

In a joint appointment procedure, the **German Aerospace Center e. V. (DLR)** and the **Faculty of Mechanical Engineering, Electrical and Energy Systems of the Brandenburg University of Technology (BTU) Cottbus - Senftenberg** invite applications for a

University Professorship (W2) High-Temperature Heat Pumps

The successful candidate will be appointed to the BTU as soon as possible with reduced teaching obligations (2 semester hours per week) and simultaneous leave of absence (Jülich model) to the DLR at Cottbus as

Head of Department High-Temperature Heat Pumps (female/male/x)

at the DLR Institute of Low-Carbon Industrial Processes.

DLR is the Federal Republic of Germany's research centre for aeronautics and space and conducts research and development activities in the fields of aeronautics, space, energy, transport, security and digitalization. Climate, mobility and technology are changing globally. DLR uses the expertise of its 55 research institutes and facilities to develop solutions to these challenges. Our 10,000 employees share a mission – to explore Earth and space and develop technologies for a sustainable future. With 55 employees at its Cottbus and Zittau sites, the DLR Institute of Low-Carbon Industrial Processes conducts research into the decarbonization of industrial processes.

The research- in the field of low-carbon industrial heat-supply focuses on:

- Development and experimental testing of innovative cycle-processes for high-performance heat pumps. The focus is on delivery temperatures above 150 °C for processes with and without phase change of the working medium. Transcritical processes are also considered.
- Design, construction and operation of pilot and large-scale plants
- Testing of concepts for flexibilization of heat pump operation
- Integration of heat pumps into industrial processes
- Alternative concepts for supplying industrial sites with high-temperature heat.

The professorship is located at the BTU Institute of Electrical and Thermal Energy Systems, which covers the technical spectrum from energy distribution and high-voltage technology, decentralized energy systems, power electronics and propulsion technology, control technology and network control technology, integrated energy infrastructures, thermal energy management and thermal process engineering to energy economics. Furthermore, interdisciplinary collaboration with the other professorships of the faculty and the university is aspired.

We are looking for a personality who is recognized in the field of high-temperature heat pumps with several years of experience in leading larger groups. Industrial experience is desirable. Profound experience and excellent scientific achievements in several of the above-mentioned research areas are expected. In addition, experience in interdisciplinary collaborations and a strong relation to DLR programs are required.

Special emphasis is put on cooperation with industry, national and international networking, successful acquisition of third-party funding projects and technology transfer. The ability to teach courses and didactic skills complete the requirements profile for research and teaching. In teaching, participation in the courses of study in mechanical engineering and power engineering/electrical engineering as well as in other engineering courses is expected. This includes international study courses, such as power engineering.

For further information, please contact:

Prof. Dr. Uwe Riedel
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E uwe.riedel@dlr.de

A prerequisite for employment at DLR is willingness to undergo a security check in accordance with the national security check law (Sicherheitsüberprüfungsgesetz §8 ff SÜG). Further duties result from the requirements set by § 42 Brandenburgisches Hochschulgesetz (Higher Education Act of the State Brandenburg - BbgHG) in conjunction with § 3 BbgHG. Please refer to §§ 41 paragraph 1, No. 1-4a and 43 BbgHG for prerequisites and conditions of employment.

BTU and the DLR strive for increasing the proportion of women in teaching and research and especially encourage qualified female scientists to apply.

As a family-oriented University, BTU offers a Dual Career Service. Persons with a severe disability are given preferential consideration if they are equally qualified. Applications from scientists from abroad are explicitly welcome.

Please send your application with proof of qualifications, a tabular presentation of your professional career, a list of publications as well as proof of pedagogical aptitude, a list of project responsibilities as well as a presentation of the research concept by e-mail in a summarized pdf file of max. 7 MB by **24.10.2022** to:

**Dean of the Faculty of Mechanical Engineering, Electrical and Energy Systems
BTU Cottbus – Senftenberg, Postfach 101344, 03013 Cottbus**

Email: fakultaet3+bewerbungen@b-tu.de

and

**Prof. Dr. Uwe Riedel, Director of the DLR Institute of Low-Carbon Industrial Processes
German Aerospace Center, Walther-Pauer-Straße 5, 03046 Cottbus**

Email: uwe.riedel@dlr.de

When sending your application by unencrypted e-mail, please be aware of the risks of confidentiality and integrity of your application contents. Please also note the data protection information on the BTU and DLR websites. Your personal data are processed on basis of a contract between BTU and DLR according to Article 26 or 28 DSGVO, respectively.



The BTU carries the seal of quality of The German Association of University Professors and Lecturers (Deutscher Hochschulverband, in short DHV). She is thus honored for her fair and transparent negotiations on the appointment of new professors.