

The Institute of Microwaves and Photonics (LHFT) at the Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU) in Germany invites applications for the role of **PhD Research Assistant** in

**“High Performance Microwave and mm-Wave
Component and System Architectures”**

Scope:

Within this project, innovative system and component concepts for high bandwidth, high sensitivity microwave and millimeter-wave transceiver frontends in future's radar and communication systems will be investigated. Involved aspects include signal synthesis principles, self-interference cancellation and in-band full duplex methods, multichannel architectures for MIMO as well as digital signal processing backends. The hardware-oriented research activities consist of novel system architecture conception, design and implementation based on hybrid technologies (planar substrate structures, commercial active components, 3D printed components and interconnects), experimental validation and results dissemination.

Requirements:

We are seeking motivated, creative candidates, who are capable of working in a multidisciplinary team, and who have an above-average primary university qualification (master degree or diploma) in electrical engineering or a related field. Knowledge in one or several of the areas microwave and millimeter-wave planar circuit design, RF frontend design, radar techniques, wireless communication and FPGA-based digital signal processing is desirable. A good command of the English language is prerequisite.

Work Environment:

As one of the leading institutes in microwave and photonic techniques, LHFT can offer PhD students outstanding opportunities in this project. Among the core values of our interdisciplinary team and in our state-of-the-art labs are scientific excellence, good teamwork and knowledge sharing.

Position:

This is a temporary role. The appointee may pursue doctoral studies in the department. Remuneration is based on the collective agreement for civil servants in Germany (up to TV-L E13, fulltime position). Applications from severely disabled persons, in the case of equal suitability, will be preferentially treated. Qualified female candidates are especially encouraged to apply as there is a policy in place at the University to increase the proportion of female staff. Please submit your application by e-mail:

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<https://www.lhft.eei.fau.de>

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