

We are a young, innovative University in the heart of the Ruhr Metropolitan Region. Excellent in both research and teaching, we are open-minded and develop sustainable ideas for the future. We stand for diversity, promote individual's capabilities, and are committed to educational justice that deserves the name.

The **University of Duisburg-Essen** has an open position as

Scientific Researcher (f/m/d)
(salary group 13 TV-L, 100 %)

to be fulfilled at the **Campus Duisburg**, in the Faculty of Engineering (Chair of Electronic Materials and Nanostructures).

The Chair of Electronic Materials and Nanostructures is member of the Center for NanoIntegration of the University of Duisburg-Essen (CENIDE), which bundles the nanotechnology sciences at the University with approx. 80 working groups.

Your tasks

Nanoscale electronic devices are crucial for innovation in information and energy technology. An understanding of electronic and thermal properties on a nanoscale helps to explore the limits of miniaturization in microelectronics or to optimize thermoelectric devices for the generation of electrical energy from waste heat. Using the latest scanning probe techniques, you are investigating the interaction of electrical and thermal behavior in devices for microelectronics and thermoelectrics on a nanometer scale. The findings will be used to draw conclusions about the choice of materials and process parameters for the next generation of devices. You plan and carry out these experiments in collaboration with our international cooperation partners from Belgium and Poland, as well as from the DLR in Cologne.

Your profile:

- Completed university studies in Nanoengineering/Nanosciences, Electrical and Electronics Engineering, Physics or Materials Sciences of at least 8 semesters
- Desirable are experiences in one or more of the following areas: scanning probe techniques, material sciences, thermoelectrics, microelectronics, 2D materials
- Independence, sense of responsibility and strong interest in research

Within the scope of the position, opportunities for further scientific qualification are provided.

We offer:

- a vibrant, multifaceted field of activity in a research-intensive environment with international partners
- a pleasant working atmosphere in a dynamic team
- the possibility for earning a PhD with numerous support offers
- family friendliness through childcare facilities for your children
- counselling for family caring responsibilities
- a broad training and further education programmes, individual training
- a very good public transport connections and free car parking
- attractive sports and health programmes (university sports)

Starting date 01.10.2024

Contract duration 3 years, extension is possible

Working hours 100 % of a full-time contract (part-time employment is possible)

Application deadline until 08.09.2024

Please send your application with the usual documents, stating the reference number 500-24, to Dr.-Ing. Wolfgang Mertin, University of Duisburg-Essen, Faculty of Engineering, 47057 Duisburg, phone +49-(0)203-3793407, e-mail wolfgang.mertin@uni-due.de.

Information about the hiring institution can be found at: <http://www.uni-due.de/wet>

The University of Duisburg-Essen aims to promote the diversity of its members (find more information under <https://www.uni-due.de/diversity>).

The University is striving to increase the proportion of women in the scientific staff and therefore urges qualified women to apply. According to the NRW State Equal Opportunities Act, women are given preferential treatment if they have the same qualifications.

Applications from severely disabled people and people of equal status (§ 2 Abs. 3 SGB IX) are highly desired.

