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.

At the **Faculty of Physics, Institute of Theoretical Physics,** the **Junior Research Group "Quantum Critical Matter"** offers a position as

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

starting at the **next possible date.** The position comprises 50% to 100% of the fulltime weekly hours. The position is limited for 2 years with the possibility of an extension to 3 years (subject to resources being available). The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz-WissZeitVG). The position offers the chance to obtain further academic qualification. Balancing family and career is an important issue. The post is generally suitable for candidates seeking part-time employment. Please indicate your request in your application.

Tasks: The Junior Research Group "Quantum Critical Matter" studies novel phases and phase transitions in quantum many-body systems. The group is part of the DFG-funded Collaborative Research Center 1143 "Correlated Magnetism: From Frustration to Topology" and the Würzburg-Dresden Cluster of Excellence "Complexity and Topology in Quantum Matter". Possible tasks for this position include the investigation of exotic quantum phases in frustrated magnets, the theoretical description of quantum critical matter, as well as the development of predictions for experimental and numerical tests, using numerical or analytical many-body techniques.

Requirements: very good university degree and – if applicable – PhD degree, preferably in physics or related areas; interest in problems of theoretical condensed matter; willingness to collaborate with experimental and numerical groups.

More information on the Junior Research Group can be found under https://tu-dresden.de/physik/qcm. If you have questions, please contact Dr. Lukas Janssen via phone +49 351 46336111 or email lukas.janssen@tu-dresden.de.

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 submit your comprehensive application including the usual documents by **December 1, 2022** (stamped arrival date of the university central mail service applies) to: **TU Dresden, Fakultät Physik, Institut für Theoretische Physik, Nachwuchsforschungsgruppe „Quantum Critical Matter",**

Herrn Dr. Lukas Janssen, Helmholtzstr. 10, 01069 Dresden or via the TU Dresden SecureMail Portal https://securemail.tu-dresden.de by sending it as a single pdf-document to **lukas.janssen@tu-dresden.de**. 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.