## Technische Universität Dresden - Faculty of Chemistry and Food Chemistry, Chair of Inorganic Chemistry I

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 / Postdoc (m/f/x)

(subject to personal qualification employees are remunerated according to salary group E 13 TV-L) At the Faculty of Chemistry and Food Chemistry the Chair of Inorganic Chemistry I offers a full-time position as Research Associate / Postdoc (m/f/x) starting as soon as possible. The position is limited until February 28, 2029. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz – WissZeitVG).

City: Dresden; Starting date (earliest): At the earliest possible; Duration: bis 28.02.2029; Remuneration: bei Vorliegen der persönlichen Voraussetzungen E 13 TV-L; Reference number: w26-065; Closing date: 26/03/26

### Tasks

— synthesis of highly porous functionalized carbon materials: Design, optimization and execution of synthesis procedures for carbon materials with adapted surface properties for electrosorptive CO2 Capturing
— structural and physicochemical characterization of carbon materials: application of modern analytical methods e.g. XRD, Raman spectroscopy, elemental analysis, thermogravimetric analysis, physisorption measurements, zeta potential measurements
— electrochemical characterization of the samples via cyclovoltammetry, galvanostatic measurements, electrochemical impedance spectroscopy
— collaboration and exchange with project partners: Close collaboration with partner groups within the joint project, participation in project meetings, exchange stays and integration into the networks of all contributing institutions
— documentation and presentation of results: Writing of scientific publications, presentations on national and international conferences

**Requirements**

— very good university degree (M.Sc. or equivalent) in chemistry or materials sciences; Specialization in synthetic chemistry, inorganic chemistry or material chemistry.
— practical experience in the synthesis, activation and functionalization of carbon materials and in the use of analytical methods (adsorption methods)
— profound knowledge in electrochemical characterization techniques.
— excellent results on individual performance criteria (e.g., manuscript/publication resulting from Master and PhD thesis, awards) and timely completion of higher education
— strong motivation to independently conduct research and to work in interdisciplinary collaborations
— strong interest in interdisciplinary research on carbon capture techniques.
— excellent written and verbal communication skills in the English language

**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. 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, quoting the reference number w26-065 by March 26, 2026 (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 linda.petersohn@tu-dresden.de or to:
TU Dresden, Chair of Inorganic Chemistry I, Mrs. Petersohn, 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.

TUD is a founding partner in the DRESDEN-concept alliance.
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/202219/TUB/
Offer visible until 26/03/26