and demonstration platform for AI algorithms in communications, based on state-of-the-art software-defined radio (SDR).

This involves

- SDR specific implementation for low-latency data streaming with standard PC hardware
- Provide a software environment that allows other developers an easy development, testing, and demonstration of their algorithms, incorporating real RF signal
- Demonstration of example AI communications algorithms (use cases) on your developed platform

What we expect from you

- A scientific degree in Electronics, Computer Science, Natural Sciences, Engineering Sciences, Mathematics, Neurosciences or a related subject
- Sound programming experience in C++ and Python
- Understanding machine learning and AI
- Knowledge in communications systems (physical layer) and signal processing
- Experience with SDR platforms
- Ideally, you are already experienced with low-latency Ethernet (e.g., via DPDK)
- Enthusiasm for scientific issues and scientific working methods
- Engineering mindset
- Sound command of English for working in an international team

What you can expect from us

By working on a **wide range of pioneering projects** with a strong practical component, you will help shape the technology of tomorrow and beyond. We offer an **open and friendly working environment** and a **personalized development plan** tailored to your needs through our comprehensive range of further training/education opportunities. We promote your **work-life balance** by offering flexible working hours and various support offers that help in your balancing private life and career.

Appointment, remuneration and social security benefits based on the public-sector collective wage agreement (TVöD). Additionally Fraunhofer may grant performance-based variable remuneration components.

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.

This vacancy is also available on a part-time basis.

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.

For over 30 years, the Fraunhofer IIS has been shaping the globally deployed standards and technologies in the fields of audio and communication. Starting with the creation of mp3 and continuing with the co-development of AAC and many contributions to both mobile communication and radio broadcast, almost all consumer electronic devices, computers and mobile phones are equipped with systems and technologies from Erlangen today. Meanwhile, a new generation of best-in-class media technologies is elevating the user experience to new heights. Always taking into account the demands of the market, Fraunhofer IIS develops technologies that create unforgettable moments.

Interested?

Then we look forward to receiving your complete application (cover letter, CV, transcripts). Please submit these online with reference number IIS-2021-KS80 to Meike Hillenbrand via our career portal:

<https://recruiting.fraunhofer.de/Vacancies/61414/Description/2>

For more information about the institute and its products and services, please visit

www.iis.fraunhofer.de