

We are a young, innovative university 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.

The **University Duisburg-Essen** is seeking at the Campus Essen in the Faculty of Mathematics, in the field of infinite-dimensional optimization a

Scientific Researcher (f/m/d) (Salary Classification 13 TV-L, 75 %)

The working group Infinite-dimensional Optimization, headed by Prof. Antoine Laurain, is part of the Optimization group in the Faculty of Mathematics. The Faculty of Mathematics consists of 29 research groups, making it one of Germany's largest mathematics faculties.

Your main tasks:

- You will carry out research tasks in the working group (AG) Infinite-dimensional Optimization.
- You will participate in the AEI-DFG research project FLEXION: "Design of FLEXible materials and structures via shape and topology optimizatION."
- You will handle administrative tasks, such as installing scientific software, maintaining the research group's website, and performing administrative duties.

Your profile:

- A completed university degree in mathematics with a minimum standard study period of 8 semesters.
- Academic knowledge in at least two of the following areas: partial differential equations, numerical mathematics, optimal control, optimization, calculus of variations.
- Experience in numerical programming with Python, C/C++, Matlab, or similar environments.

Within the scope of the activity, opportunities for further scientific qualification are offered.

We offer you:

- a varied, versatile field of activity in a research-intensive environment with opportunities for international exchange
- a working environment with respectful, appreciative cooperation
- a pleasant working atmosphere in a dynamic team
- the opportunity to do a doctorate with numerous offers of support
- family friendliness through childcare facilities for your children
- advice on family care responsibilities
- a wide range of further education and training opportunities, individual induction training
- · very good public transport connections and free parking spaces
- attractive sports and health facilities (university sports)
- the possibility of working from home

Expected start date of position	at the earliest possible date
Contract period	36 months
Working schedule	75 percent of full-time employment
Application deadline	16.04.2025

Please submit your application with the usual documents quoting reference 164-25 to Prof. Dr. Antoine Laurain, Universität Duisburg- Essen, Faculty of Mathematics, 45117 Essen, Phone +49(0)201/183-6382, E-Mail <u>antoine.laurain@uni-due.de</u>.

Information about the faculty can be found at: https://www.uni-due.de/mathematik/ag_laurain/ag_laurain.php

The University of Duisburg-Essen aims to promote the diversity of its members (see <u>http://www.uni-due.de/diversity</u>).

UDE strives to increase the proportion of women among its academic staff and therefore encourages women with pertinent qualifications to apply. According to the NRW State Equal Opportunities Act, women will be considered preferentially if they have equal qualifications. Applications from qualified disabled persons in the legal sense of § 2 Abs. 3 SGB IX are also welcome.

