

With more than 6,200 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 34,200 students who benefit from that.

The Faculty of Physics at TU Dortmund University invites applications for a near term position as

Research Assistant (Postdoc)

limited for a period of three years. The duration of the contract will suit the aspired qualification.

The salary follows the regulations of the collective bargaining law in salary class 13 TV-L or, if applicable, by transitional law (TVÜ-L). This is a full-time position. The position is, in principle, also appropriate for part time employment.

Profile:

The Research Assistant (Postdoc) will work for the ERC Consolidator grant Project *hyControl: Coherent optical control of multi-functional nano-scale hybrid units*. The main goal of the project is to design molecular hybrid interfaces whose spin properties can be controlled coherently with light. The project will be realized by combining spin-resolved photoemission spectroscopy (ARPES and momentum microscopy) with phase-stabilized two-photon photoemission spectroscopy. Moreover, sample characterization will be conducted at the in-house synchrotron facility DELTA (spin-ARPES beamline 5).

In order to conduct successfully the project, the candidate should:

- be an enthusiast physicist (and hold a PhD degree with excellent grade)
- have a deep knowledge in solid state physics, magnetism, surface science (especially organic adsorbates on metal surfaces), and laser physics;
- have experience in UHV surface-science methods, especially in spin-resolved ARPES and/or momentum microscopy;
- have experience in laser setups for pump-probe photoemission methods (such as two-photon photoemission);
- have experience in the supervision of students;
- have an excellent publication track record.

Responsibilities:

The candidate will supervise a team working on molecular spintronics (1-2 PhD and 2-4 Master students). She/he will guide the setting up of the experimental setup, supervise the experiments, write publications and disseminate the results at national/international conferences/workshops.

The TU Dortmund University aims to increase the percentage of women in the faculty of Physics and therefore applications from women are particularly welcome.

We explicitly note that applications of severely disabled persons are welcome.

Applications enclosing the usual material may be sent until **05.01.2018** under reference number **w71-17** to:

Technische Universität Dortmund
Fakultät Physik
Experimentelle Physik VI
Prof. Mirko Cinchetti
44221 Dortmund

For further information, please do not hesitate to contact:

Prof. Mirko Cinchetti
Tel. 0231 755-5438
E-Mail: mirko.cinchetti@tu-dortmund.de

Dortmund, 06.11.2017