



UNIVERSITÄT ZU LÜBECK



At the Institute of Systemic Inflammation Research (ISEF)
in the Medical Section of the University of Lübeck, a
W2 Professorship in AI-BASED PREDICTIVE IMMUNEANALYTICS
is to be filled as soon as possible.

The newly established professorship aims to utilize approaches in Artificial Intelligence (AI) and Machine Learning to facilitate the analysis of large and complex immunological datasets, which arise during the decoding of cell functions in clinical and preclinical contexts, and to integrate multimodal data sets. A particular focus is on multidimensional data from flow cytometry of cell populations from body fluids and tissues. It is expected that the holder of the position will bring an independent research program and develop it further at the location.

A key aspect of the professorship will be close networking with other research groups in Lübeck and at the partner location in Kiel. In particular, the research should have a direct connection to the EXC Cluster PMI 2.0 and align with the research focuses "Infection and Inflammation" and "Brain, Hormones, and Behavior," as well as the profile-defining areas of Intelligent Systems and Translational Oncology. For this purpose, the professorship should be networked with the Center for Artificial Intelligence (ZKIL) at the University of Lübeck. A gradual integration into local research collaborations, such as SFB1526 "Pathomechanisms of Antibody-mediated Autoimmunity," SFB1665 "Sex Diversity," GRK 2633 "Defining and Targeting Autoimmune Pre-Disease," and potentially other collaborations at the site, is also expected.

Additionally, an important task for the position holder will be the development of a practice-oriented course series on the topic of "AI in the Life Sciences" at the University of Lübeck, which will, for example, teach current tools for AI-based data analysis and the foundations for using Large Language Models in basic research and clinical practice.

Applicants need to have a completed university degree in the fields of natural sciences, engineering, medicine, computer science, or medical informatics. Medical and/or scientific experience in immunological or precision medicine issues in clinical and/or preclinical settings is advantageous. A collaborative and interdisciplinary mindset is of great importance for the area of work.

Reference is made to the employment requirements of §§ 61 and 62 of the Higher Education Act of the State of Schleswig-Holstein. The prerequisites for employment, in addition to a doctorate, include additional academic achievements that can be demonstrated through a junior professorship, a habilitation, or equivalent academic accomplishments, which may also be obtained outside the university sector. The professorship will be assigned within the framework of a fixed-term civil servant relationship for five years. In the case of a successful evaluation, a transition to a permanent position is planned.

The Higher Education Act obliges the Faculty of Medicine at the Christian-Albrechts-University of Kiel and the University of Lübeck to work closely with each other and with the University Medical Center Schleswig-Holstein, to establish focus areas, and to coordinate these with one another. This is also expected of the holder of the W2 professorship.

The university aims to increase the proportion of female professors and therefore explicitly encourages suitably qualified women to apply. Women will be given priority in cases of equal

suitability, qualifications, and professional performance. The universities are committed to employing people with disabilities and will preferentially consider applicants with disabilities if they are suitably qualified. Applications from individuals with a migration background are expressly welcomed. We explicitly refrain from requiring application photos and kindly ask applicants to refrain from including them.

Mandatory documents and further information about the application process can be found in the application guidelines at:

<https://www.uni-luebeck.de/structure/sektionen/medizin/stellenausreibungen.html>.

Electronic applications (as a ZIP file), including standard documents (CV, copies of certificates, academic career history, list of publications), must be submitted by **December 27, 2024**, to: President of the University of Lübeck, Professor Gabriele Gillessen-Kaesbach, Email: vpm_assistenz@uni-luebeck.de

For information regarding DSGVO compliance, see:

<https://www.uni-luebeck.de/universitaet/datenschutz/datenschutzhinFORMATION-bewerberinnen.html>