

We are a young, innovative university in the middle of the Metropole Ruhr. Excellent in research and teaching, we think in terms of possibilities instead of limits and develop ideas with a future. We live diversity, promote potential and are committed to educational equity worthy of the name.

In the context of a future DFG Excellence Cluster application, the University of Duisburg-Essen together with the Ruhr-University Bochum is planning an interdisciplinary research collaboration entitled *THz-TriCorder – THz for Humans and their Environment* with participation of engineering and medical faculties.

The **University of Duisburg-Essen** (Duisburg campus) in the Faculty of Engineering, and in particular in the **Laboratory for General and Theoretical Electrical Engineering (ATE)** offers the following opening

**Research assistant (f/m/d) at universities (pay group 14 TV-L)
(pay group 13 TV-L) / Post Doctoral Position**

Your main responsibilities:

- Management and expansion of a small research team in the field of THz bioelectromagnetics with a focus on electromagnetic dosimetry and biomedical engineering applications.
- Electromagnetic and multiphysics simulations of biological tissue.
- Expansion of a measurement laboratory for tissue microdosimetry based on mm-wave/THz transmission and near-field measurements.
- Physical channel models for mm-wave/THz body-area networks.

As part of the activity, opportunities are provided for the development of a small research group.

Your profile:

- Very good PhD in electrical engineering covering at least one of the following research areas: Radiofrequency, Microwave or THz Engineering / Microwave or THz Measurements / Computational Electromagnetics / Multiphysics Simulations / Bioelectromagnetics.
- Experience in the coordination as well as acquisition of research projects, own publications of research results in high-ranking, scientific journals.
- Excellent english skills, both written and spoken.
- Willingness and pleasure in scientific work in a team are absolutely necessary.

We offer:

- A varied, diverse range of responsibilities, working as part of a successful research lab.
- Further education and training.
- Sports and health services (university sports).

<u>Occupation date:</u>	as soon as possible
<u>Contract period:</u>	31.12.2023 (prolongation planned)
<u>Working time:</u>	100 percent of a full-time position
<u>Application deadline:</u>	within 4 weeks after publication (20.02.2022)

The University of Duisburg- Essen pursues the goal of promoting the diversity of its members (further information: <http://www.uni-due.de/diversity>)

It aims to increase the proportion of women among scientific personnel and therefore strongly encourages relevantly qualified women to apply. In accordance with the State Equal Opportunity Act, women with equal qualifications are given preferential consideration. Applications from suitable severely disabled persons and persons of equal status within the meaning of Section 2 (3) SGB IX are welcome.

Please send your application with the usual documents electronically (e-mail) and in writing, quoting the reference number TriCorder1, to Katja Johrendt, University of Duisburg- Essen, Faculty of Engineering, 47048 Duisburg, e-mail: katja.johrendt@uni-due.de.

Information about the subject area can be found at:
<http://www.ate.uni-due.de>

