

Technische Universität Dresden (TUD), 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.

The **Boysen-TU Dresden Research Training Group** for young researchers from Engineering, Social Sciences, Arts, and Humanities, co-financed by the Friedrich and Elisabeth Boysen Foundation and the Technische Universität Dresden, is offering a doctoral scholarship¹ from **February 1, 2025**, for a maximum of 3 years, subject to available funding. The **interdisciplinary** Research Training Group, in what is its fourth generation, is conducting research on the overarching topic **Hydrogen Economy – Strategic element of a future GreenGas deal**.

A suitable person is being sought to work on **TP: H₂ Backbone: Techno-economic aspects of an environmentally friendly, competitive and secure energy supply**. The Chair of Business Administration, esp. Energy Economics at the Faculty of Business and Economics, the Chair of Hydrogen and Nuclear Energy and the Chair of Combustion Engineering and Drive Technology (second supervision) at TU Dresden are responsible for the supervision. The interdisciplinary supervision takes place in the common rooms of the Research Training Group.

Abstract: The project aims to provide a comprehensive scientific analysis of the European H₂ backbone from a technical, economic and political perspective to provide decision support for the development of an H₂ backbone. To do so, a European hydrogen market model shall be developed, considering supply, demand and infrastructure in relevant countries. The model-based analysis shall support the development of strategic perspectives and political recommendations for action.

Applicants are expected to have an above-average academic degree in economics, business engineering, business administration, business mathematics, electrical engineering, or physics, an interest in operations research and data analysis, and a high degree of willingness to engage in interdisciplinary work and research. Accepting the scholarship obliges your presence in the research group's offices in Dresden on three fixed core days per week. Participation in the college's teaching program is compulsory (24 ETCS in 3 years).

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 send your compelling application including a letter of motivation, curriculum vitae, copies of academic certificates or other relevant qualifications (language certificates, further training), and a max. 10-page sample text (e.g. final thesis, term paper, or publication) until **December 13, 2024**

¹ The amount of the scholarship is 2.300,- Euro/month.

(stamped arrival date of the university central mail service or the time stamp on the email server of TUD applies) with the **subject "TP H₂ Backbone"**, preferably via the TUD SecureMail Portal <https://securemail.tu-dresden.de> by sending it as a single pdf file to dominik.moest@tu-dresden.de or to: **TU Dresden, Boysen-TU Dresden-Graduiertenkolleg, Herrn Prof. Möst, Helmholtzstr. 10, 01069 Dresden**. 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 are available to you here: <https://tu-dresden.de/karriere/datenschutzhinweis>