The Faculty of Electrical Engineering and Information Technology of the TU Wien invites applications at the Institute of Energy Systems and Electrical Drives for a tenure-track Associate Professor position for women only with qualification agreement in the area of **ENERGY ECONOMICS IN TRANSPORT**

in form of an initially fixed-term (6 years) full time tenure track position starting from March 1st, 2020 with the possibility of promotion to a permanent position as Associate Professor after a positive tenure evaluation.

According to TU Wien’s Plan for Advancement of Women, this announcement invites applications from women only.

The transport sector is a major contributor to global energy consumption and greenhouse gas (GHG) emissions and is, along with power generation, the fastest growing energy sector in the world. However, in contrast to power generation, where low-carbon energy sources are already available on a large scale, the transport sector is still largely dependent on oil products with still very limited low-carbon alternatives available.

There are two major challenges:
On the one hand environmentally friendly, alternative fuels and powertrains are needed and in this context among the most important are electric drives. Yet, while on rails electrification of drives is already widely deployed, in other categories such as road transport, shipping and airplanes it is still very limited and a huge demand for further research.
On the other hand, the major challenges in the electricity power sector are currently to integrate increasing shares of renewable energy. This requires the development of new storage technologies such as batteries and chemical storage as well as so-called sector coupling using excess electricity from variable renewable technologies such as wind and photovoltaics in the transport sector. However, finally the economic assessment of all these technologies will be crucial for their broader market penetration and poses a major performance criteria.

The tasks associated with this position includes the establishment or continuation of an own working group and independent research work on the development of advanced concepts and methods for the integration of modern, highly efficient vehicles into the transport system with special consideration of electric vehicles and renewable power generation technologies as well as the necessary economic, ecological and technical framework conditions. A technical educational background and a profound technical understanding are assumed in this context.

This position is also associated with teaching duties in the Bachelor's programme in Environmental Engineering and in the Master's programme in Energy and Automation Engineering. In addition to further contributions to the Institute's teaching, the teaching of the course "Energy Economics in Transport" and the leading teaching of the course "Selected Topics in Energy Economics" in the Master's programme are expected.

The requirements for applications to this position are as follows:

A candidate with an excellent international academic track record and well established international collaborations with universities and industry is expected. Additional reviewer activities for scientific conferences and/or journals are a must. Candidates should have
experience in supervising or co-supervising students at multiple levels of education. An already established research group is a plus.

Furthermore, the following requirements should already be fulfilled:

- Completed Austrian or equivalent foreign higher education degree (diploma or master) in Electrical-Engineering and a relevant doctorate
- Experience in the academic teaching
- Experience in running a research group and, as a result, proven social and gender competence
- Experience in designing and participating in research projects, as well as the willingness to acquire third-party funding

For more information please contact Prof. Reinhard Haas (haas@eeg.tuwien.ac.at).

The employment starts as University Assistant with a minimum salary of EUR 3.889,50 gross (14× per year) according to the collective bargaining agreement for a PostDoc. After signing the qualification agreement, the employment is as Assistant Professor with a minimum salary of EUR 4.599,60 (14× per year).

The letter of application should consist of the CV and should address the following points:

- Proof of academic degrees
- research statement (description of previous and planned research)
- teaching statement (description of previous and planned teaching)
- acquired third-party fund projects
- concept for the future plans in research and teaching and contributions to scientific profile of the faculty respectively of the university

People with special needs are equally encouraged to apply. In case of any questions, please contact the confidant for disabled persons at the university, Mr. Gerhard Neustätter (gerhard.neustaetter@tuwien.ac.at).

Applications should be sent until 6.2.2020 (date of postmark), to Vienna University of Technology, HR Administration for scientific staff, Karlsplatz 13, 1040 Vienna, Austria. The written application should contain a CD-ROM or USB stick with the complete application documents. Electronic applications should be sent as a single PDF file to Ms. Manuela Reinharter (manuela.reinharter@tuwien.ac.at).

Applicants have no entitlement to reimbursement of travel and subsistence expenses incurred by the application procedure.