

The Faculty of Electrical and Information Engineering of Graz University of Technology seeks to appoint a full professor of

## **Fundamentals and Theory in Electrical Engineering**

at the same named Institute (Successor of Prof Bíró), starting on October 1<sup>st</sup> 2019. The position is tenured according to Section 98 of Austrian University Act (§98 UG).

For this position, we are seeking a highly qualified and scientifically well-established individual who is deeply committed to represent the field of Fundamentals and Theory in Electrical Engineering in teaching and research. Exceptional individuals who have demonstrated broad research experience in this domain are encouraged to apply.

The expertise of the applicants covers several of the following areas:

- mathematical modelling, optimization, simulation and numerics of multiphysical problems, especially in the area of electromagnetic fields, electrical circuits, networks, and systems
- development of methods and algorithms for field computation and for the solution of inverse problems
- modelling of novel materials, such as metamaterials for electrical applications.
- application of these methods to e.g. electrical machines and power systems, mechatronic devices, electronic circuits and antennas, photonics, acoustics, data transmission and electromagnetic compatibility.

Involvement in the main research areas of the Faculty and the Graz University of Technology is just as welcome as cooperation with surrounding and international universities and research institutions, such as the Silicon Austria Labs research center, which is currently being established.

In the field of teaching both the fundamentals as well as the advanced areas of Fundamentals and Theory in Electrical Engineering are to be represented. The willingness to collaborate and previous experience in interdisciplinary collaboration, as well as intensive interaction with students and active participation in university affairs are expected.

Applicants must have earned a doctorate (Ph.D.) in the required engineering discipline or in a closely related field from an Austrian or from an equivalent foreign university.

Key selection criteria are:

- outstanding academic qualification, verified by a habilitation degree (venia docendi) or equivalent scientific achievements
- excellent didactic skills
- leadership skills
- gender and diversity competence
- integration in international research
- experience in teaching at university level
- ability to work in a team and willingness for intramural cooperation
- experience with successful solicitation of extramural funding sources
- experience with university or industrial cooperation

To ensure effective international representation of the subject matter in teaching and research, applicants must be fluent in written and spoken English. If the successful candidate does not have sufficient knowledge of the German language, he or she must be willing to acquire such competence. The successful candidate is expected to relocate his or her main residence to the Graz area.

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 against in personnel selection procedures on the grounds of gender, ethnicity, religion or ideology, age, sexual orientation (Anti-discrimination). People with disabilities and who have the relevant qualifications are expressly invited to apply.

Applicants are asked to forward a detailed application in electronic form (certificates and documents, curriculum vitae with a description of applicant's scientific and professional career, publication list with copies of the five most important publications, an overview of his or her recent research and teaching activities and a concept for the development of the institute in research and teaching) to:

**dekanat.etit@tugraz.at** by no later than

**October 12<sup>th</sup>, 2018**

(e-mail timestamp), attention of:

Dean of the Faculty of Electrical Engineering and Information Technology  
at Graz University of Technology  
Univ.-Prof. Dipl.-Ing. Dr.techn. Wolfgang Bösch, MBA  
Inffeldgasse 18/EG  
A-8010 Graz  
Austria.

Applicants must use the application form provided at

**<https://www.tugraz.at/go/professorships-vacancies>**

The Dean: Univ.-Prof. Dipl.-Ing. Dr.techn. Wolfgang Bösch, MBA

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