



The Department of Chemistry and Chemical Biology at TU Dortmund University is offering the following position (starting at the earliest opportunity):

## Professorship (W2) Artificial Intelligence in Chemistry and Chemical Biology

### 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.

The Department of Chemistry and Chemical Biology has a strong and long-standing profile in research at the interface of chemistry and biology and is a central part of a tightly connected network of local research institutions with an open and collaborative scientific culture. This includes the newly established Dortmund Life Science Center (DOLCE), the Department of Biochemical and Chemical Engineering, the Department of Statistics, as well as the Max-Planck Institute of Molecular Physiology, the BioMedizinZentrum (BMZ), and the Leibniz-Institutes for Analytical Sciences (ISAS) and Working Environment and Human Factors (IfADo). The University Alliance Ruhr and several larger biomedical and chemical research initiatives such as the Research Center “One Health Ruhr – from Molecules to Systems” or the Cluster of Excellence RESOLV further integrate the Department into the regional science landscape.

### Profile of the professorship

You represent an internationally visible research approach in the field of machine learning (ML) and/or artificial intelligence (AI) in the area of chemistry and chemical biology. Your forward-looking and innovative research focuses, for example, on the prediction of molecular properties and/or interactions, the AI/ML-supported design of synthesis strategies for active substances, synthetic biological systems or materials, or the development of novel methods and applications in the field of AI/ML-supported visualization and characterization of (bio-)macromolecular complexes and their dynamics, or generative molecular design. Moreover, you are willing to participate in research networks and collaborations within and outside TU Dortmund University. You are committed to acquiring third-party funding and to promoting early career researchers. You are expected to be willing to participate appropriately in the teaching activities of the department in both English and – in the medium term – German, especially in the areas of cheminformatics, statistics and data science.

### Your qualifications

You will have obtained a doctorate with outstanding success and have acquired a post-doctoral lecture qualification (*Habilitation*) or an equivalent qualification. You will have demonstrated your independent research excellence in the field of AI- and/or ML-based chemistry or chemical biology through outstanding scientific achievements, in particular by continuous publication in internationally recognized and relevant peer-reviewed journals. You will have experience in obtaining third-party funding. Additionally, you will have the potential for teaching excellence. Social and leadership skills and the willingness to participate in academic self-administration will complete your profile. Moreover, the recruitment requirements in Sections 36 and 37 of the North Rhine-Westphalia Higher Education Act (*Gesetz über die Hochschulen des Landes Nordrhein-Westfalen*, HG) 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 send your application including the provided application form, CV, list of publications, lectures, teaching activities and acquired third-party funding, a research concept of max. 1 page and three key publications, as a single pdf file in English, via e-mail by 21.12.2022 to:  
**dekan.ccb@tu-dortmund.de**

The application form and further details on the application process can be found at:  
**berufung.tu-dortmund.de/en/application**

Questions will be answered by the Dean of the Department of Chemistry and Chemical Biology,  
**University Professor Dr. Stefan M. Kast,**  
**Tel: +49 231/755-3730 or**  
**dekan.ccb@tu-dortmund.de**

Further information about the Department of Chemistry and Chemical Biology can be found at  
**ccb.tu-dortmund.de/en**