

The Institute of Computer Engineering (ZITI) at Heidelberg University invites applications for a tenured

**Full Professorship (W3) in
“Scientific Computing”**

at the Faculty of Mathematics and Computer Science with specialization in **Biomechanics and Human Robot Interaction**. This is a W3 position for experienced scientists, however, young scientists with a strong track-record after the doctorate are also encouraged to apply. They will obtain a **tenure-track professorship (W1)** which converts into the W3 professorship after a positive evaluation. The tenure-track professorship lasts up to six years. The exact tenure-track regulations at Heidelberg University are available at: <http://www.uni-heidelberg.de/tenure-track>.

This professorship will be part of the research focus **“Robotics, Biomechanics & Medical Technology”**, which comprises the development of novel methods and devices for research on human biomechanics as well as simulation and design of assistive technology in robotics and medical technology.

We are seeking candidates with a proven research record in the areas of **Biomechanics, Robotics for Rehabilitation or Augmentation**. This includes the areas of expertise in biomechanical principles, ergonomics and advanced simulation of human physiology, as well as design and control of robotic systems for human assistance for both clinical and industrial scenarios. Applicants should provide inspiration and leadership in research and teaching by actively contributing to some of the following areas:

- biosignal acquisition and motion analysis,
- advanced biomechanical modeling,
- haptics and human machine interfaces,
- virtual reality environments,
- rehabilitation robotics and medical devices,
- powered prosthetics and exoskeletons.

Apart from the collaboration within the core competence of “Robotics, Biomechanics & Medical Technology” multiple interdepartmental laboratories for robotics, rapid prototyping and human motion analysis are available, and further ties with ZITI can be established with microelectronics, computer architecture and parallel computing. Further complementary research opportunities include the European Institute for Neuromorphic Computing (EINC), the Interdisciplinary Center for Scientific Computing (IWR) and the Heidelberg University Hospital with specific focus on Orthopedic Rehabilitation and Spinal Cord Injury.

In teaching, contributions to the Master program “Computer Engineering” as well as the Bachelor program “Applied Computer Science” are expected, in particular system theory and robotics.

Prerequisites for the application are a university degree and a doctorate in a related scientific field. For the direct application to the W3 position additionally a Habilitation, a successfully evaluated junior professorship or equivalent qualification is required (in accordance with Article 47, paragraph 2 of the Higher Education Law of the State of Baden-Württemberg). Candidates for the tenure-track professorship (W1) should generally not have spent more than six years of employment as a doctoral and postdoctoral researcher (Article 51 of the Higher Education Law of the State of Baden-Württemberg).

Heidelberg University intends to increase the number of women in those areas where they are underrepresented; qualified female candidates are therefore explicitly encouraged to apply. Disabled candidates with equal qualifications will be given preference.

Information on the collection of personal data in accordance with Art. 13 DS-GVO can be found on our homepage at https://www.uni-heidelberg.de/datenschutz_personal.

Applications with the usual documents (curriculum vitae, list of publications, research and teaching statements) should be submitted in English exclusively electronically as a single PDF-document until 31.10.2020 addressed to: Dekan der Fakultät für Mathematik und Informatik, Universität Heidelberg, Im Neuenheimer Feld 205, Mathematikon, D-69120 Heidelberg, Germany (email: stellen@mathinf.uni-heidelberg.de).