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

Power Electronics

at the Electric Drives and Machines Institute, prospectively starting on March 1, 2020. The position is tenured according to Section 98 of the Austrian University Act (§98 UG).

For this position, we are seeking a highly qualified and scientifically well-established individual who is deeply committed to representing the field of Power Electronics both in teaching and in research. Research within this internationally growing field is currently being conducted at several institutes of the Faculty of Electrical Engineering and Information Technology. The university is seeking to further expand and reinforce its existing capacities by means of this professorship. The increasing emphasis on this field within the local industry provides an excellent opportunity to advance the international position of TU Graz.

The expertise of the applicants must cover several of the following areas:
- Modeling, simulation, characterization and design of power electronic devices, systems and their integration.
- Development and application of power electronic devices (e.g., wide band gap, such as SiC, GaN).
- Reliable and smart power electronics (e.g., design for reliability).
- Power electronic systems' aspects such as stability, harmonic mitigation and efficiency.
- Power electronics applications in energy generation, transmission and distribution.
- Topologies for solid state energy conversion (e.g., multilevel).
- System integration of power electronics.
- Control of power electronic devices and systems.

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

In terms of teaching, both the fundamentals as well as areas of specialization of power electronics are to be represented. Previous experience in and the willingness to pursue interdisciplinary collaboration, as well as intensive interaction with students and an 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 equivalent foreign university.

Key selection criteria are:
- Outstanding scientific qualifications (as evidenced by a habilitation or equivalent scientific achievements)
- Experience in industrial cooperation
- Excellent didactic skills
- Qualification and suitability for developing and leading a research group
- Involvement in international research
- Expertise in teaching
- Successful experience in the acquisition of third-party funds
- Gender and diversity competencies
- Excellent team player and willing to cooperate with others
The chosen applicant should have a strong command of the English language, written and spoken, so as to effectively represent and communicate the subject matter in an international context both in the classroom and in the research field. If the candidate does not yet have sufficient knowledge of the German language, he or she must be willing to pursue and acquire said language skills.

The chosen applicant 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 will not be discriminated against in personnel selection procedures on the grounds of gender, ethnicity, religion or ideology, age, or sexual orientation (Anti-discrimination). People with disabilities who have the relevant qualifications are explicitly encouraged to apply.

Applicants are asked to forward a detailed application in electronic form (certificates and documents, curriculum vitae with a description of the 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 field of power electronics in research and teaching) using the mandatory application form available at www.etit.tugraz.at by no later than May 31, 2019 (e-mail timestamp), Attn:

Dean of the Faculty of Electrical Engineering and Information Technology
at Graz University of Technology
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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