

Graz University of Technology / Faculty of Civil Engineering Sciences seeks to appoint

a full professor in the field of
Railway Infrastructure Design

with appointment effective as of July 1, 2020. The successful applicant will be appointed on the basis of a permanent employment contract according to Section 98 of the Austrian Universities Act (§98 Universitätsgesetz).

The professorship of Railway Infrastructure Design concerns further development and dimensioning of the railway track system and its components. This covers superstructure as well as substructure highlighting interactions of the various components under different loading scenarios. Using existing data sources as well as the possibilities given due to digitalisation track and turnout behaviour and thus their future maintenance demand is already considered within dimensioning the components.

We are looking for a candidate with an outstanding scientific track record who is able to develop a strong and visible research programme targeting further development of the track system. The candidate's research activities should be in one or more of the fields: component testing, numerical modelling, and dimensioning of track and turnout which allows paying special attention to track stiffness. Experiences in research and development are to be demonstrated by projects within or in cooperation with railway industry and / or infrastructure managers. Further knowledge in measuring and testing techniques are desired.

The position will require the willingness to engage actively in intensive cooperation within the scientific and industrial community, especially within the newly established Research Centre Railway Systems and the Fields of Expertise Mobility & Production and Sustainable Systems of Graz University of Technology.

Next to the described qualification the requirements for employment are:

- A university education in civil engineering or traffic engineering – infrastructure
- A completed doctoral degree (PhD) in a relevant subject. The degrees must comply with Austrian accreditation standards.
- Teaching experience and very good didactics, preferably shown by a habilitation (*venia docendi*) or an equivalent scientific qualification
- Proven leadership skills

To ensure effective international representation of the field, excellent spoken and written competence in English is required. Fluency in German or the willingness to acquire it is also expected.

Relocation to live in the greater Graz area is required.

Graz University of Technology has the strategic goal of increasing the percentage of women especially in management and academic positions and, therefore, explicitly encourages qualified female candidates to apply. Until a balanced proportion of women among the staff has been reached, women having equal qualifications to other candidates will be appointed preferentially.

Graz University of Technology pro-actively strives to ensure diversity and equal opportunities. Applicants must not be disadvantaged on grounds of their gender, ethnic affiliation, religion and ideology, age or sexual orientation (anti-discrimination). People with disabilities and the respective qualifications are explicitly invited to submit their applications.

Interested applicants are requested to send a detailed application including the application form available at <https://www.tugraz.at/go/professorships-vacancies> and enclose

- a CV (including copies of certificates and diplomas) including a description of research and teaching experience to date
- an outline of planned activities in research and teaching
- list of publications (the five most important publications as pdf-files)

Please send all documents in electronic form to the Dean of the Faculty of Civil Engineering Sciences, Rechbauerstrasse 12, A-8010 Graz, e-mail: dekanat.bau@tugraz.at by

October 20, 2019

at the latest (e-mail timestamp).

Hearings for candidates in the shortlist will be held on 10th and 11th of December 2019.

The Dean: Univ.-Prof. Dipl.-Ing. Dr. techn. Gerald Zenz

www.tugraz.at