

# PhD Studentship in Electric Drivetrains (m/f/d)

25.10.2024, *Chair of Sustainable Mobile Powertrains*

The Chair of Sustainable Mobile Powertrains of the Technical University of Munich, located at Schragenhofstr. 31, 80992 Munich invites applications for a PhD studentship as a research associate in the area of electric drivetrains.

## Responsibilities:

- Development of a novel high-performance electric drivetrain for vehicle applications
- Design of the electric machines (electromagnetics, mechanical, thermal)
- Development, assembly and operation of a matching test bench system
- Prototype manufacturing and testing of electric drivetrains
- Management of the associated research project
- Supporting the teaching in electric vehicle powertrains

## Qualifications:

- Master's degree in a relevant subject, e.g. electrical or mechanical engineering, mechatronics, that meets the requirements for enrolment for the PhD degree at Technical University of Munich
- Good knowledge of the operating principles of electric drivetrains (e-machine, inverter)
- Experience in modelling, simulation and design of electrical machines
- Hands-on experience in testing of electric drivetrains is advantageous
- Independent but co-operative work habits
- Proficiency in English (written and spoken)
- Good knowledge of German beneficial

## The Role:

We offer an interesting and versatile role with a large degree of personal responsibility and freedom to design as part of a young and dynamic team at one of the leading engineering research organisations in Germany. The successful applicant will be employed as a research associate, paid in accordance with the rules of the collective bargaining agreement in the public service of the state of Bavaria (TV-L), pay bracket E13.

Disabled persons will be given preferential treatment in case of equal suitability, aptitude and professional achievement.

The Technical University of Munich is committed to increasing the percentage of female PhD students in engineering and therefore explicitly encourages females to apply for this position.

## **How to Apply:**

Please send your application including all relevant documents (CV, transcripts, references) to Lehrstuhl für Nachhaltige Mobile Antriebssysteme, z.Hd. Prof. Dr. Malte Jaensch, Schragenhofstr. 31, 80992 München, or – preferably – via E-Mail to [malte.jaensch@tum.de](mailto:malte.jaensch@tum.de)

Please refer to <https://portal.mytum.de/kompass/datenschutz/Bewerbung/> for details on how we collect your personal data in accordance with Art. 13 of the General Data Protection Regulation of the European Union (GDPR) in relation to your application for a position at the Technical University of Munich

To learn more about us, please visit: [www.mos.ed.tum.de/nma](http://www.mos.ed.tum.de/nma)