technische universität
dortmund

Dortmund University of Technology is a dynamic, research-oriented university with 17 faculties in the natural sciences, engineering, and the social and cultural sciences. On our international campus, approximately 6,700 employees work every day to address pressing issues of the present and the future. Openness and diversity characterize not only our collaboration in research and teaching, but also in technical and administrative areas.

Research Assistant Position (PhD) (m/f/d) - Ref. No. w27-26

At the Faculty of Physics at TU Dortmund University, up to 10 positions for research assistants (m/f/d) are to be filled in the research groups led by Glaser, Elsässer, Kröninger, and Rhode as soon as possible, subject to funding approval. The positions are limited to a duration of three years and are intended to lead to a Ph.D. Remuneration will be paid in accordance with the collective agreement regulations under pay scale 13 TV-L. These are part-time positions ranging from 67% to 75%.

If you join us, you will become part of an active research group at the interface of astroparticle physics, particle physics, and artificial intelligence at TU Dortmund. The Dortmund groups are involved in major international projects such as the IceCube Neutrino Observatory, the Cherenkov Telescope Array Observatory (CTAO), the Pierre Auger Observatory, the Einstein Telescope, and experiments at the Large Hadron Collider. Successful applicants will actively conduct research in one or more of these experiments. Specifically, the research projects will strengthen the scientific portfolio of the DFG Collaborative Research Center 1491. We aim to deepen and expand our existing interdisciplinary collaborations between particle and astroparticle physics and data science, including machine learning and deep learning.

What we offer:

- A high-level, (inter)nationally connected research environment
- A friendly and supportive team on site
- The opportunity for further academic qualification (PhD)

What you bring to the table:

We are looking for qualified and highly motivated applicants with a master's degree or equivalent in physics or a related field, with excellent results. Good communication and writing skills in English, as well as the ability to work both independently and as part of a team, are required. Applications may also be submitted by individuals who have not yet fully completed their Master of Science degree, but please indicate your earliest possible start date.

Additionally, the following are desirable:

Good knowledge of programming (especially Python) and data analysis is an advantage, but there will be opportunities to improve those skills. Experience in the fields of high-energy astroparticle physics (cosmic rays, neutrinos, gamma rays), air shower simulation (e.g., CORSIKA), event generators (e.g., PYTHIA), and/or deep learning is a plus.

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.

If you are interested, please apply by 16.6.2026, quoting Ref. No. w27-26, with a cover letter, resume, and a transcript of grades (please indicate grading system if not evident). Please provide the names and contact information of 2–3 people who can serve as references, and indicate your earliest possible start date.

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