Technische Universität München

Lehrstuhl für Energiesysteme
TUM School of Engineering and Design
Prof. Dr.-Ing. Hartmut Spliethoff
www.epe.ed.tum.de/es

The Chair of Energy Systems seeks to fill a fulltime position at the earliest possible date as a

Research Associate / PhD student (m/f/d) in the field of industrial waste heat recovery with Organic Rankine Cycles and (reversible) high-temperature heat pumps

Your tasks: Within an ongoing EU project on waste heat utilization in energy-intensive industries, you will work on the optimization of Organic Rankine Cycles of an Organic Rankine Cycle (ORC). This includes the design in basic and detail engineering, including possible feedback effects on the overall process. The derivation of control concepts based on dynamic simulations is also an essential part of your tasks. The overriding aim of your investigations is to increase energy efficiency, optimize the condenser and integrate it flexibly into the overall process. Another focus is on the possible integration of reversible ORC / high-temperature heat pumps in industrial processes. The results of your work will be published at scientific conferences and in journals.

Your profile: You have an above-average university degree in mechanical/engineering or process engineering and some experience in dynamic process simulation. You stand out for your high-quality standards and independent, solution-orientated way of working and have in-depth knowledge of thermodynamics, plant engineering and control engineering. Do flexibility, creativity and a passion for energy technology round off your profile? Then apply for a job with us!

We offer you an interesting and challenging job with a high degree of personal responsibility and creative possibilities. The salary of the position is classified according to TV-L E13. It is a full-time position, which is planned for four years. The possibility of a PhD is given and highly encouraged. Disabled persons with similar qualifications will be given preference in the recruitment process. The university aims at increasing the share of female employees. Applications from qualified women are therefore explicitly welcomed. You can expect a team of roughly 40 scientists researching a broad range of topics on the latest technologies for a reliable and sustainable future energy supply.

Interested?
Then we look forward receiving your comprehensive application documents by e-mail by the end of January 2024 addressed to:

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