

Professorship (W3) „Rail-bound Mobility Systems “

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Stellenbeschreibung

Professorship (W3) „Rail-bound Mobility Systems “

INSTITUTE OF AUTOMOTIVE ENGINEERING | AT THE EARLIEST CONVENIENCE

The University of Stuttgart is one of the leading technically oriented universities in Germany in one of Europe's most vibrant high-tech and industrial areas. The university is a reliable employer, partner for technology transfer and is committed to the interdisciplinary integration of engineering, natural sciences, humanities, and social sciences based on the fundamentals of cutting-edge research at a disciplinary level.

The Faculty of Engineering Design, Production Engineering and Automotive Engineering has an immediate vacancy for the W3 professorship in Rail-bound Mobility Systems. The professorship will be based at the Institute of Automotive Engineering (IFS).

The professorship is to develop and represent innovative approaches in the field of rail-based mobility systems in research and teaching. In addition to the classic components and systems of rail vehicle technology, this includes in particular:

- the development of novel vehicle and operating concepts to strengthen rail-based transport,
- the application of new materials and structures, taking into account specific conditions of railbound vehicles such as fire protection, collision strength, use of space, manufacturing costs, recycling management, life cycle assessment and approval,
- a systemic consideration of user-friendliness and user orientation, e.g. by taking into account comfort, noise behavior and the requirements of demographic change,
- efficient drive and energy management for state-of-the-art vehicles and vehicle combinations,
- the development of sustainable transport concepts based on data-driven business models for mobility systems and their ecosystems, and
- ensuring operational stability and integrating predictive maintenance strategies.

Candidates are expected to have a proven track record of research in one or more of these areas, as well as leadership experience and a willingness to engage in interdisciplinary and international collaboration. This includes close cooperation with the other chairs of the Institute of Automotive Engineering Stuttgart (IFS), colleagues at the faculty and university, and external partners from research and industry.

In teaching, the professorship should represent the specialization module of rail vehicle technology in the study programs of the Joint Commission for Mechanical Engineering at the University of Stuttgart. The courses are aimed at students in the bachelor's degree programs as well as in the GKM's advanced master's degree programs, and at students of Transportation Engineering from Faculty 2.

We are searching for an individual who is distinguished by high-ranking scientific publications or patents with international visibility.

For a qualitative assessment of your academic accomplishments, we kindly ask you to submit a short description of your three most important scientific achievements, which should be no longer than one page in total. Possible successes may include, for example, those in the fields of research, teaching, science and society, knowledge and technology transfer, inventions and patents, software development or spin-offs.

The requirements for employment listed in § 47 and § 50 Baden-Württemberg university law (LHG) apply.

This professorship is funded by the Professorinnenprogramm 2030 (Female Professors Program 2030).

Written applications should be sent in electronic form no later than 22nd of June 2025 to the dean of Faculty 7: Engineering Design, Production Engineering and Automotive Engineering dekanat@f07.uni-stuttgart.de, preferably as a single PDF file. Please be aware of the risks regarding confidentiality and the integrity of your application contents when sending your application via unencrypted email. Alternatively, postal applications to Faculty 7: Engineering Design, Production Engineering and Automotive Engineering, Pfaffenwaldring 9, 70569 Stuttgart, Germany are also accepted. Please address any questions regarding the current appointment process to Univ.-Prof. Dr.-Ing. Oliver Riedel (oliver.riedel@isw.uni-stuttgart.de).

The University of Stuttgart has established a Dual Career Program to offer assistance to partners of those moving to Stuttgart: www.uni-stuttgart.de/dual-career-en.

The University of Stuttgart is an equal opportunity employer. Applications from women are strongly encouraged. Disabled persons will be given preference in case of equal qualifications.

Information on the collection of personal data in accordance with Article 13 of the GDPR can be found via the following link: www.uni-stuttgart.de/en/privacy-notice/job-application.

Anforderungsprofil & Qualifikationen

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Stellenmerkmale

Beschäftigungsart	Professuren
Beschäftigungsumfang	Vollzeit (unbefristet)
Home Office	Nein
Hochschulabschluss	Promotion
Bewerbung an	dekanat@f07.uni-stuttgart.de

Kontaktdaten

Firma/Hochschule	Universität Stuttgart
Anschrift	Seidenstrasse 36 70174 Stuttgart

Kontakt

E-Mail

Herr Prof. Dr.-Ing. Oliver Riedel

 oliver.riedel@isw.uni-stuttgart.de