

*We are one of the youngest universities in Germany and think in terms of unlimited possibilities instead of possible limitations. Located in the heart of the Ruhr Metropolis, our 11 faculties develop ideas with a future. We are strong on research and teaching, we embrace diversity, promote academic potential, and we engage in genuine educational equality.*

## **The University of Duisburg-Essen is in search of the brightest minds**

We are looking for outstanding young researchers, to whom we offer the best opportunities for their academic and personal development. We provide individual early career support through the Graduate Center (GC Plus), the Tenure Track Programme (TT Plus) and the Human Resources Development Programme (PE Plus). Wherever bright minds connect and collaborate, everyone involved will benefit. That is why we join forces and share qualification and guidance programmes for career development with the Ruhr-University Bochum and the TU Dortmund University as part of the Research Academy Ruhr (RAR).

Within the framework of the “Bund-Länder-Programm zur Förderung des wissenschaftlichen Nachwuchses” – the Tenure Track Programme of the German Federal Government and the Federal States – 21 tenure-track junior professorships will be advertised. Currently, we are in search of eligible candidates for the following tenure-track junior professorship at the Faculty of Engineering:

### **Junior Professor in "Multifunctional, Intelligent, Underground Infrastructure for Fluids"**

**(Salary Class Group W1 LBesO W - with Tenure Track as per W2)**

We are looking for an excellent young scientist with a degree in engineering or equivalent, as well as a corresponding, outstanding doctoral degree. Advanced knowledge and experience in the systemic consideration of multifunctional underground fluid infrastructures are required. The field of activity consists of modeling and optimizing underground infrastructure systems in urban area open-circuit and pressure-operated systems. The research deals with the interface of fluids with innovative materials, network information systems and the support of planning, construction, operation and maintenance processes of the infrastructures. The modeling should consider mechanical, thermal and chemical-biological interactions between the fluids, suspended solids, the materials and the environment. The multifunctional use of infrastructure and new materials should be a key element. The willingness for interdisciplinary cooperation and participation in future research collaborations with scientists in related disciplines is required. There is the possibility for a close cooperation in applied research with the affiliated institute IWW Rheinisch-Westfälisches Institut für Wasserforschung. Additionally the Center for Water and Environmental Research of the University of Duisburg Essen gives access to an interdisciplinary network. In the field of teaching, the position supports the curricula in Civil Engineering and Computational Mechanics.

Publications in the field of expertise in peer-reviewed journals are expected, especially in leading international journals.

Experience in the procurement of competitive third-party funding, involvement in international research and international experience are desirable. Furthermore, leadership experience in research is beneficial.

The University of Duisburg-Essen places great emphasis on excellence in teaching. Candidates must present their teaching concepts, showing their relevance to the research profile of the University of Duisburg-Essen.

Applicants must show aptitude for participation in academic self-administration.

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

Teaching requirements currently are four hours of teaching during the first, and five hours of teaching during the second employment stage of the Junior Professorship. Employment is contingent on the presentation of the corresponding requirements for temporary civil service. The duration of employment complies with § 39 Sect. 5 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.

Applications with the usual documents (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 reference to its relevance for the University of Duisburg-Essen, a list of successful external grant applications, a list of courses taught and a teaching philosophy, an enumeration of experience in academic self-administration) should be sent by the 11<sup>th</sup> of November, 2018 at the latest to the Dean of the Faculty of Engineering:

**Dekan der Fakultät für Ingenieurwissenschaften  
der Universität Duisburg-Essen  
Herrn Prof. Dr.-Ing. Dieter Schramm  
Forsthausweg 2  
47057 Duisburg  
Germany  
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Further information on the University of Duisburg-Essen and the Faculty of Engineering can be found under:

<https://www.uni-due.de/iw/en>