

The Faculty of Mechanical Engineering and Marine Technologies currently invites applications for the position of

Professor (W3) of Energy System Technology

to be appointed as of April 1st, 2027.

The professorship represents the subject area with a special focus on mechanical engineering applications in research and teaching at the faculty. In the degree programmes Mechanical Engineering, Industrial Engineering, Sustainable Maritime Engineering and Computational Science and Engineering, both basic and specialised content of the subject area is taught. Lectures are to be held in German and English.

We are looking for a scientifically proven person who will contribute to the further development of methods and models in the field of data-driven analysis and optimization of sustainable energy technologies through innovative research. The research should focus on solving complex mechanical engineering and process engineering challenges using modelling and simulation. The focus will be on researching new approaches in at least two of the following areas:

- Large-scale process and plant engineering for energy conversion and storage
- Processes for the production of climate-neutral materials, energy sources and products
- Plant and process modelling, in particular using machine learning methods
- Data-driven methods for optimization and operation (incl. maintenance) of transient plants, in particular utilizing stochastic time series analysis.

In-depth cooperation with the Institutes of Piston Machines and Internal Combustion Engines, Technical Thermodynamics, Data-Driven Analysis and Design of Materials, Ocean Engineering, Fluid Mechanics, Fluid Machinery, Technical Mechanics/Dynamics, Microfluidics and Product Development as well as the willingness to co-operate scientifically with other faculties, in particular with the Interdisciplinary Faculty of the University of Rostock, and to co-operate with industrial companies are expected.

We are looking for a person who can demonstrate extensive experience in the field of appointment and is recognised for scientific achievements with international visibility. Relevant experience in third-party funded research projects at national and international level, as well as in collaboration with industrial companies is expected. Teaching aptitude is a prerequisite for appointment. Applicants are expected to describe their strategies for the further development of the subject area in research and education (see below for list of required documents).

For further inquiries, please contact:

Prof. Dr. Bert Buchholz, Chair of the Search Committee

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The employment requirements for professors are determined by §58 (1 and 2) of the State Higher Education Act (LHG M-V). According to this, appointment requires a completed university degree, a doctorate, teaching experience (§ 58 Paragraph (1) LHG M-V), and additional academic achievements, which must generally be

demonstrated through a junior professorship or a habilitation; otherwise, equivalent academic achievements (§ 58 (2) LHG M-V) are required for employment.

The professorship is to be filled according to § 61 LHG M-V as a position with civil servant status for life, or, if applicable, for 5 years. It is also possible to fill the position as a regular state employee.

Special abilities and achievements in teaching as well as in the organization of science and academic self-administration are taken into account. For this purpose, the results in teaching, the ideas for future teaching including the didactic design of courses are to be presented and the experience in scientific management is to be described. Active engagement and experience in the acquisition of third-party funds are expected.

The University of Rostock is committed to its university leadership guidelines.

Equal opportunities are an integral part of our personnel policy. The advertisement is therefore addressed to all persons regardless of their gender (* gender-neutral). Disabled applicants will be given preference if all other qualifications are essentially equal.

The University of Rostock is seeking to increase the proportion of women in academic positions and therefore strongly encourages qualified women to apply with reference to § 7 Abs. 3 of the Mecklenburg-Vorpommern Equal Opportunities Act. Women will be given priority in the case of substantially equivalent qualifications, unless reasons relating to the person of the male competitor prevail.

Applications with the usual documents (full CV, a complete list of academic and professional background, publications, teaching experience, certificates, any additional qualifications, a summary of grants and sponsored research activities and a description of future teaching and research plans) should be sent **no later than 30.09.2025** to the **University of Rostock, Dean of the Faculty Mechanical Engineering and Marine Technologies, 18051 Rostock, Germany** or by email to **dekan.msf@uni-rostock.de**. (Please send a single PDF file with max. 5MB). We would like to point out that your e-mail will be sent to us unencrypted.

The protection of your personal data is very important to us. Therefore, the data collected in the context of the application process is collected, processed and used in accordance with the relevant data protection regulations.

Unfortunately, the State of Mecklenburg-Vorpommern cannot cover application costs. Please submit only copies of your application documents, as these will not be returned after the application process has been completed.