



With around 17,000 students and 3,800 employees, Technische Universität Braunschweig is the largest technical university in northern Germany. It stands for strategic and performance-oriented thinking and acting, relevant research, committed teaching and the successful transfer of knowledge and technologies to business and society. We consistently advocate for family friendliness and equal opportunities.



Our research focuses on mobility, engineering for health, metrology, and the city of the future. Engineering and natural sciences form our core disciplines. These are closely networked with economics and social sciences, as well as education and the humanities.

Our campus is located in the middle of one of the most research-intensive regions in Europe. We cooperate successfully with more than 20 research institutions in our neighborhood, as well as with our international partner universities.

For the Institute of Particle Technology, we are looking for a:

## Research Associate / Postdoc / Doctoral Candidate (m/f/d) in the field of battery cell safety (full-time/part-time – fixed-term)

The position is initially limited to a period of 2 years. It is intended to serve the qualification of young scientists and offers the opportunity for a doctorate or further scientific qualification. Depending on the assignment of duties and fulfillment of personal requirements, the position is paid up to the pay grade TV-L 13 (66.67%). A later increase to a full position is not excluded. As a post-doctoral researcher, direct full-time employment is possible.

The Institute of Particle Technology investigates the production, handling, formulation, and processing of particulate solids, as well as the determination of the underlying physical and chemical relationships. An important interdisciplinary application of the research work is the subject area of battery process engineering.

Research work on battery electrode and cell production focuses on both conventional lithium-ion batteries and new materials and technologies, especially focused on process research. The focus is on investigating process influences on the final battery product and researching production processes for current and next-generation batteries on a pilot scale. Further focal points are the development of intelligent recycling processes and battery safety. Equipment for thermal, electrical, and mechanical testing is available to assess battery safety.

### Make a Difference:

- You will carry out research in the field of battery safety with a focus on thermal and mechanical safety investigations.
- You will apply for and work on research projects.
- You will create test plans and carry out tests to assess the battery safety.
- You will publish research findings and participate in national and international conferences.
- You will be involved in teaching at the University (preparation and implementation of courses as well as supervision of students' work).

## Your Qualifications:

- You have a degree (Master's, PhD, or equivalent) in the field of engineering, natural science, or comparable.
- You have very good knowledge of the German and English languages and are willing to work in an international team.
- You have experience in the field of battery process engineering.
- You are flexible, can perform under pressure, are interested in independent research, and work well in a team.
- You are aiming for a doctorate or want to pursue further scientific qualification.
- You are enthusiastic about scientific and technical topics.

## Our Benefits:

- Pay in line with the collective agreement according to EG 13 TV-L, depending on the assignment of tasks and fulfillment of personal requirements.
- A special payment at the end of the year, as well as a supplementary pension as a company pension, comparable to a company pension in the private sector.
- An interesting and varied job in a pleasant working atmosphere with a nice and motivated team.
- A workplace that is basically suitable for part-time work, but should be fully staffed, as well as flexible working and part-time models and a family-friendly university culture, awarded the "Family-friendly university" audit since 2007.
- A diverse range of continuing education and sports programs, as well as a lively campus life in an international atmosphere.

## What's more to know:

We welcome applicants of all nationalities. At the same time, we welcome the interest of disabled persons and give preference to their applications in the case of equal suitability. Please indicate this in your application and enclose proof of your disability. Furthermore, based on the Lower Saxony Equal Opportunity Act (NGG), we are working to fulfill the equality mandate and are striving to reduce underrepresentation as defined by the NGG in all areas and positions. We are therefore particularly pleased to receive applications from women.

We store personal data for the purpose of carrying out the application process. By sending us your application, you agree that your data may be stored and processed electronically for application purposes in compliance with data protection regulations. For further information on data protection, please refer to our privacy policy at <https://www.tu-braunschweig.de/datenschutzerklaerung-bewerbungen>. We do not reimburse application costs.

## Questions and Answers:

For more information, please call Carina Heck: +49 (0) 531 391-94642.

## Closing date:

If we have aroused your interest, please send your application with relevant documents in PDF format, preferably by e-mail to [c.heck@tu-braunschweig.de](mailto:c.heck@tu-braunschweig.de)

or via mail to

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