



With more than 6,300 employees in research, teaching and administration and its unique profile, TU Dortmund University shapes prospects for the future: The cooperation between engineering and natural sciences as well as social and cultural studies promotes both technological innovations and progress in knowledge and methodology. And it is not only the more than 32,500 students who benefit from that.

Postdoctoral Position (m/f/d, E13 TV-L)

The Experimental Particle Physics without Collider group at TU Dortmund University, Germany invites applications for a full time Postdoc position in the group of Prof. Dr. J. K. Vogel. The focus of this position is the search for dark matter/axions and x-ray optics technology. The position is limited to 2 years (extension may be possible). The position will start Sept 1, 2025 or at the earliest possible date. Payment according to public service's wage agreement TV-L E13. An employment in or a reduction to part-time is generally possible.

YOUR TASKS:

- Working on a research topic closely related to axion and dark matter searches, e.g. within the frame of the International Axion Observatory (IAXO) to be built at DESY
- Leading role in setting up an x-ray reflectometry laboratory at TU Dortmund to characterize cutting-edge x-ray mirrors
- Contributions to advanced raytracing simulations of x-ray optics for dark matter searches and other applications

WHAT WE OFFER:

- Supporting the group's teaching efforts (4 hrs/week)
- You will be embedded in a high-profile research environment, including international collaborations.
- You will benefit from interaction opportunities with several groups within the Particle Physics groups and others in the faculty of Physics.
- You are provided with funding for visiting international conferences.
- You will benefit from personal development opportunities by a broad spectrum of transferable skills offered with the Faculty of Physics.

YOUR PROFILE:

- You hold a university degree with doctorate in physics, preferably related to particle physics or astroparticle physics.
- You are committed to advancing the field of dark matter searches.
- You have experience in programming (C++, Python, IDL, or similar) and data analysis
- Desirable is knowledge of working principle of x-ray optics and detector technology

The TU Dortmund University promotes diversity and equal opportunities. Convince us with your personality and expertise.

Applications from women will be given preferential treatment in accordance with the legal regulations.

It is pointed out that the application of suitable severely disabled persons is desired.

For further information please contact:

Prof. Dr. Julia K. Vogel (julia.vogel@tu-dortmund.de)

Please send the complete application including a CV, a publication list, and a list of potential people who are prepared to provide a letter of recommendation to the following address by 11.08.2025 with the Reference number w60-25.

Technische Universität Dortmund
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