Freie Universität Berlin - Fachbereich Physik - Institut für Experimentalphysik

In the ERC-funded project CASTLe (https://www.castle.unifi.it) we aim at a fundamental understanding of chirality-induced spin selectivity (CISS) and investigate potential applications in quantum technology. The team consists of four PIs at Universita degli Studi di Firenze, Northwestern University, Universita degli Studi di Parma and Freie Universität Berlin together with partners at Weizmann Institute of Science and Universita degli Studi di Torino, and the Consorzio interuniversitario nazionale per la Sciencia e Technologia dei Material. The specific contribution of the Berlin group concerns electron paramagnetic resonance spectroscopy (EPR) and electrically detected magnetic resonance (EDMR) to probe spin selectivity in photoinduced electron transfer (PET) processes. The post doctoral fellow will have experience in EPR and actively develop EPR/EMDR as well on the instrumentation as the analysis side towards using CISS for molecular qbit control. The researcher will also be associated with the new Cluster of Excellence Center for Chiral Electronics (CCE, https://www.chiralelectronics.de).

Research assistant (Postdoc) (m/f/d)

full-time job limited to 31.12.2028 salary grade (Entgeltgruppe) 13 TV-L FU reference code: CASTLe 2026/2

City: Berlin; Starting date (earliest): At the earliest possible; Duration: befristet bis 31.12.2028; Remuneration: Entgeltgruppe 13 TV-L FU; Reference number: CASTLe 2026/2; Closing date: 23/12/25

Working field

Participation in the ERC Synergy Grant project CASTLe in the research line CISS for molecular qbit control.

Requirements

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University degree (Master or equivalent) in Physics or (Physical) Chemistry and doctoral degree.

Desirable:

Strong knowledge in the application of EPR spectroscopy and at preferentially two of the areas instrument development, laser-induced paramagnetic species, EDMR.

Application

Applications should be sent by e-mail, together with significant documents, indicating the **reference code, no later than December 23rd, 2025** in PDF format (preferably as one
document) to Frau Birgit Dabisch: birgit.dabisch@fu-berlin.de oder per Post an die

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Arnimallee 14
14195 Berlin (Dahlem)

With an electronic application, you acknowledge that FU Berlin saves and processes your data. FU Berlin cannot guarantee the security of your personal data if you send your application over an unencrypted connection.

Freie Universität Berlin is an equal opportunity employer.

More information at https://stellenticket.de/199826/BUA/
Offer visible until 23/12/25