

Karlsruhe Institute of Technology (KIT) – The Research University in the Helmholtz Association creates and imparts knowledge for the society and the environment. It is our goal to make significant contributions to mastering the global challenges of mankind in the fields of energy, mobility, information and environment. For this, about 9300 employees of KIT cooperate in a board range of disciplines in research, academic education, an innovation.

The KIT-Faculty of Civil Engineering, Geo- and Environmental Sciences – assigned to Division IV Natural and Built Environment – invites applications for a

### **W2 Professorship for Machine Vision Metrology**

to be filled as soon as possible. This professorship is limited to a six-years period (with optional extension of four years based on third-party funding) and will be hosted at the Institute of Photogrammetry and Remote Sensing (IPF).

The professorship's area of responsibility includes the representation of the named subject in teaching, research, and innovation.

You will be responsible for teaching assignments in the areas of image processing, close-range photogrammetry, and machine vision for the Bachelor and Master courses of the faculty, in particular „Geodesy and Geoinformatics“ as well as „Remote Sensing and Geoinformatics“. Courses for neighbouring faculties as e.g. informatics, mechanical or electrical engineering are explicitly welcome. In research and innovation, the overall topic is the development of theories and methods from automatic image-based recognition via characterisation and analysis to object measurement. In view of the current dynamic developments and possibilities for cooperation at the intersection of research, innovation and application of „Machine Vision Metrology“, your focus should lie in the industrial context (e.g. „Large Volume Metrology“). The acquisition of corresponding third-party funding is expected.

The IPF offers an excellent environment for the scetched activities, and best possibilities for exchange among colleagues. Currently, ideal entrance possibilities are available with two professorships, structural cooperation with Geodesy and Geoinformatics and the large-scale research institution at the KIT, a high third-party funding proportion, a strong international network, as well as the general management of an international Master programme and the graduate school GRACE.

The candidate should be academically qualified in the named areas and have substantiated expertise and experience in applications of „Machine Vision Metrology“ with a geodetic background---proven by appropriate publications and co-operations. He or she is expected to use the potential of the KIT by interdisciplinary co-operations and contribute e.g. to the further development of the strategic research area Information. Furthermore, the collaboration in the academic self-administration is self-evident for the staff at the KIT.

Beside didactical abilities and teaching experience, a high-ranking academic qualification (if applicable: a habilitation) obtained either in or outside a university environment, is presupposed.

KIT pursues raising the percentage of female professors and explicitly welcomes applications from qualified Women. Preference will be given to equally qualified disabled applicants. The conditions of employment are according to § 47 LHG (Baden-Württemberg State Law of University).

Applications (hardcopies and e-mail) as well as the five most important publications (in electronic form only) are to be sent by September, 2<sup>nd</sup> 2018 to Karlsruhe Institute of Technology (KIT), Dean of the KIT-Faculty of Civil Engineering, Geo- and Environmental Sciences, Prof. Dr.-Ing. Stefan Hinz, Kaiserstr. 12, 76131 Karlsruhe, Germany, E-Mail: [dekanat@bgu.kit.edu](mailto:dekanat@bgu.kit.edu). The Dean's office will be happy to answer any questions and supply further detail information.