Within consensual appeal procedure and based on the Berlin Model with the Fraunhofer Gesellschaft, the Faculty of Mechanical Engineering, Electrical and Energy Systems of the Brandenburg University of Technology Cottbus - Senftenberg (BTU) wants to fill at the earliest possible date the

W3 PROFESSORSHIP FOR INTEGRATED ENERGY INFRASTRUCTURES

with a research-related orientation. This professorship will be combined with a

LEADING FUNCTION IN THE FRAUNHOFER INSTITUTE FOR ENERGY INFRASTRUCTURE AND GEOTHERMAL ENERGY IEG.

In your new position you will competently represent the field of Integrated Energy Infrastructures in the master programme in Power Engineering. Research work should include basic research that meets the requirements for national funding and include applied research that is industry oriented. Courses for research-oriented study programmes are to be offered predominantly in English. If required, courses offered in the research-oriented study programmes can also be integrated into application-oriented study programmes.

The professorship is integrated into the Institute of Electrical and Thermal Energy Systems. Thus, interdisciplinary research projects are expected in cooperation with neighbouring chairs. Furthermore, the cooperation in university committees as well as in regional and supra-regional networks is expected.

The professorship is linked to a leading task in the newly founded Fraunhofer Institute for Energy Infrastructure and Geothermal Energy IEG with its main locations in Cottbus and Bochum. It includes the establishment and development as well as the scientific, technical and corporate management of the institute within the Fraunhofer model and the Fraunhofer over-all strategy.

In addition to the main topics in research and in management of research and technology development in connection with research funding bodies and research partners, you will expand the strategic link between the university and the Fraunhofer Institute. In close connection with the topics of applied research at Fraunhofer IEG, the university professorship is intended to ensure that related basic research activities carried out.

In your application you can show profound knowledge and experience in most of the following research fields:
- Quantitative modelling of the European energy system and energy infrastructures
- Regulatory Framework of sector coupling between the electricity, heat and gas sectors with-in a national context
- Technologies, regulation and market integration of renewable energies in the electricity, heat and gas (including hydrogen) sector within a national and international context
- Techno-economic evaluation and analysis of value chains for energy technologies and energy infrastructures within a national and international context
- Effects of drivers and barriers on the market diffusion of energy technologies
In your application you also can show many years of management experience in large, interdisciplinary research groups and networks of research institutes as well as experience in the strategic planning, acquisition and implementation of large-volume national and international research and development projects in various business areas. The research topics should be relevant to the DFG.

International work and teaching experience and/or experience in international projects and scientific-political networking are expected.

For further information, please contact:

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Further tasks result from § 42 Brandenburg Higher Education Act (BbgHG) in connection with § 3 BbgHG.

The prerequisites and conditions for employment can be found in §§ 41 para. 1 no. 1 - 4a as well as 4c and 43 BbgHG.

You can expect versatile projects with high practical relevance and a large scope for creativity in research. The BTU and Fraunhofer pursue a family-friendly personnel policy and offer their employees flexible working hours and support services to help them balance their professional and private lives. As a family-oriented university, the BTU offers support options for dual career couples (Dual Career Service).

The BTU and the Fraunhofer-Gesellschaft strive to increase the proportion of women in research and teaching and therefore strongly encourage applications from suitably qualified female scientists. Persons with a severe disability will be given preferential consideration if they are equally qualified.

Please note that the chosen job title also includes the third gender. The BTU and the Fraunhofer-Gesellschaft attach great importance to gender-independent professional equality.

When sending your application by unencrypted e-mail please be aware of the risks of confidentiality and integrity of your application contents. Please also refer to the data protection information on the BTU and Fraunhofer websites.

Please send your application with proof of qualifications, a tabular presentation of your professional career, a list of publications, and proof of pedagogical suitability by e-mail in a summarized pdf file with a maximum size of 7 MB by 29.01.2021:

**Dean of the Faculty for Mechanical Engineering, Electrical and Energy Systems,**  
**Postal address: BTU Cottbus - Senftenberg,**  
**Email: fakultaet3+bewerbungen@b-tu.de**

www.b-tu.de/stellenangebote