University Professorship (W3)  
“Medical Robotics”

Job description:

The Institute of Anthropomatics and Robotics (IAR) within the Division II – Informatics, Economics, and Society – with its KIT-Department of Informatics is seeking to fill, as soon as possible, the position of a University Professorship (W3) “Medical Robotics”.

Research area of the professorship are methods and systems of medical robotics to improve patient treatment and care. The spectrum of research topics ranges from machine learning for medical robotics, robot-assisted and context-sensitive support for medical doctors, robot-assisted personalized therapy and diagnosis, image processing for medical robotics, real-time analysis of patient data, data science for medical robotics, design of operating rooms of the future to the development of innovative software, hardware and control concepts for medical robots, intervention robots and surgical robots, rehabilitation robots (exoskeletons, prostheses, orthoses) or personalized medical robot assistance systems.

In teaching, the aim is to contribute to the education of students of the KIT Department of Informatics, among others in the areas of medical robotics and applied artificial intelligence. Adequate participation in undergraduate German-language teaching is expected and adequate time to learn German is granted. You will perform university tasks with a teaching obligation of 9 semester hours per week.

The professorship contributes to the "Robotics and Cognitive Systems" focus of the KIT Department of Informatics. It is expected to contribute to the KIT Center “Information - Systems - Technologies (KCIST)”. Active participation in the academic tasks of the KIT Department of Informatics and in the KIT self-administration in Division II is also expected. The professorship is part of the collegial institute management of the IAR.

The professorship offers the opportunity to actively participate in the strategic cooperation between the Karlsruhe Institute of Technology and the University of Heidelberg within the framework of HEIKA, the Helmholtz Information & Data Science School for Health (HIDSS4Health) and the Karlsruhe Municipal Hospital. A corresponding commitment is welcomed.

Qualification:

A distinguished scientist with excellent scientific qualifications and an international reputation in his or her field is sought. Skills in the acquisition of third-party funding and the management of scientific working groups are expected, as well as very good didactic skills for both basic informatics lectures and in-depth courses. Experience in the development of innovations in application fields of artificial intelligence in healthcare, e.g. with industrial cooperation partners, is advantageous.

Please note the prerequisites for employment according to § 14 (2) of the KIT Act in conjunction with § 47 LHG Baden-Württemberg (Act of Baden-Württemberg on Universities and Colleges).
Institute: Institute for Anthropomatics and Robotics (IAR), KIT Department of Informatics / Division 2

Contract duration: Unlimited

Starting date: As soon as possible

Application up to: 10.12.2023

Application: Applications with the required documents (curriculum vitae with scientific career and list of publications, certificates and a perspective paper (maximum of three pages) on the planned research and teaching activities as well as possible collaborations at KIT are to be sent by 10.12.2023 compiled in one PDF document by e-mail to Division II (dekanat@informatik.kit.edu). For further information, please contact Professor Dr. Tamim Asfour (asfour@kit.edu).

The processing of personal data by the Karlsruhe Institute of Technology (KIT) is carried out according to the Privacy Policy.

KIT is an equal opportunity employer. Women are especially encouraged to apply. Applicants with disabilities will be given preferential consideration if equally qualified. As a family-friendly university, KIT offers part-time employment, leaves of absence, a Dual Career Service and coaching to actively promote work-life-balance.