

As part of the Cluster of Excellence „Centre for Tactile Internet with Human-in-the-Loop“ (CeTI) the Faculty of Medicine of the TU Dresden and the University Hospital Carl Gustav Carus Dresden advertise a

Full Professorship (W2) for AI based assistance systems in Surgery

The professorship is assigned to the Department of Visceral, Thoracic and Vascular Surgery.

CeTI's research room U1 "Medical Assistance and Training" focuses on the development of novel context-sensitive real-time medical assistance. As a successful candidate you will develop novel concepts for such AI based assistance systems in surgical interventions in multidisciplinary collaborations and should advance their clinical validation in the context of clinical studies as well as their implementation in clinical practice. You will also contribute significantly to the closer integration of medical and technical disciplines within CeTI.

You have proven skills and recognized experience in clinical or medical science with a research focus on AI based assistance systems in surgery and ideally with experience in the development and conduct of clinical and translational studies. The call is aimed equally at physicians with a completed or aspired specialist training in visceral surgery and corresponding clinical and scientific experience as well as at medical scientists from relevant technical disciplines. Clinical work in the Department for Visceral, Thoracic and Vascular Surgery is generally possible. We also welcome your contribution to both the Dresden program of problem-oriented medical teaching and the academic self-administration of the faculty.

Both the Faculty of Medicine and the Carl Gustav Carus University Hospital offer an outstanding scientific environment as well as an excellent research and clinical infrastructure, especially within the National Center for Tumor Diseases (NCT/UCC) Dresden, which provides dedicated translational laboratories. Several state-of-the-art operating theatres and the experimental infrastructure of CeTI's cooperation partners may be used. Synergies are also expected with the Else Kröner-Fresenius Centre for Digital Health. Clinical studies and the use of clinical facilities are carried out in consultation with the Chair of the Department for Visceral, Thoracic and Vascular Surgery.

You will be employed by the Medical Faculty of the TU Dresden. Clinical practice in the Department of Visceral, Thoracic and Vascular Surgery is possible. The prerequisites for employment according to § 58 SächsHSFG are a university degree, doctorate, and habilitation or habilitation-equivalent achievement. You can also show a record of accomplishment of internationally reviewed publications and a successful acquisition of third party grants. The employment of professors with medical duties takes place within the framework of non-tariff employee contracts with basic remuneration as well as performance- and success-related remuneration components.

The Faculty of Medicine is committed to increasing the percentage of female scientists and encourages female applicants to apply. We also welcome applications from scientists with disabilities or additional support needs. Please send your application by **March 16, 2021** to the Dean of the Faculty of Medicine Carl Gustav Carus, Technische Universität Dresden, Prof. Dr. med. H. Reichmann, Fetscherstraße 74, 01307 Dresden, Germany. For further details concerning the required application documents see the homepage of the Faculty of Medicine or please contact the dean's office (Dr. Janetzky, +49 351-458 3356), the equal opportunity officer Dr. Valtink (+49 351-458-6124), or the representative for disabled persons Ms Vogelbusch (+49 351-458-3327).

The Technische Universität Dresden recognizes diversity as implicit and matter of course for a university of excellence. Hence we welcome all applicants that dedicate themselves with their proficiency and personality for the benefit of all. The Technische Universität Dresden is a family-friendly university and offers a dual career service. The Faculty of Medicine also provides active support for childcare options as well as help in finding adequate jobs in the region for the candidate's partner. The quality of life in Dresden is unique in Europe.