

We are a young, innovative university located in the heart of the Ruhr metropolis. We pride ourselves in outstanding research and teaching, think in terms of opportunities rather than limitations and develop ideas with a view to the future. Diversity is an integral part of our culture as we promote potential and are committed to upholding genuine equity in education.

UNIVERSITÄT
DUISBURG
ESSEN

Open-minded

RESOLV (Ruhr Explores Solvation) is a world-leading interdisciplinary research institution in Solvation Science awarded as a Cluster of Excellence by the German Excellence Strategy. Within RESOLV, scientists from six institutions in the Ruhr area covering experimental chemistry, theory and chemical engineering investigate how solvents are involved in the control, mediation and regulation of chemical reactions and processes. RESOLV's mission stretches from fundamental research to the translation into applications, including chemical energy conversion and heterogeneous catalysis.

At the **University of Duisburg-Essen**, in the **Faculty of Physics**, the following vacancy can be filled at the earliest possible point in time:

University Professorship (Bes.-Gr. W 3 LBes0 W) for "Scattering of x-rays/electrons at interfaces in time domain applications"

We seek a colleague with a focus on innovative techniques employing ultrashort x-ray photon and/or high energy electron pulses in scattering, imaging or spectroscopy experiments in the time domain. With an experimental program performed in house and at user facilities, the prospective colleague should offer a clearly defined perspective to address scientific questions involving dynamical processes at the liquid/solid, liquid/2D material or liquid/complex heterostructure interfaces. Close collaboration with the Collaborative Research Center 1242 and the RESOLV Cluster of Excellence is expected.

Applicants should demonstrate a vibrant research portfolio through publications in international peer-reviewed journals and extensive experience with acquisition and management of competitive third-party projects. The University of Duisburg-Essen places great emphasis on excellence in teaching and graduate education. Candidates should present their teaching concepts, illustrating their commitment to educating the next generation of scientists, and show their relevance to the teaching and learning profile of the University of Duisburg-Essen.

For such a colleague we offer a creative and welcoming atmosphere, underpinned by open discussion and given life by an enthusiastic faculty and staff committed to creating a stimulating environment for all, and a scientific setting not available anywhere else. The Faculty of Physics has a long tradition of collaborative research in the analysis of dynamical processes in condensed matter. This tradition lives today in the Collaborative Research Center 1242: Nonequilibrium Dynamics of Condensed Matter (www.crc1242.de/) largely within the faculty. Beyond the faculty, the Ruhr region boasts a remarkable concentration of researchers devoted to all aspects of solvation science, the RESOLV (Ruhr Explores Solvation) Cluster of Excellence (www.solvation.de), and its intersection with process-oriented studies of energy conversion and catalysis on real materials. The successful applicant for this position will pursue a research program enabled by the presence of both these communities. Beyond RESOLV and CRC1242 the local research ecosystem has particular strengths in magnetism, i.e. Collaborative Research Center TRR270 – Hysteresis design of magnetic materials for efficient energy conversion and in interdisciplinary nanoscience, i.e. the Center for Nanointegration Duisburg-Essen: CENIDE (<https://www.uni-due.de/cenide/>).

The successful candidate will be appointed to a tenured position, provided with funding for dedicated instrumentation, and supported by scientific and technical staff at the Duisburg campus. Access to a range of analytic instrumentation will be provided by the Interdisciplinary Center for Analytics on the Nanoscale ICAN (www.uni-due.de/ican), and by state-of-the-art equipment at ZEMOS, a research facility at the Ruhr University of Bochum (www.rub.de/zemos).

The hiring requirements comply with § 36 of the Higher Education Act of North Rhine-Westphalia (HG).

The University of Duisburg-Essen promotes the diversity of its members (<https://www.uni-due.de/diversity>). It strives to increase the percentage of women in its academic staff and therefore emphatically invites qualified women to apply. In the case of equal qualifications, female candidates will be considered with preference (Equal Opportunities Act). As per § 2 Sect. 3 SGB IX, applications by candidates with a disability or equivalent status are especially welcome.

Complete applications should contain a CV, list of publications, documentation of academic and professional development, copies of relevant documents and certificates, an exposé of the applicant's research profile with explicit description of how it complements and extends research directions within the University (CRC1242) and within the Ruhr region (RESOLV), a list of successful external grant applications, a list of courses taught and a teaching philosophy, and an enumeration of experience in academic self-administration. They should be sent by **17.05.2021** at the latest to the **Dean of the Faculty of Physics, Prof. Dr. Michael Schreckenberg, Forsthausweg 2, 47057 Duisburg, Germany, dekanat.physik@uni-due.de**.

Further information on the position, its integration into the University of Duisburg-Essen and the Faculty of Physics can be found at: https://www.uni-due.de/physik/dekanat/stellenausschreibungen_en.php

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