



The Department of Mathematics at TU Dortmund University is offering the following position (starting at the earliest possible date):

## Professorship (W1) Hardware-oriented and physics-conforming numerics with application to fluid dynamics

### Our profile

Comprising 17 departments in the natural and engineering sciences as well as the humanities and social sciences, TU Dortmund University is a dynamic university with a strong profile in research, teaching, promotion of young scientists and transfer.

### Profile of the professorship

In research, you represent the field of computational mathematics with particular focus on both hardware-oriented and physics-conforming numerical methods with applications to flow processes. Your (inter-)nationally visible research links hardware-oriented and physics-conforming approaches together and contributes to their further development. In your capacity as an assistant professor, you participate in research networks and cooperations within and outside TU Dortmund University. You are willing to acquire third-party funds and demonstrate the corresponding potential. You are committed to promoting early career researchers and participate appropriately in the teaching activities of the department.

The appointment is initially for a period of three years as a temporary civil servant. In the course of the third year, this status will be reviewed and may be extended for a further three years depending on performance. The teaching load is four hours per week in each of the first three years. In the case of a positive review, it will increase to five hours per week in each of the last three years.

### Your qualifications

You have obtained a doctorate with above-average success and have a relevant research profile in the field of the professorship. In addition, you can demonstrate research experience in at least one of the areas of physics-conforming finite element discretizations or hardware-oriented solution techniques for FEM simulation software with application to flow processes through international publications in recognized peer-reviewed venues. Experience in obtaining competitively awarded external funding and participation in research projects are desirable. Additionally, you will have the potential for teaching excellence, you are willing to teach courses in German three years after your appointment at the latest and you can convincingly demonstrate your commitment to teaching. Social and leadership skills and the willingness to participate in academic self-administration will complete your profile. Moreover, the recruitment requirements in Section 36 of the North Rhine-Westphalia Higher Education Act (*Gesetz über die Hochschulen des Landes Nordrhein-Westfalen, HG NRW*) apply.

### Attractive environment

We offer an excellent academic environment and attractive cooperation opportunities with renowned international, national, and regional partners. The metropolitan Ruhr Area with the University Alliance Ruhr (UA Ruhr) guarantees short distances to a diversity of partners from science and industry. With our Dual Career Service, we support your partner in finding professional opportunities in the region, if desired. We will be happy to provide information about housing and living in Dortmund and help you find childcare options. If you are coming to us from abroad, our Welcome Service will support you upon your arrival in Germany.

### Diversity welcome

A central goal of TU Dortmund University is to promote diversity and equal opportunities. We strive to significantly increase the percentage of women in research and teaching and therefore welcome applications from female academics. We give preference to severely disabled applicants if their qualifications meet the requirements. We support the compatibility of family and career and promote gender equality in academia and research.

### Your application

If you are interested in the position, please submit your application by 29.05.2024 via our application portal.

Details on the application process and the preparation of application documents can be found here:

<https://berufung.tu-dortmund.de/en/application>

Questions will be answered by the Dean of the Department of Mathematics,

Professor Dr. Stefan Turek  
tel: +49 231/755-3050 or  
[dekan@math.tu-dortmund.de](mailto:dekan@math.tu-dortmund.de)

Further information about the Department of Mathematics can be found at [www.mathematik.tu-dortmund.de](http://www.mathematik.tu-dortmund.de)

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