

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

“Optical Coherence Tomography for Human Skin Motion and Surface Sensing”
A05

Background:

The planned research is embedded as one of 19 exciting scientific subprojects in the Collaborative Research Centre (CRC) 1483 EmpkinS. CRCs are one of the most renowned research measures in Germany. It is the aim of this subproject to research optical coherence tomography and LiDAR system architectures and technologies for precise contactless micro-motion and micro-structure sensing on the human skin surface. The project will be carried out in close corporation with our CRC partners from the biomechanical and medical area.

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 (e.g., information technology, physics, computer science, mathematics, mechatronics, etc.). Knowledge in one or several of the areas fiber optic sensor systems, optical coherence tomography, wave and geometrical optics, laser physics, and 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.

The LHFT is part of the Faculty of Engineering which awards the academic degree Doctor of Engineering (Dr.-Ing.).

Position and Application:

The project start date is July 1 or later. This is a temporary position that is at least available for 3 years. Remuneration is based on the collective agreement for civil servants in Germany (TV-L E13, fulltime position). The appointee may pursue doctoral studies in the Faculty of Engineering.

Applications from severely disabled persons, in the case of equal suitability, will be treated preferentially. 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 (motivation letter, tabular CV, certificates) **as one document** indicating the project code A05 by e-mail to **empkins-jobs@fau.de**.

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