Faculty of Physics

The Institute of Applied Physics is offering a position in the Chair of Experimental Physics / Photophysics (Prof. Dr. phil. II habil. Lukas M. Eng) for the Collaborative Research Center 1143 „Correlated Magnetism: From Frustration to Topology“ as

Research Associate / PhD Student
(subject to personal qualification, employees are remunerated according to salary group E13 TV-L)

in the area of “Advanced Scanning Force Microscopy of topological solid state phenomena” starting at the earliest possible date, the position entails 75 % of the full-time weekly hours and is limited until December 31, 2022 with the option for extension, subject to availability of resources. The period of employment is governed by Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz-WissZeitVG). The position offers the chance to obtain a further academic qualification.

Tasks: The successful candidate will be responsible for the microscopic investigation of solid-state phenomena (magnetic, ferroelectric, multiferroic, etc.) in topological materials as well as related compounds, using different scanning probe methods [including magnetic force microscopy (MFM), Kelvin probe force microscopy (KPFM), piezo-response force microscopy (PFM), both for imaging and spectroscopy]. The duties and responsibilities cover work in a clean-room environment, using cryogenic liquids (LN2 and LHe), operating ultra-high vacuum equipment, and applying various laser-light sources. The subject allows the candidate to become scientifically competitive internationally through peer-reviewed publications and conference contributions.

Requirements: Very good university degree (Master, diploma, or equivalent) in physics; experience and understanding in the fields of magnetism or ferroelectricity, and scanning force microscopy; excellent interpersonal and communication skills; an independent, target- and solution-driven work attitude; fluent English both oral and written.

Applications from women are particularly welcome. The same applies to people with disabilities.

Please submit your complete applications (including cover letter, CV, scientific achievements, publication list, a summary of the master thesis, certificates, names of two referees, etc.) by September 16, 2021 (stamped arrival date of the university central mail service applies) preferably via the TU Dresden SecureMail Portal https://securemail.tu-dresden.de by sending it as a single pdf-document to by mail to peter.milde@tu-dresden.de or by mail to: TU Dresden, Fakultät Mathematik und Naturwissenschaften, Fachrichtung Physik, Institut für Angewandte Physik, Professur für Experimentalphysik/Photophysik, z. Hd. Herrn Dr. P. Milde, Helmholtzstr. 10, 01069 Dresden, Germany. Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

Reference to data protection: Your data protection rights, the purpose for which your data will be processed, as well as further information about data protection is available to you on the website: https://tu-dresden.de/karriere/datenschutzhinweis