



TECHNISCHE UNIVERSITÄT  
ILMENAU

## Advertisement for the Position of the W3 Professor "Mikrosystemtechnik" (microsystems engineering)

At the Technische Universität Ilmenau the following position is open at the nearest possible date:

### University Professor (W3) "Mikrosystemtechnik" (Microsystems Engineering)

The university offers the future holder of this position an interdisciplinary research environment and excellent technical resources for research.

The university welcomes applications from persons who have an excellent qualification and reputation in the field of microsystems engineering and/or its applications.

The chair position is intended to further develop the specific focus of research and teaching on microsystems at the Department of Mechanical Engineering, taking new interdisciplinary competencies at the Technische Universität Ilmenau into account. The future holder of the position is expected to exploit and further advance the facilities available at the interdisciplinary Institute of Micro- and Nanotechnologies (IMN MacroNano<sup>®</sup>). In particular this includes the silicon-based technology at the Centre for Micro- and Nanotechnologies (ZMN) which provides the technological platform for the scientists organised in IMN MacroNano<sup>®</sup>. Possible fields of applications for the investigated technologies may be found in one of the following fields of research:

- micro-electro-mechanical systems (MEMS; Bio MEMS; HF MEMS)
- systems integration across scales or domains (micro-nano-integration)
- fluidic and photonic microsystems or integrated actor-sensor-systems

Cooperation with the interdisciplinary institutes of the Technische Universität Ilmenau (specifically with IMN MacroNano<sup>®</sup>) and the Research Training Group (RTG) "Tip- and Laser-based 3D-Nanofabrication (NanoFab)" offers numerous opportunities for cross-disciplinary cooperation within the selected areas of competence of the university such as "Nanoengineering", "Precision Engineering and Precision Measurement Technology", "Technical and Biomedical Assistance Systems", "Drive, Energy and Environmental Technology", "Digital Media Technology" and "Mobile Communication". Further opportunities for research cooperations exist through the external institutes of the university, such as the Institute for Bioprocessing and Analytical Measurement Techniques (iba), Heiligenstadt, or the Research Institute for Microsensor Systems (CiS), Erfurt.

The future holder of the position will conduct classes in German and English in the degree programs of the Department of Mechanical Engineering (esp. in the Bachelor and Master programs in mechatronics, mechanical engineering and optical systems engineering) as well as in programs of other departments (esp. in the international master program on "Micro- and Nanotechnologies"). A technical as well as conceptual enhancement of the offered course program is expected. He/she will actively participate in academic self-administration duties.

Prerequisite for taking the position as a university professor are the regulations according to §77 ThürHG, especially concerning proof of additional scientific accomplishments shown generally through the habilitation as well as through experience in teaching.

Having achieved the certificate "Total E-Quality", the university desires to increase female participation in research and teaching and thus encourages qualified female researchers to submit their applications. The university also actively supports moving the centre of life to the vicinity of the job place. The university will provide information on employers in the technology region Ilmenau-Erfurt-Jena in connection with career wishes of family partners. Severely disabled persons have preference in the application process, if they are equally qualified and suited for the position.

Normally, the appointment to the position is temporary during the first three years. More information on this is found in § 79 of the Thüringer Hochschulgesetz. Applications with the usual accompanying documents (curriculum vitae, certificates, index of publications including selected publications, documentation of teaching and practical experience) should be submitted by September 29<sup>th</sup>, 2017 to the

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