

Applications are invited for the position of a

## **University Professor for Structural Durability and Railway Vehicles**

at the newly created Institute of Structural Durability and Railway Technology of Graz University of Technology (TU Graz), Faculty of Mechanical Engineering and Economic Sciences. It is planned to fill this position, pursuant to Sec. 98 of the Austrian University Act 2002. The position will be based on a permanent employment contract, as defined under the terms of Austrian civil-law with Graz University of Technology.

The scope is the entire range of structural durability including all system aspects. The focus should be on railway vehicles and their components. The research areas of the already existing working group cover the structural durability (System and component life, degradation and failure behaviour, crack propagation) the development of lightweight structures, preferably in rail vehicles, the dynamic behavior of large structures (numerical and experimental) as well as modeling and numerical simulation on these topics.

The working group has large test facilities in the form of vibration test beds to validate the developed components and methods and an excellent national and international network, especially in the field of rail vehicles and their components.

Applicants should have an internationally renowned research record in the field of structural durability, preferably with experience in the field of rail vehicles and lightweight design. In addition to a sound scientific-theoretical basis, experience in the fields of constructive and experimental implementation, modelling and simulation as well as in measurement techniques and test bench technology are desirable. Applicants should have experience from industry or a similar field.

Furthermore, we expect willingness to an interdisciplinary cooperation inside and outside of TU Graz, cooperation with the economic and industrial environment, and across faculty borders within the TU Graz Field of Expertise „Sustainable Systems“.

### Required candidate profile:

- PhD-level university education relevant for the position
- excellent scientific qualification for the subject to be filled
- excellent teaching capabilities
- leadership skills
- the ability to work in a team

Good command of written and spoken German and English is required for an excellent representation of the field in teaching and on an international level. The transfer of residence to the area of Graz is required.

Graz University of Technology aims to increase the proportion of women, in particular in management and academic staff, and therefore qualified female applicants are explicitly encouraged to apply. Until a balanced ratio of men and women has been achieved at the university, preference will be given to women if applicants are equally qualified. Graz University of Technology actively promotes diversity and equal opportunities. Applicants are not to be discriminated in personnel selection procedures on the grounds of gender, ethnicity, religion or ideology, age, sexual orientation (Anti-discrimination). People with disabilities and having the relevant qualifications are expressly invited to apply.

Candidates should submit their detailed application

- using the application form sheet of TU Graz at <https://www.tugraz.at/go/professorships-vacancies/>
- presenting their scientific record in teaching and research or in industries
- displaying their planned activities in research and teaching and for the development of the institute
- presenting their list of publications (including the full texts of the five most important publications)
- copy of certificates

in a digital form at the latest by

**October 31, 2019**

(date and time of email timestamp) to the Dean of the Faculty of Mechanical Engineering and Economic Sciences, Graz University of Technology, Inffeldgasse 23/I, 8010 Graz, Austria, email address:

[dekanat.mbww@tugraz.at](mailto:dekanat.mbww@tugraz.at).

The Dean: Univ.-Prof. Dr.-Ing. Franz Heitmeir

[www.tugraz.at](http://www.tugraz.at)