

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

### **“Microwave 6G RadCom System and Transceiver Design”**

Applicants should be qualified to graduate degree (master degree or diploma) in electrical engineering, communications technology, or in a related discipline. The successful candidate can start as soon as they are available.

The project will involve the research on cutting edge methods for innovative Microwave / Millimeterwave 6G RadCom Systems, Transceiver Designs and RFSoc based baseband systems. It is the goal to research on future 6G communication systems that incorporate radar based environment sensing and ultra-precise wireless locating functionality. The application area of the systems will be campus networks, autonomous vehicles / robotics and smart factory / smart city solutions.

As one of the leading institutes for microwaves and photonics and with close ties to global corporations in radar and communication systems and with its expertise in wireless communication, radar imaging, wireless locating systems, 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 good teamwork and knowledge sharing.

We are seeking motivated, creative candidates, who are capable of working in a team, and who have an above-average primary university qualification in electrical engineering / information technology / communications engineering or a related field. Knowledge of microwave engineering, and of microwave and millimeterwave system designs is required. Basic knowledge of FPGA programming, high-speed digital SoC systems is desirable. A good command of the English language is prerequisite.

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:

Prof. Dr.-Ing. Martin Vossiek  
FAU Erlangen-Nürnberg, Institute of Microwaves and Photonics (LHFT)  
Cauerstraße 9, 91058 Erlangen, Germany

Email: [martin.vossiek@fau.de](mailto:martin.vossiek@fau.de)

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

<https://www.fau.eu>