

*We are a young, innovative university located in the heart of the Ruhr metropolis. We pride ourselves in outstanding research and teaching, think in terms of opportunities rather than limitations and develop ideas with a view to the future. Diversity is an integral part of our culture as we promote potential and are committed to upholding genuine equity in education.*

UNIVERSITÄT  
DUISBURG  
ESSEN

*Open minded*

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. We have therefore decided to establish an Institute for Artificial Intelligence (AI) in Medicine. In its founding stage, this institute will be staffed with professorships dealing with different aspects of AI in medicine. We envision these professorships to synergistically lead the successful development of our innovative concept. It is our aim to identify highly motivated individuals with a broad and complementary range of expertise with whom we undertake this journey.

The **Medical Faculty** of the University of Duisburg-Essen is inviting applications for a

## **Full Professorship for Artificial Intelligence in Cardiology (W3 BBesO grade post – tenure track; initially limited to 5 years)**

The position is newly established and will work in concert with four other professorships all related to the use of artificial intelligence in medicine and especially in direct cooperation with the Department of Cardiology and Vascular Medicine of the West German Heart and Vascular Center. Upon successful development/perpetuation of the professorship is envisioned.

Integration of artificial intelligence methods into routine approaches in cardiovascular medicine to approve diagnoses of disease, treatment decisions, and prediction of long-term prognosis. A specific focus of this field is set to identify new disease phenotypes for the development of targeted, individualized therapies particularly relating to the field of heart failure developed following reperfusion of an acute myocardial infarction.

The following are requirements for the future chair: Machine Learning research projects in epidemiology and/or life sciences (such as medicine or biology) with a focus on the identification of unknown signals in diagnostic data sets. Studies in Bioinformatics/Informatics and/or mathematics or a related field with focus on artificial intelligence. Experience in data-mining, artificial neural networks, and statistical modelling as well as experience in programming to enable introduction of innovative pathways into data integration and/or translational implementation into clinical routine are desired. Further prerequisites are knowledge in the field of cardiovascular physiology/medicine.

The future chair will also contribute to the main research foci of the Medical Faculty and will collaborate with and contribute to ongoing and evolving research consortia. Furthermore, the future chair will possess dedicated teaching skills and use innovative methods in teaching and post-graduate qualification.

Qualifications according to § 36 Hochschulgesetz NRW are required and successful experience with competitive third-party funding applications are mandatory. As the University of Duisburg-Essen puts special emphasis on the quality of academic teaching, concepts on the participation in teaching activities with regard to the profile of the University Duisburg-Essen should be provided.

The Medical Faculty in Essen promotes research particularly in the following areas: Cardiovascular Disease, Oncology, Transplantation Medicine and Translational Neuro- and Behavior Sciences, as well as the bridging disciplines of Immunology and Infectious Diseases.

The positions will be available at the earliest.

Application deadline: **20.06.2021**

The University of Duisburg-Essen aims to increase diversity among its faculty members (see <http://uni-due.de/diversity>) and strives to increase the number of women in such positions; therefore, we especially encourage women with relevant qualifications to apply. Women with the appropriate qualifications will receive preferential consideration. Applications from severely disabled candidates according to § 2 Abs. 3 SGB IX are welcome.

Applications with the usual supporting documents [curriculum vitae, list of scientific publications (see [www.uni-due.de/imperia/md/content/medizin/formblatt\\_aufbau\\_schriftenverzeichnis.pdf](http://www.uni-due.de/imperia/md/content/medizin/formblatt_aufbau_schriftenverzeichnis.pdf))], documents on scientific and professional career, certificate copies, information on third-party funding, participation in academic self-administration, past teaching experience and concepts for teaching, and 5 key publications should be submitted by email ([medizin-dekanat@uk-essen.de](mailto:medizin-dekanat@uk-essen.de)) to **Univ.-Prof. Dr. J. Buer, Dekan der Medizinischen Fakultät, Universitätsklinikum Essen, Hufelandstr. 55, 45147 Essen**.

Furthermore, we need you to fill in our application form at <https://www.uni-due.de/med/de/organisation/bewerbungsbogen.php>. Further information on the position and its embedding in the University of Duisburg-Essen as well as in the Faculty can be found at <https://www.uni-due.de/med/de/organisation/berufungen.php>.



**University Medicine Essen**  
University Hospital