



FAKULTÄT FÜR
ELEKTROTECHNIK UND
INFORMATIONSTECHNIK

Faculty of Electrical Engineering and Information Technology

Vienna University of Technology, generally referred to as **TU Wien**, is located in the heart of Europe, a place where one can experience cultural diversity and international life. Research, teaching and learning have been conducted here in the service of progress for almost 200 years. TU Wien is amongst Europe's most successful universities of technology and, with over 30,000 students and a staff of about 4,600, is Austria's largest scientific and engineering research and education institution..

At the Institute of Electrodynamics, Microwave and Circuit Engineering
at the Faculty of Electrical Engineering and Information Technology
the position for a

full-time **indefinite-term**

University Professor for the specialist field of
“Biomedical Electronics and Systems”

with contractual employment is to be filled
as of 01. 10. 2019.

This is a professorship regulated by § 98 of the 2002 Universities Act (UG)

The Faculty of Electrical Engineering and Information Technology, one of the eight faculties at TU Wien, has an excellent international reputation and plays an active role in national and international research. The current research areas of the faculty are: Photonics, Micro- and Nanoelectronics, Telecommunications, Systems and Control Engineering as well as Energy Technology and Energy Systems. The position as professor for Biomedical Electronics and Systems has been allocated in TU Wien's development plan. The future incumbent's field of work should be Biomedical electronics and Systems, with a focus on one or more of the following:

- **Cell electronic interfaces for implanted devices**
- **Neuro- implants: active implantable medical devices**
- **Characterization and utilization of electromagnetic properties of biological materials**
- **Design of biomedical electronic circuits, low power designs**
- **New technologies for biomedical electronics**

This chair is expected to build up an interdisciplinary research group that will study and develop solutions for challenges of biomedical electronics and systems with a focus on interface technologies. This embraces signal processing of physiological signals, sensor integration, electrostimulation, pace makers. Artificial sensing organs (hearing, vision, tactile), neuro implants, label free diagnosis (single molecule level), tomography methods (single cell level).

The duties of a university professor at TU Wien include, in addition to research, teaching activities (in German and in English) in the Bachelor, Master and PhD programmes as well as collaboration in management of the institute and the faculty. A participation in the basic Bachelor courses on Electrotechnical Foundations is required as well as a participation in the interdisciplinary Master programme on Biomedical Engineering.

Profile of requirements:

- Completed doctoral or PhD studies corresponding to the deployment described from a domestic or equivalent foreign university or research institution
- The qualification for lecturing (*venia docendi*) acquired at a domestic or equivalent foreign university or an academic qualification recognised as equivalent to qualification as a university lecturer
- Publications in internationally recognised academic professional journals in the fields of work of the professorship
- Pedagogic or didactic qualification for academic teaching in the field of specialisation cited, in German and in English
- Research experience relevant to the field of specialisation with national and international reputation as well as skills in networking
- Requirement of a research and teaching strategy
- Experience abroad in the relevant field of specialisation
- Acquisition of domestic or foreign practical experience in a non-university environment
- Experience in recruitment, completion and management of research projects
- Suitability and willingness to manage a research division or a research group
- The incumbent will ideally have competence or experience in the professional promotion of young scholars and women as well as in the field of gender mainstreaming
- In case there is no adequate knowledge of German, willingness to quickly learn German is presupposed for teaching in bachelor programmes and participation in management of the institute and the faculty as well as in university bodies
- Onsite presence is expected

The faculty of Electrical Engineering and Information Technology offers outstanding working conditions in an attractive and seminal field of research. The Institute Electrodynamics, Microwave and Circuit Engineering is very active in the areas of microwave technology, Terahertz and optical circuit design and has a wide network of cooperation projects as part of EU programs and collaborative projects with Austrian industries. Cooperation with other research groups in particular in the context of such programmes is expected.

The TU Wien offers:

- Excellent working conditions in an attractive research environment
- Attractive compensation combined with a supplemental retirement pension from the employer
- Financial support of research activities in the first years (equipment endowment, etc.); support in moving to Vienna (if required)
- Dual career advice (if required): We offer partners of the university professors appointed to TU Wien various support opportunities tailored to their individual situation
- A cooperative environment in a city with an extraordinary high quality of life

Classification in the A1 category of the collective bargaining agreement for employees of universities and a minimum salary of EUR 5.005,10/month (14 times a year) is provided for. A higher salary depending on qualifications and experience is a subject of appointment negotiations.

General Information about

- the TU Wien can be found at www.tuwien.ac.at
- The Faculty of Electrical Engineering and Information Technology can be found at etit.tuwien.ac.at/home/

Applications in English (preferred) or German must include the following documents:

- A detailed curriculum vitae (including professional and academic biography)
- A list of publications
- A listing of teaching and lecturing activities
- Copies of the most important publications with regard to the position announced

- Presentation of previous academic activities as well as a survey of research and development projects carried out and of funding raised
- Motivation letter and thoughts on the future positioning and further development of the field of biomedical electronics and systems at the institute of Electrodynamics, Microwave and Circuit Engineering in research and teaching

TU Wien aims at increasing the share of women, in particular in management functions and in the academic/artistic staff and therefore expressly encourages qualified women to apply. Female applicants who are equally qualified as the best qualified competing male applicant will be accepted by preference unless personal qualifications of a competing male applicant prevail.

We endeavour to hire handicapped people with corresponding qualifications and therefore expressly encourage them to apply. For more information please contact the confidential counsellor for handicapped persons at TU Wien, Mr Gerhard Neustätter (contact: Gerhard Neustätter, gerhard.neustaetter@tuwien.ac.at).

As a progressive university that is considerate of individual development and realisation of potential, TU Wien stands up for equal opportunities, for compatibility of career and family/leisure and for the needs of dual career couples.

We look forward to your complete application documents by **31.10.2018** (date of email or date of postmark) addressed to

Deans' Office Centre (Dekanatszentrum) **Erzherzog-Johann Platz**
Faculty of **Electrical Engineering and Information Technology**
TU Wien
Gusshausstrasse 30/4, A-1040 Wien.
dekan.etit@tuwien.ac.at

Enclosed with the written application should be a USB flash drive or a CD-ROM containing the complete application documents.

To the Dean: Markus Rupp