Faculty of Physics

At the Institute of Applied Physics the Chair of Topological Photonics (Prof. Alexey Chernikov) is offering, subject to the availability of resources, a position as

Research Associate
(subject to personal qualification employees are remunerated according to salary group E 13 TV-L)

starting November 1, 2021 and is initially limited for three years. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). It entails 75% of the fulltime weekly hours. The position offers the chance to obtain further academic qualification (e.g. PhD), which is highly recommended.

The research activities of the Chair of Ultrafast Microscopy and Photonics concentrate on many-particle effects and interaction with light in solid matter for basic research and applications in future technologies. They take place at the TU Dresden as part of the Cluster of Excellence “Complexity and Topology in Quantum Matter (ct.qmat)” and are based at the Dresden Integrated Center for Applied Physics and Photonic Materials (IAPP), one of the world’s leading research institutions in the field of optoelectronics and novel semiconductors. We offer you a varied and demanding employment with an excellent working atmosphere in a highly motivated, international team.

Tasks: Research on electronic many-particle states in two-dimensional materials: spectroscopic investigations of two-dimensional semiconductor systems, measurements and analysis of electronic correlations using spatially-, spectrally- and time-resolved microscopy, fabrication and processing of low-dimensional optoelectronic devices. The scientific work further includes collaborations with national and international research partners as well as communication of the results in peer reviewed journals and at international conferences.

Requirements: university degree (master or comparable) in physics; interest in basic and application-related research; high self-motivation; experimental skills in optics and material preparation; familiarity with the broader field of low-dimensional van der Waals materials; ready-to-use and up-to-date knowledge of spectroscopy and microscopy; experience with strain engineering and hybrid heterostructures; excellent command of English language.

Applications from women are particularly welcome. The same applies to people with disabilities. Please submit your comprehensive application including the usual documents by October 4, 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 angelika.wolf@tu-dresden.de or to: TU Dresden, Fakultät Physik, Institut für Angewandte Physik, Professur für Topologische Photonik, z. Hd. Frau Dr. Angelika Wolf, Helmholtzstr. 10, 01069 Dresden. 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