

JOB VACANCY

We are one of the youngest universities in Germany and think in terms of unlimited possibilities instead of possible limitations. Located in the heart of the Ruhr metropolis, our 11 faculties develop ideas for the future. We are strong in research and teaching, we embrace diversity, promote academic potential, and we are highly committed to educational equality.

University Medicine Essen is on its way to becoming a SMART Hospital, where digital technologies will enable employees to further improve patient care, research and education. We are convinced that truly personalized medicine can only be realized, if we combine digitization in medicine with artificial intelligence. The newly founded Institute for Artificial Intelligence is part of the SMART Hospital Initiative of the University Hospital Essen and set out to combine medicine, technology and artificial intelligence for the benefit of patient care, research and education.

The **Institute for Artificial Intelligence in Medicine** invites applications for 2 PhD positions.

PhD Candidate (m/f/d)

(Pay grade E13 TV-L / 100% - temporary employment)

The pay grade classification depends on the personal and collective legal requirements. The employment is provided for 3 years to obtain a PhD degree. An extension of the job duration might be possible including the availability of third-party funds according to the maximum employment duration as given by laws regarding scientific fixed-term contracts (Wissenschaftszeitvertragsgesetz).

Your profile

- You hold a Master or Diploma degree in computer science, applied mathematics, technical medicine or related disciplines.
- You are highly motivated to expand your knowledge in one or more of the following fields: machine learning, natural language processing, causal discovery, conversational agents, and explainable artificial intelligence. Ideally, you bring some first experience (e.g., a student project) in at least one of the above areas.
- You have experience in programming, preferably python and deep learning libraries.
- You are proficient in English.

Your tasks

- Model the clinical research problem as a computer science problem addressing challenges such as multi-modal data integration, concept drift, learning for longitudinal data, data quality, and explainability of black-box models.
- Design, implement and evaluate machine-learning based solutions to those problems.

Our offer

- A full-time position with a competitive salary according to the German TV-L
- An attractive and modern workplace with excellent facilities
- A cooperative work setting and enthusiasm for innovative research in a diverse and English-speaking team

The University Hospital Essen is an equal opportunity employer. Female scientists are particularly encouraged to apply. The participation in secondary employment depends on the „Hochschulnebenbeteiligungsverordnung“ of North-Rhine Westphalia. Disabled applicants will be preferentially considered in case of equivalent qualification. The position is also available as part-time employment.

Please send your application documents (cover letter, curriculum vitae, certificates, references, etc.) in English or German within 2 weeks after publication of this job advertisement and with reference to the application ID **1129**, preferably via E-Mail in *one single PDF file*, to christin.seifert@uk-essen.de or to Universitätsmedizin Essen, Institut für KI in der Medizin, Frau Prof. Dr. Christin Seifert, Girardetstraße 2, 45131 Essen.

For more information about this open vacancy, please contact Christin Seifert via Email.

We use your data exclusively for application purposes in accordance with the applicable data protection regulations. Further information can be found in the privacy statement on our homepage at: <http://www.uk-essen.de>