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 Electrochemistry offers, subject to the availability of resources, 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 is initially limited to 3 years and entails 65% of the full-time weekly hours. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschafts-zeitvertragsgesetz - WissZeitVG). The position offers the chance to obtain further academic qualification (usually PhD).

**Tasks:** The construction sector is responsible for a significant proportion of CO2 emissions worldwide. One strategy to significantly reduce these emissions is the use of carbon fibers as a substitute for steel. However, a truly sustainable use of carbon fibers is only possible if efficient recycling is established for these materials. As part of the tendered project, electrochemical recycling processes for carbon fibers shall be developed and continuously tested with regard to their sustainability. Furthermore in-situ spectroscopic methods shall be applied to analyze the quality of the fibers during the recycling process. The position is integrated into the Collaborative Research Center/Transregio 280 "Design Strategies for Material-Minimized Carbon-Reinforced Concrete Structures".

**Requirements:** university degree in chemistry, physics or related subjects, preferentially with electrochemistry and spectroscopy background. We are looking for a motivated candidate, who is interested in interdisciplinary cooperation with the fields of civil engineering and life cycle assessment.

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 (CV, cover letter explaining your motivation to apply for this position and contact information of one reference) by **July 17, 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 inez.weidinger@tu-dresden.de or to: TU Dresden, Fakultät Chemie und Lebensmittelchemie, Professur für Elektrochemie, Frau Prof. Inez Weidinger, 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.