



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 pro-motes both technological innovations and progress in knowledge and methodology. And it is not only the more than 32,500 students who benefit from that.

Research Assistant Position (Doctoral researcher)

The Department of Physics at TU Dortmund University is looking to fill a position for a research assistant (m/f/d) in the Kröninger group (with direct cooperation with the Hiller group) as soon as possible for a fixed term of three years. The position will be part of the DFG-financed Cluster of Excellence EXC 3107 “Color meets Flavor” and is aimed at obtaining a doctorate. Remuneration will be paid in accordance with the collective agreement regulations under pay scale 13 TV-L. This is a 75% position.

The Cluster of Excellence “Color meets Flavor” (www.color-meets-flavor.de/) aims to explain the interaction of weak and strong interactions on different energy scales in order to answer fundamental questions about the structure of matter. It is jointly organized by the Universities of Bonn, Dortmund, and Siegen, as well as Forschungszentrum Jülich.

YOUR TASKS:

The successful candidate will work at the interface between experimental and theoretical particle physics. The specific research project aims to optimize global fits of effective field theory (EFT) models and to develop a suitable flexible software framework. The goal is to develop methods that can be used to make concrete predictions about which measurements in current or future experiments will have a particularly significant impact on the exclusion limits for new physics. The position involves a teaching load of 3 hours per week.

YOUR QUALIFICATION:

- A relevant master's degree in medical physics or physics, with a minimum grade of 2.0;
- English language skills at B2 level.

IDEALLY YOU BRING THIS WITH YOU:

- Experience in the field of experimental and theoretical particle physics;
- Experience in programming, e.g., Python, C++.

WE OFFER:

- A pleasant work environment within a dynamic, transregional team
- Challenging work in a research-intensive setting with opportunities for international exchange
- A wide range of opportunities for personal development
- Structured professional development programs

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. Complete applications including a cover letter, CV and certificates should be sent stating reference number **w31-26** until July 2, 2026.

Technische Universität Dortmund

AG Kröninger

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