

Research Associate - Research focus energy system technology, RWTH Aachen University, Germany.

CONTACT

SURNAME

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Providers

Chair of Technical Thermodynamics

Our profile

The Chair of Technical Thermodynamics (LTT) of the RWTH Aachen under the direction of Prof. Dr.-Ing. André Bardow deals with the analysis of thermodynamic systems on all scales: from the molecule to the complete process.

The applications are in all areas of energy and process engineering.

The LTT Energy Systems Engineering working group is a team of young scientists dedicated to the development of computational methods for the analysis, evaluation and optimization of energy systems and chemical processes. A central theme is the ecological system evaluation of technologies for the energy transition and the material use of CO₂ for polymers, chemicals and fuels.

Your profile

You have a university degree (master or equivalent) in engineering, environmental science or technical chemistry, or a comparable qualification, which has been completed with above-average success. In addition to a high degree of independence and initiative, you have good communication and team skills. In addition, you can speak German and English fluently in spoken and written. They have excellent basic thermodynamic knowledge. Ideally you will have experience in the simulation and optimization of energy and process engineering systems as well as in the ecological assessment by means of Life Cycle Assessment (LCA).

Your tasks

The material use of CO₂ is currently being discussed worldwide as a measure for climate protection. Since the activation of inert CO₂ usually requires energy, the ecological benefit must be systematically assessed. Therefore you work in a team with worldwide partners on the further development of a guideline for the ecological evaluation of the material use of CO₂. A particular focus is on the development of methods for the evaluation of chemical conversion technologies at an early stage of development. Their methods are discussed at working meetings with international experts from research, industry and politics.

In addition, a high degree of self-responsibility in the solution of project tasks belong to your activities. In addition, your cooperation includes the active design of our teaching assignment and the personal support of students.

Our range

Recruitment is in the employment relationship.

The position is to be filled on 15.05.2019 and limited to 1 year. An extension of another 3 years is planned.

A setting at a later date is possible.

This is a full time position. On request, a part-time employment can be made possible.

There is a doctoral option.

The position is rated with EG 13 TV-L.

The RWTH is certified as a family-friendly university.

We want to promote the careers of women at RWTH Aachen and are therefore looking forward to receiving applicants.

Women are given preference for equal qualifications, aptitude and professional performance, provided that they are underrepresented in the organizational unit and do not prevail in the person of a competitor. Applications of suitable disabled people are expressly desired.

candidature

Number: 26068

time: 02/28/2019

post: André Bardow

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