

*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 **Universität Duisburg-Essen** is searching in the Faculty Engineering Sciences, Technology of Nanostructures, Campus Duisburg, for a

### **Research Assistant (f/m/d)**

(pay group 13 TV-L)

The position is within the DFG project "Kinetics of structure formation of complex nanoparticles in model flow reactors" within the DFG research group "Model-based scalable gas-phase synthesis of complex nanoparticles" (FOR 2284).

#### **Your main tasks:**

- Performing measurements on thermally induced structural transformation in aerosols and determining associated kinetic constants, online measurements on reactors using aerosol measurement techniques, and related simulations of structural transformation. The working group provides equipment for the production of nanoparticle aggregates, size fractionation and thermal sintering in the gas-borne state. Several SMPS, ELPI, CPMA, TEOM, APS, as well as self-developed measurement devices are available as on-line measurement techniques. The group also runs a HREM with STEM and EDX.
- The results are to be presented in the form of project reports and scientific publications.
- Participation in the preparation and supervising of student courses and administrative tasks is included in the scope of duties.
- Within the scope of the job, opportunities for further scientific qualification are offered.

#### **Your profile:**

- University degree (optionally with PhD) in nanoengineering, mechanical/process engineering, chemistry or physics. Experience with aerosol technology, in particular aerosol measurement technology, and/or mechanical process engineering / particle technology of at least 8 semesters of regular study time.
- Enjoyment of and willingness to work in an interdisciplinary manner is required

#### **We offer:**

- A diversified, versatile field of activity
- Further education and training opportunities
- Discounted company ticket
- Sports and health offers (university sports)

**Date of appointment:** *as soon as possible*  
**Contract duration:** *24 months project duration*  
**Working hours:** *100 percent of a full-time position*  
**Application deadline:** *until 18.02.2022*

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

It strives to increase the proportion of women among its academic staff and therefore strongly encourages relevantly qualified women to apply.

In accordance with the State Equal Opportunity Act, women are given preferential consideration if they have the same qualifications.

Applications from suitable severely disabled persons and persons of equal status as defined by § 2 para. 3 SGB IX are welcome.

Please send your application with the usual documents to Dr. A. Trampe, University of Duisburg-Essen, Faculty of Engineering, 47048 Duisburg, phone 0203/379-3352, e-mail [andreas.trampe@uni-due.de](mailto:andreas.trampe@uni-due.de), quoting reference number 083/22.

Further information on the university and the group can be found on <https://www.uni-due.de> und <https://www.uni-due.de/nst>

