The Department of Electronic Measurements and Signal Processing (EMS) at the Faculty of Electrical Engineering and Information Technology is offering a two-year position as

**Research Assistant.**

Compensation will be paid according to the civil service collective agreement (TV-L) and your individual qualifications up to payment group E13. The time limit of two years results from the third-party funding. Based on the results of the scientific work the post offers the possibility of gaining a doctoral degree.

The research of the Electronic Measurements and Signal Processing group EMS focuses on measurement and modelling of electromagnetic wave propagation, signal processing, multi-antenna systems in mobile radio and radar, UWB and millimeter wave radar sensors as well as localization of mobile radio terminals.

**Your Tasks:**
Your future research activities will be carried out in the Radar, Sounding and mmWave/THz Systems team. In interdisciplinary cooperation together with the EMS chair at the Technische Universität Ilmenau you will develop systems for the demonstration and measurement of broadband direction-agile radio interfaces for 5G mobile radio and radar.

We offer an attractive and familiar working environment with access to excellent laboratory facilities. You will perform research on and work with latest technologies as part of an open-minded and multi-cultural team. Our good contacts to numerous research facilities and technology partners, both nationally and abroad, enable you to shape the project realization as seen most promising. Furthermore we offer you excellent opportunities to reconcile working and family life.

**Our Expactions:**
- Above-average university degree in electrical engineering or computer sciences or similar fields
- Very good knowledge in the field of high frequency and microwave technology, signals and systems theory, microwave measurement technology
- Knowledge in the usage of draft tools for microwave systems (e.g. ADS, Ansys HFSS, Ansys Designer or CST) and MATLAB or Python
- Experience in the field of HF system integration
- Willingness and ability for academic writing and publications in the international framework
- Very good English skills in a technical and scientific environment

The tasks require a creative and self-reliant work kreative und eigenverantwortliche scientific work in a highly motivated multinational team. You should aim for a doctoral degree which will be highly supported by the chair oft he group.

Technische Universität Ilmenau is holder of the „TOTAL E-Quality“ distinction and emphasizes gender equality. Severely disabled applicants with essentially identical professional suitability will be preferentially selected.

Please send your application, consisting of application letter, CV, copies of certificates, references and recommendations, along with the reference 139/2018 by January 31 2018 at the latest, to:

Technische Universität Ilmenau
Dezernat für Personal und Recht
Postfach 10 05 65
98694 Ilmenau
Germany

or to: bewerbung@tu-ilmenau.de.

(Please send attachments in a single PDF file.)

For further information, please contact Univ.-Prof. Dr.-Ing. habil. R. Thomà (Tel. +49 (0)3677/69-2622, E-Mail reiner.thomae@tu-ilmenau.de).

Please notice that we cannot return your application documents unless you enclose a stamped and addressed envelope with sufficient postage. For saving public resources we kindly ask you to hand in copies, which are to remain at TU Ilmenau and will be destroyed at the end of the tending process.

Please be aware that this is a non-authoritative translation of the original document issued by TU Ilmenau under reference 139/2018 and is by itself not legally binding.