We are a young, innovative university in the middle of the Ruhr Metropolis. 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 equality that deserves this name.

The **University of Duisburg-Essen** is seeking in the **Faculty of Chemistry**, Institute of Inorganic Chemistry, at the **Campus Essen,** within the framework of the ***CRC/TRR 270 - Hysteresis Design of Magnetic Materials for Efficient Energy Conversion (HoMMage),*** subject to the availability of third-party funding, a

Scientific Researcher (f/m/d)
(Pay group 13 TV-L, 67%)

Main research topics and duties:

Research activities in the Disch group are centered on the structure, magnetism, and dynamics in functional nanoscale materials. In the context of the CRC/TRR 270 HoMMage, we will study the magnetization and spin disorder in nanostructured magnets. Using neutron scattering techniques such as magnetic SANS, unique information on the nanoscale magnetization reversal as a function of materials processing will be gained.

We are seeking a highly motivated researcher (f/m/d) with a Master or Diploma degree in chemistry, physics or related subjects with interest in X-ray/neutron scattering techniques and nanomagnetism who enjoy hands-on technological development. The selected applicant will study advanced nanostructured magnetic materials in close interaction with our collaboration partners within the CRC/TRR 270. The project will combine in-house characterization with neutron scattering experiments at international large-scale research facilities.
As part of this graduate position, the successful candidate will be offered the opportunity to undertake further academic training (leading to a PhD).

Your profile:
- Above-average university degree (1st state examination, diploma or master's degree) in chemistry, physics, or a related field of at least 8 semesters of standard study time
- A background in characterization of nanoscale materials or experimental techniques in condensed matter physics
- Experience in X-ray or neutron scattering, applied to nanoscale materials or colloids, is highly suited for this opportunity
- Experience in handling data and/or programming is desired
- Fluent in oral and written English
- A high degree of independence, while also encouraging interaction with colleagues

We offer:
- an active interdisciplinary research environment between chemistry, physics and materials science within a Collaborative Research Centre and Research Training Group
- a pleasant working atmosphere in a dynamic team
- access to and training on state-of-the art equipment
- further education and training and offers in the frame of CRC/TRR 270 and the university

Start of position: 01 January 2024 or later

Contract period: 3 years

Working time: 67% of a full-time position

Application deadline: 14 December 2023

The University of Duisburg-Essen aims to promote the diversity of its members (see http://www.uni-due.de/diversity).
It is seeking to increase the number of women on its scientific staff and therefore strongly encourages suitably qualified women to apply. In case of equal qualification, women will be given preference in accordance with state equal opportunity legislation. Applications from suitable handicapped persons and equivalent applicants according to Article 2, Paragraph 3 of the social code (SGB IX) are also welcome.

Your application should contain:

- A Cover letter (max. 1 page) describing your motivation for pursuing this work and how you expect the work to fit into your long-term goals
- A CV including relevant hands-on experience
- Diplomas with grades
- Contact details of at least two references familiar with your work

Please email your application as one pdf file to sabrina.disch@uni-due.de using the subject line “PhD application A12 HoMMage” and quoting the reference number **769-23.**

Information about the Team is available at: https://www.uni-due.de/chemie/ak_disch/ak_disch.php

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Zertifikat seit 2010

CRC/TRR 270