

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 October 1, 2020. The position, under private law, comes with a fixed-term employment contract, 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 of the faculty's institutes. 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 at least two of the following areas:

- Modelling, 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.

Integrating into the research areas of the faculty and the Graz University of Technology is as welcome as cooperating with other universities and research institutions as well as with the surrounding and international industry. The environment of Graz University of Technology offers numerous opportunities for cooperation. Numerous industrial companies in the field of power electronics are located in the vicinity of Graz University of Technology and the largest investment in Europe in the production of semiconductor components is being made in the region. The research center Silicon Austria Labs located on the campus of Graz University of Technology.

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.

Additionally preferred competencies:

- Outstanding scientific qualifications (as evidenced by a habilitation degree or equivalent scientific achievements)
- Several years of work experience in the field
- Excellent didactic skills
- Qualification and suitability for developing and leading a research group
- Gender and diversity competencies

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, if applicants are equally qualified, preference will be given to women.

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, list of publications, a description of the applicant's scientific and professional career, 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 by no later than

**January 06, 2020**

(e-mail timestamp), Attn:

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Information Technology at Graz University of Technology  
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Applicants must use the application form provided at [www.etit.tugraz.at](http://www.etit.tugraz.at) and <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)