



University of Stuttgart
Faculty of Engineering Design, Production
Engineering and Automotive Engineering

INSTITUTE FOR MANUFACTURING TECHNOLOGIES OF CERAMIC COMPONENTS AND COMPOSITES | AT THE EARLIEST CONVENIENCE

Professorship (W3) for “High-Performance Ceramics and Material Composites”

We are searching for an outstanding personality who is excellently experienced in fundamental and application-oriented teaching and research in the field of manufacturing technologies, process and material development of ceramic components and material composites. Interested persons should also work successfully in the field of modeling and simulation, focusing on product and technology development in the digitalized and networked industrial environment with scientific methods and international visibility. The appointment of this professorship is linked with the management of the Institute for Manufacturing Technologies of Ceramic Components and Composites (IFKB).

The established research fields include material, process and manufacturing technologies of high-performance ceramics, additive manufacturing, surface and coating technologies as well as the further development of material composites and coatings. Focus of application is located in mechanical engineering, in energy and automotive technologies and in biomedical technology.

The professorship is oriented to the interface of material science and materials engineering, process and manufacturing technologies, additive manufacturing technologies as well as applied medical science with a strong multidisciplinary. Main research focus should be found in product development with new materials and manufacturing methods with applications in modern mechanical engineering and vehicle manufacturing, technical physics, energy and power management as well as medical technologies. The professorship and institute are embedded in the Stuttgart Center for Manufacturing Technologies (PZS) and the Graduate School of Excellence in advanced Manufacturing Engineering (GsaME).

In teaching, several bachelor courses have to be offered, focusing on manufacturing technologies of ceramic components and material composites, as well as courses for materials in biomedical technologies. In the master program, specific courses in the field of process and component development of high-performance ceramics, composite coatings and surface technologies have to be taught. In teaching the study course “Material und Production Technology” (WPT), special attention should be paid to the development of process models and digitalization technologies.

We are looking for a candidate with an outstanding track record of high-quality and internationally recognized scientific publications. Qualified and substantial experience in important research and development projects as well as leadership and motivation of coworkers is expected, including management experience in R&D of relevant industries.

The requirements for employment listed in § 47 and § 50 Baden-Württemberg university law apply.

Written applications with curriculum vitae, references and diplomas, list of third-party funds raised and/or industrial project responsibilities, list of publications including the three most important publications, patents or projects with reference to the professorship shall be submitted by post or as a PDF file by e-mail until 31.12.2020 to the Dean’s office of the Faculty 7 Engineering Design, Production Engineering and Automotive Engineering, Univ.-Prof. Dr.-Ing. Hans-Christian Möhring, Dean, University of Stuttgart, Pfaffenwaldring 9, 70569 Stuttgart, Germany; dekanat@f07.uni-stuttgart.de. When sending your application by unencrypted e-mail, please be aware of the risks of confidentiality and integrity of your application contents.

The University of Stuttgart has established a dual career program to support the partners of appointed persons. Further information is available at: <https://www.uni-stuttgart.de/en/university/employer/dualcareer/>. The University of Stuttgart is an equal opportunity employer. Applications from women are strongly encouraged. Severely challenged persons will be given preference in case of equal qualifications. Information on the collection of personal data in accordance with Article 13 of the GDPR (General Data Protection Regulation) can be found via the following link: <https://www.uni-stuttgart.de/en/privacy-notice/job-application/>.