Technische Universität Dresden

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, it is a globally oriented, regionally anchored top university, focusing on the grand challenges of the 21st century. It develops innovative solutions for the world's most pressing issues. The Cluster of Excellence "Responsible Electronics in the Climate Change Era (REC²)" addresses the key challenge posed by the ubiquitous use of electronics, which leads to an enormous resource and energy consumption and the generation of electronic waste. REC² establishes the scientific foundation for the electronics of the future, including new material platforms, component concepts, and integrated systems that enable the realization of responsible electronics in an ecologically, economically, and socially sustainable manner.

In a range of research and academic programs, REC² unites the natural and engineering sciences with the humanities, social sciences, and medicine. This wide range of disciplines is a special feature not only of the Cluster, but also of TUD, facilitating interdisciplinarity and transfer of science to society. As a modern employer, TUD 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. For TUD, diversity is an essential feature and a quality criterion of an excellent university. Accordingly, we welcome all applicants who are committed to contributing their achievements and productivity to the success of the entire institution.

The **Cluster of Excellence REC²** offers, subject to the availability of resources, at the **Faculty of Business and Economics, Chair of Business Administration, esp. Energy Economics,** a full-time 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 limited until June 30, 2029, with a possible one-year extension. The position aims at obtaining a further academic qualification (usually PhD). The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz – WissZeitVG).

Tasks:

- develop a learning curve approach for perovskite PV cells, including the building of a technology database
- optimize economically parameters such as cost and reliability within the production of perovskite PV cells
- identify market potential of perovskite PV, and assess emerging market opportunities and niche segments.
- analyze and estimate energy demand for electronics and data center operations
- exchange and collaboration with a diverse team of scientists from the REC² Cluster, in particular with those from the fields of natural sciences and engineering
- tasks in the field of research and teaching at the Chair of Energy Economics comprise the second part of the employment

Requirements:

- a university degree (Master) in in the fields of economics (industrial engineering, business administration, economics), business mathematics, electrical engineering, mechanical engineering, physics or similar, and are interested in current energy economics and energy policy issues.
- you demonstrate strong analytical and economic thinking skills and have a keen interest in the application and further development of quantitative methods. Ideally, you have already gained some initial experience in the field of learning curves or energy system modelling.

We offer: You will join a team of enthusiastic scientists who pursue their individual research agenda creatively, inspired by the cluster's innovative approach and support. Your PhD research will be fostered by the REC² philosophy to promote young researchers, which includes:

- access to state-of-the-art research of leading academic institutes
- possibility to apply for GreenRiskFunds to pursue your own high-risk/high-gain research ideas

- possibility of exchange with partner institutions in the Global South
- promotion of gender equality and a family-friendly work environment
- supervision via a dual supervision concept, including a structured PhD project plan, international exchange, and a dedicated Thesis Advisory Committee (TAC)
- mentorship via the REC^2 mentoring board

TUD strives to increase the representation of 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 are equally qualified, those with disabilities or equivalent status under the German Social Code IX (SGB IX) will receive priority for employment.

Application: Please submit your detailed application (in English only) with a motivation letter, CV, copy of degree certificate, transcript of grades (i.e. the official list of coursework including your grades), and proof of English language skills by **May 15, 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 **ee2.wiwi@tu-dresden.de** or to:

TU Dresden, Chair of Business Administration, esp. Energy Economics, Prof. Dominik Möst, 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.

REC^2 RESPONSIBLE ELECTRONICS

TUD is a founding partner in the DRESDEN-concept alliance.

DRESDEN concept

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.