

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.

The BMBF-funded «6G Research Hub for Open, Efficient and Secure Mobile Communications Systems (6GEM)» plans a 4-year research collaboration of the four NRW universities RWTH Aachen, Ruhr-Uni Bochum, TU Dortmund, Uni Duisburg-Essen and the partner universities TU Ilmenau and Uni Erlangen-Nürnberg..

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 13 TV-L)
(pay group 13 TV-L)**

Your main responsibilities:

- Dedicated scientific participation in 6GEM and in particular in the field of bioelectromagnetics, i.e. electromagnetic tissue microdosimetry in the *THz Communications* subproject.
- Electromagnetic and multiphysics simulations of biological tissue.
- Validation of microdosimetry based on mm-wave/THz transmission and near-field measurements.
- Physical channel models for mm-wave/THz body-area networks.

Within the scope of the job, opportunities for further scientific qualifications (**doctorate**) are offered.

Your profile:

- Very good university degree (Master or Diploma) in electrical engineering of at least 8 semesters and one of the following specializations: Radiofrequency, Microwave or THz Engineering / Computational Electromagnetics / Multiphysics Simulations / Bioelectromagnetics.
- Preferably first experience in research projects and especially the publication of research results.
- 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>	48 months / 4 years
<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 6GEM1, to Katja Johrendt, University of Duisburg- Essen, Faculty of Engineering, 47048 Duisburg, e-mail: katja.johrendt@uni-due.de.

Information about the subject area and the project 6GEM can be found at:

<http://www.ate.uni-due.de>
<http://www.6gem.de>

