

The Else Kröner Fresenius Center for Digital Health (EKFZ), a joint center of the Carl Gustav Carus Medical Faculty of Dresden University of Technology and Dresden University Hospital, promotes translational and interdisciplinary research in the field of digital medicine and health. The center, which is funded by the Else Kröner Fresenius Foundation, cooperates closely with many high-tech specialists in Dresden's research environment and aims to strengthen and promote cooperation with university medicine. In this way, technical innovations are to benefit patients even more quickly.

For the next possible date a position as

Postdoctoral Scientist in „Clinical artificial intelligence“ (w/m/d)

in full-time employment, limited for an initial period of 36 months. Remuneration is in accordance with the classification regulations of the collective agreement for the public service of the federal states (TV-L E13).

As a Postdoctoral Scientist you will be part of an interdisciplinary, international and diverse team of physicians, computer scientists and engineers working together on the future of AI in medicine. We focus particularly on computational pathology, but routinely integrate other data types, including text, imaging, and genetic data.

You want to broaden your background in medicine and explore new medical and technical territory. You are fluent in Python and you have experience with NumPy, SciPy, and scikit-image. You know scikit-learn, TensorFlow, or PyTorch. Ideally, you have already contributed to Python packages. In your projects, you routinely use version control systems such as Git. You have obtained your PhD in computer science, bioinformatics or engineering, or an adjacent area. You are a team player and want to contribute to the future of AI in healthcare. You would like to become involved in our international network of collaboration partners in academia and industry.

Creativity and willingness to perform are in the focus. You are characterized by a service-oriented and quality-conscious way of working and enjoy interprofessional and solution-oriented work in an academic working environment. In addition, you identify with our goal of further developing a top location for university medicine.

Your tasks will essentially include:

- Conduct research focused on gaining new insights into disease pathomechanisms and using linkage of molecular, clinical, and imaging data
- Development of artificial intelligence-based clinical recommendations and therapy support systems
- Publication of research results (in journals, lectures, etc.)
- Solicitation and acquisition of additional third-party funded projects (research, consortium building, proposal writing)
- Participation in teaching formats (lectures, seminars) of the professorship Clinical AI and the EKFZ

Your profile:

- Successfully completed doctorate in engineering or computer science, natural sciences, biomedicine, computer science or similar research fields
- experience in the implementation of research projects
- Experience in the clinical use of artificial intelligence methods
- Knowledge of processing unstructured, clinical data sets
- Experience developing computer-based methods for storage, archiving, and usability through AI
- Experience in the development of new computer algorithms
- Very good command of written and spoken English
- Scientific knowledge to understand research content and communicate with scientists
- experience in interdisciplinary work in a clinical environment, interprofessional and solution-oriented work

We offer you the opportunity to:

- Work in leading medical research, teaching and patient care combined with a highly specialized work environment
- Job-oriented continuing education and training with individual planning of your professional career
- Implementation of your own ideas and work in an innovative interdisciplinary team
- Arrangement of flexible working hours to make the combination of family and career a reality
- Care for your children through partnerships with children's facilities in the vicinity of the University Hospital
- Use of company prevention offers, courses and fitness in our health center Carus Vital

Severely disabled persons are expressly encouraged to apply.

We ask you to apply preferably online in order to make the personnel selection process faster and more effective. Of course, we will also process your written applications (with a stamped return envelope) without any disadvantage to you.

We look forward to receiving your application documents, which you should send to us online by **31 May 2022**. For preliminary information, please contact **Ms. Sophia Wagner** by e-mail: sophia.wagner@uniklinikum-dresden.de.