

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

“Photonic Sensor Systems for Ultra-High Precision Range and Motion Detection”

Scope:

Within this project, innovative optical coherence tomography and coherent LiDAR system architectures and components for extremely precise range and motion sensing in medical and industrial applications will be investigated. In particular, fiber optic signal generation, modulation and detection as well as free space optic beam steering and focusing methods constitute the core of this work. The hardware-oriented project covers sensor system conception and simulation, design and implementation, experimental validation as well as 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 fiber optic sensor systems, optical coherence tomography, wave and geometrical optics 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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