Technische Universität Dresden (TUD), as a University of Excellence, is one of the leading and most dynamic research institutions in the country. Founded in 1828, today it is a globally oriented, regionally anchored top university as it focuses on the grand challenges of the 21st century. It develops innovative solutions for the world’s most pressing issues. In research and academic programs, the university unites the natural and engineering sciences with the humanities, social sciences and medicine. This wide range of disciplines is a special feature, facilitating interdisciplinarity and transfer of science to society. As a modern employer, it offers attractive working conditions to all employees in teaching, research, technology and administration. The goal is to promote and develop their individual abilities while empowering everyone to reach their full potential. TUD embodies a university culture that is characterized by cosmopolitanism, mutual appreciation, thriving innovation and active participation. For TUD diversity is an essential feature and a quality criterion of an excellent university. Accordingly, we welcome all applicants who would like to commit themselves, their achievements and productivity to the success of the whole institution.

The Collaborative Research Center (SFB) 1143 "Correlated Magnetism: From Frustration To Topology" invites applications, subject to the availability of resources, for 14 positions as

**Research Associate/ PhD student (m/f/x)**

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

which entail 50% - 75% of the fulltime weekly hours. The positions are available from **January 1, 2023** fixed-term for a duration of 3 years. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). The positions aim at obtaining further academic qualification (e.g. PhD).

**Tasks:** The SFB is devoted to the investigation of materials and models with strong electronic correlations, focusing on frustrated magnetism and topological states of matter. Positions are available in the fields: Experimental Condensed Matter Physics (6 positions), Theoretical Condensed Matter Physics (6 positions), Inorganic Chemistry (2 positions).

Scientific tasks within the SFB encompass synthesis of novel materials, crystal growth, measurements of thermodynamic and transport properties, also under extreme conditions, neutron and electron spectroscopy, scanning probe microscopy and spectroscopy, nuclear magnetic resonance measurements, numerical simulations of quantum spin systems, and calculations of thermodynamic and transport properties using microscopic or field-theoretic methods. We expect a close collaboration with scientific partners and the supervision of Bachelor and Master thesis projects.

**Requirements:** university degree preferentially in physics or chemistry; motivation for doing outstanding basic research both independently and in collaborations; proficiency in German or English; ideally experience with experiments or modeling of magnetic materials.

We offer dedicated mentoring in an active scientific environment with excellent infrastructure.

Further information concerning the SFB and the advertised positions are available on the web via https://tu-dresden.de/mn/physik/sfb1143/der-sfb/stellenangebote.

TUD strives to employ more women in academia and research. We therefore expressly encourage women to apply. The University is a certified family-friendly university and offers a Dual Career Service. We welcome applications from candidates with disabilities. If multiple candidates prove to be equally qualified, those with disabilities or with equivalent status pursuant to the German Social Code IX (SGB IX) will receive priority for employment.
Please send your detailed application documents by **November 24, 2022** (stamped arrival date of the university central mail service applies) preferentially via the SecureMail portal of the TU Dresden [https://securemail.tu-dresden.de](https://securemail.tu-dresden.de) as a single PDF document to sfb1143@tu-dresden.de or to: TU Dresden, DFG-Sonderforschungsbereich (SFB) 1143, Herrn Prof. Dr. Matthias Vojta, 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](https://tu-dresden.de/karriere/datenschutzhinweis).