

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.

At the **Faculty of Chemistry and Food Chemistry**, the **Chair of Molecular Functional Materials** offers within the Collaborative Research Center 1415 (CRC 1415, Chemistry of Synthetic Two-Dimensional Materials) 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 **January 1, 2025**. The position comprises 50% of the full-time weekly hours and is limited to 3 years within the CRC 1415 project **"2D Networks and heterojunctions with controllable morphology from nanosheet inks" (A11)**. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). The position aims at obtaining further academic qualification (usually PhD).

Tasks: Production of nanomaterial inks utilizing, adapting, and optimizing existing protocols for the exfoliation of suitable layered crystals; further development and optimization of a deposition process at a liquid/liquid interface and subsequent transfer onto substrates; spectroscopic investigations of fabricated films using different methods, such as atomic force microscopy, scanning electron microscopy, Raman spectroscopy, etc.; organizational tasks within the DFG project.

Requirements: university degree (M.Sc. or equivalent) in chemistry, physics, nanomaterial sciences, engineering sciences, or similar; basic understanding of colloidal chemistry and electrochemistry; good scripting and programming skills (Python); very good interpersonal and communication skills; in particular, the ability to effectively work in collaborative research efforts; an independent, target- and solution-driven work attitude; inter- and multidisciplinary thinking; strong motivation; fluency in English - written and oral.

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 (**in English only**) including motivation letter, CV, copy of degree certificates and quoting the **reference "w24-276"** by **August, 31, 2024** (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 kevin.synnatschke@tu-dresden.de or to: **TU Dresden, Fakultät Chemie und Lebensmittelchemie, Professur für Molekulare Funktionsmaterialien, Herrn Dr. Kevin Synnatschke, 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>.