

*We are one of the youngest universities in Germany and think in terms of possibilities, not limitations. In the heart of the Ruhr Area, we develop ideas of the future at our 11 faculties. We are strong in research and teaching, in living diversity, as well as in supporting potential. We are highly committed to an educational equality that has earned its name.*

The University Duisburg-Essen invites applications for the following academic position:

## **PhD Position**

Salary Scale TV-L EG 13.

The position is located in the Department of Civil Engineering, Institute of Structural Analysis.

### **Your tasks:**

Participation in research activities in the field of numerical structural analysis / computer simulation. Current research topics of the institute are related to the development of non-classical discretization techniques for the simulation of wave propagation problems and damage and fracture phenomena at multiple scales, to modelling multi-physical processes and shell structures. We are also interested in the development and application of machine learning algorithms for the mechanical problems described above.

Participation in teaching activities such as preparation and presentation of tutorial classes. Administrative tasks.

Opportunities for further research qualification will be provided.

### **Your profile:**

- Academic degree corresponding to 10 semester duration (Master degree, "Diplom" or equivalent) in an engineering discipline or in science (preferably Civil Engineering or Computational Mechanics)
- Thorough knowledge of numerical methods is desirable. A mathematical predisposition and interest in programming are an asset.
- Commitment towards students and an interest in modern teaching methods.
- An independent, team-oriented work approach.
- Good communication skills in German (ability to teach in German).
- Very good communication skills in both written and spoken English.

**Starting date:** as soon as possible

**Term of contract:** 36 months

**Working time:** full time

**Application deadline:** 09.06.2022

The University of Duisburg-Essen aims to increase the diversity of its members (see <http://www.uni-due.de/diversity>). It also aims to increase the number of women among its academic staff and therefore encourages women with pertinent qualifications to apply. Women

with equal qualifications will be preferred in accordance with state equality laws. Applications of qualified disabled persons in the legal sense of § 2 para. 3 SGB IX are also welcome.

Applications should be submitted to: Prof. Dr.-Ing. Carolin Birk, Universität Duisburg-Essen, Fakultät für Ingenieurwissenschaften, Abteilung Bauwissenschaften, 45117 Essen.  
Phone: 0049/201-183 2667, Email: carolin.birk@uni-due.de.

For further informations:

<http://www.uni-due.de/statik/en>

[www.uni-due.de](http://www.uni-due.de)

