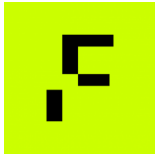


**Freie Universität Berlin****Research Assistant (postdoc) (m/f/d) (DM-701)**

City: Berlin; Starting date (earliest): At the earliest possible; Remuneration: Entgeltgruppe 13 TV-L FU; Reference number: DM-701; Closing date: 01/06/26

**Tasks****Who We Are**

The Weinelt research group studies ultrafast dynamics at solids and their surfaces initiated by ultrashort laser pulses. This includes single and collective quasiparticle dynamics to unravel signatures of non-equilibrium dynamics and phase transitions in the transient electronic structure. We develop a fundamental understanding of processes such as ultrafast demagnetization and magnetic switching by following electronic scattering, spin transport, and magnon excitation with complementary experimental methods. We have a strong background and reputation in state- selective and spin-sensitive time- and angle-resolved photoemission techniques. Our research is funded by DFG through Transregio CRC 227 “Ultrafast Spin Dynamics” (2018-2029), CRC 1772 “Heterostructures of Molecules and Two- Dimensional Materials” (2025 - 2029) and the Cluster of Excellence “Center for Chiral Electronics” (start 2026). Beyond our laboratory-based research, we are the FU Berlin partner for two joint laboratories with the Helmholtz-Zentrum Berlin, BERLUXS (Berlin Laboratory for Ultrafast X-ray Slicing) and GELEM (German- Eastern European Laboratory for Energy and Materials Research). We established new experimental infrastructure around the FemtoSpeX Slicing beamline of the Synchrotron Source BESSY II (HZB) and build currently a new endstation for THz pump/ X-ray probe experiments at BL11 of FLASH (Free Electron Laser in Hamburg). With this new state-of-the-art experimental equipment for time-resolved X-ray scattering and absorption we study state- and element specific spin dynamics.

**What You Can Expect in Your New Role**

Investigation of the electronic structure and dynamics in magnetic thin films and heterostructure using spin- and time-resolved photoelectron spectroscopy. Participation in the research projects of the working group listed under “Who we are”, in the framework of the Transregio CRC 227. You will be primarily responsible for the higher harmonics laboratory and the experiments conducted there. You will participate in conducting experiments, analyzing data, writing publications, and supervising bachelor’s, master’s and doctoral students. The group performs few experiments at large-scale facilities (FLASH, XFEL, MAXLAB), where you are encouraged to participate.

## Requirements

### Key Requirements

PhD in Physics

### Desirable

- Experimental expertise in research on surfaces or magnetic thin films and heterostructures using time-resolved spectroscopy
- Experienced in working with femtosecond lasers and amplifier systems
- Experimental experience in ultrafast spin and magnetization dynamics.
- Knowledge of surface science, layered and low-dimensional magnetic materials, spin physics and X-ray techniques
- Research expertise as documented by scientific publications and presentations at international conferences
- Excellent command of written and oral English

## Application

If you are interested in what we have to offer, then you can send your application materials to us directly. Simply submit your application exclusively via our career portal by clicking the “Apply now” button. Unfortunately, we cannot consider applications by post or by e-mail.

You can also get in touch with Mr. Weinelt ([weinelt@physik.fu-berlin.de](mailto:weinelt@physik.fu-berlin.de)).

More information at <https://stellenticket.de/204191/BUA/>

Offer visible until 01/06/26

