

TUD Dresden University of Technology, as a University of Excellence, is one of the leading and most dynamic research institutions in the country. Founded in 1828, today it is a globally oriented, regionally anchored top university as it focuses on the grand challenges of the 21st century. It develops innovative solutions for the world's most pressing issues. In research and academic programs, the university unites the natural and engineering sciences with the humanities, social sciences and medicine. This wide range of disciplines is a special feature, facilitating interdisciplinarity and transfer of science to society. As a modern employer, it offers attractive working conditions to all employees in teaching, research, technology and administration. The goal is to promote and develop their individual abilities while empowering everyone to reach their full potential. TUD embodies a university culture that is characterized by cosmopolitanism, mutual appreciation, thriving innovation and active participation. For TUD diversity is an essential feature and a quality criterion of an excellent university. Accordingly, we welcome all applicants who would like to commit themselves, their achievements and productivity to the success of the whole institution.

At the "**Friedrich List**" **Faculty of Transport and Traffic Sciences, Institute of Railway Vehicles and Railway Technology**, the **Chair of Rail Vehicles** offers a position as

Research Associate / PhD Student (m/f/x)

(subject to personal qualification employees are remunerated according to salary group E 13 TV-L)

starting **as soon as possible**. The position is to be filled on a fixed-term basis for a period of three years, full-time, with the option of a further two-year extension, subject to the availability of resources. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). The position aims at obtaining further academic qualification (usually PhD).

Tasks:

- conduct scientific research and teaching at the Chair, with a particular focus on rail vehicle maintenance and system optimisation
- acquire and participate in national and international research projects
- publications in international peer reviewed journals and conferences
- contribute to the planning and organisation of teaching activities
- assist in the development and expansion of the Chair's laboratory equipment and facilities
- tasks of academic self-governance

Requirements:

- university degree in the field of mechanical engineering, rail vehicle engineering, civil engineering or related courses of study (minimum: Diplom-Ing. or M.Sc.)
- working knowledge of multibody and/or finite element simulation software
- expertise in the simulation of rail vehicle systems and in modelling wheel-rail contact and damage
- good command of German or English, both for teaching and for preparing research proposals and publications
- highly independent and committed way of working, solid communication skills and team spirit

TUD strives to employ more women in academia and research. We therefore expressly encourage women to apply. The University is a certified family-friendly university. We welcome applications from candidates with disabilities. If multiple candidates prove to be equally qualified, those with disabilities or with equivalent status pursuant to the German Social Code IX (SGB IX) will receive priority for employment.

Please submit your detailed application with all the relevant documents and quoting job reference number **SfzWM5**, by **March 16, 2026** (stamped arrival date of the university central mail service or the time stamp on the email server of TUD applies), preferably via the TUD SecureMail Portal <https://securemail.tu-dresden.de> by sending it as a single pdf file to schienefahrzeuge@tu-dresden.de or to:

TU Dresden, Chair of Rail Vehicles, Prof. Dr. Binbin Liu, Helmholtzstr. 10, 01069 Dresden, Germany.

Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

TUD is a founding partner in the DRESDEN-
concept alliance.

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concept



Reference to data protection: Your data protection rights, the purpose for which your data will be processed, as well as further information about data protection is available to you on the website: <https://tu-dresden.de/karriere/datenschutzhinweis>.