



The Department of Physics at TU Dortmund University offers the following position (starting at the earliest opportunity):

## Professorship (W3) for Experimental Physics/Medical Physics with the focus on physics of medical diagnostics of cellular systems

### Our profile

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

The Department of Physics combines excellent research in the focus areas of condensed matter physics, particle physics and medical physics with a modern and future-oriented teaching concept. It maintains national and international networks in both research and teaching and is successful in attracting third-party funding.

### Profile of the professorship

You represent the field of medical physics, further develop this at a top international level and establish links between physics, the life sciences and medicine with your experimental basic research. Your research allows the development of innovative physical methods for medical diagnostics, such as the characterization of living systems by measuring their mechanical, optical and electrical properties. The potential of the physical approach for basic medical research in the field of new diagnostic methods must be clearly identifiable. The focus here is exclusively on the scale from cells to cell culture assemblies (e.g. organoids). Possible techniques are for instance optomechanical, electrophysiological or spectroscopic approaches that can be applied to multicellular systems.

You participate in interdisciplinary research networks and cooperations within and outside TU Dortmund University. Your research aims should broaden existing research activities in medical physics at TU Dortmund University, also regarding the *Dortmund Life Science Center (DOLCE)* and already existing and emerging initiatives in North Rhine-Westphalia concerning the topic of cancer research (*CANTAR* etc.).

Beyond this, you are committed to promoting young scientists. You are responsible for the subject of medical physics in teaching and actively take part in the further development of the study programme in medical physics (Bachelor and Master).

### Your qualifications

You have obtained a doctorate with above-average success and have acquired a post-doctoral lecture qualification (Habilitation) or an equivalent qualification. You have demonstrated your research excellence in the field of the professorship through relevant continuous international publications in recognized peer-reviewed venues, especially in the last years, and have successfully and independently acquired competitive third-party funding.

Established national and/or international cooperations are expected. Additionally, you have the potential for teaching excellence. Social and leadership skills and the willingness to participate in academic self-administration complete your profile. Moreover, the recruitment requirements of 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 accompany your partner in the professional orientation 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 with the usual documents (curriculum vitae, list of publications and talks, list of acquired third-party funding, list of courses, transcripts, if applicable details about necessary family care times) as well as a concise overview (2 pages) of your research interests and objectives by **10.05.2023** via our application portal.

Details on the application process and the preparation of application documents can be found here: [berufung.tu-dortmund.de/en/application](https://berufung.tu-dortmund.de/en/application)

Questions will be answered by the Dean of the Department of Physics, University Professor Dr. Kevin Kröninger, Tel: **+49 231 755-3539** or [dekanat.physik@tu-dortmund.de](mailto:dekanat.physik@tu-dortmund.de)

Further information about the Department of Physics can be found at [physik.tu-dortmund.de/en/](https://physik.tu-dortmund.de/en/)

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