

Technische Universität Dresden - Faculty of Chemistry and Food Chemistry, Chair of Theoretical Chemistry



TUD Dresden University of Technology, 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.

Research Associate / PhD Student (m/f/x)

At the Faculty of Chemistry and Food Chemistry, the Chair of Theoretical Chemistry offers a position as Research Associate / PhD Student (m/f/x) (subject to personal qualification employees are remunerated according to salary group E 13 TV-L) starting as soon as possible. The position comprises 65% of the full-time weekly hours and is limited to 3 years. 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 (usually PhD).

City: Dresden; Starting date (earliest): At the earliest possible; Duration: limited to 3 years; Remuneration: subject to personal qualification employees are remunerated according to salary group E 13 TV-L; Closing date: 18/06/25

Working field

The successful candidate will work in a team developing metal-free magnetism in graphene-related materials and organic 2-dimensional crystals by means of theoretical materials science. A wide range of quantum theoretical methods shall be employed. A solid background in quantum mechanics and programming skills are prerequisite for this position, as is the readiness to learn and to apply new methods. For an initial overview of the research, we invite the applicant to read a recent overview article at <https://dx.doi.org/10.1021/acs.accounts.4c00557>. This project is funded by Deutsche Forschungsgemeinschaft within the Reinhart-Koselleck programme for innovative high risk-high gain research.

Requirements

university degree in chemistry or physics and profound knowledge in computational and theoretical physics/chemistry. Capability of team work is essential. Skills in materials

chemistry, magnetism, theoretical chemistry, high-performance computing, and programming are beneficial.

What we offer

We offer a position with a competitive salary in one of Germany's most attractive research environments. TUD is one of eleven German Universities of Excellence and provides outstanding working, research, and networking possibilities. The position will be in the group of Prof. Thomas Heine at the Chair of Theoretical Chemistry where 40 researchers from 9 nations work interdisciplinary in the fields of computational materials science, theoretical and computational chemistry/physics and physics of low-dimensional materials. It maintains strong ties with the local experimental groups of TUD and the institutes of the DRESDEN-concept environment. The chair hosts its own computer cluster and has full access to the high-performance computing infrastructure at ZIH Dresden, one of Germany's leading HPC centers. Dresden, the capital of the State of Saxony, is a city with a beautiful historical city center and offers a high standard of living with high ratings in housing, safety, and healthcare.

Application

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 detailed application with the usual documents by June 18, 2025 (stamped arrival date of the university central mail service or the time stamp on the email server of TUD applies), preferably via the TUD SecureMail Portal <https://securemail.tu-dresden.de> by sending it as a single pdf file to antje.voelkel@tu-dresden.de or to: TU Dresden, Professur für Theoretische Chemie, Herrn Prof. Thomas Heine, 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>.

More information at <https://stellenticket.de/194948/TUBS/>
Offer visible until 18/06/25

