UNIVERSITÄT ZU LÜBECK

The University of Lübeck is a modern university specialising in Medicine, Computer Science, Molecular Biology, Biomathematics and Medical Engineering. Internationally renowned research and high standards of academic tutoring characterise the profile of the university.

The Institute of Medical Informatics (Director: Prof. Dr. Heinz Handels) has an exciting opening, to be filled as soon as possible (and preferable no later than October 2019), for a

(Post)-Doctoral Research Assistant (m/f/d)

in the research field of Medical Deep Learning with a fixed-term full-time employment (38.7 h/week) for three years (till 31 December 2022) within the BMBF funded project „computational life science - Multitask Deep Learning for Large-scale Multimodal Biomedical Image Analysis (MDLMA)". The position is for the purpose of gaining a further academic qualification (PhD or habilitation depending on previous degree). The successful candidate will be part of the research group of Prof. Mattias Heinrich, which has often pioneered new methodological developments in the field of medical image analysis and machine learning as evident from multiple best paper awards at MICCAI, MIDL and BVM. There will be the opportunity to co-supervise PhD/Master students in ongoing externally funded research projects and to gain senior author publications for a cumulative habilitation.

Requirements:

- a PhD or outstanding Master degree in computer science, mathematics, engineering or related
- prior experience in medical imaging or computer vision or machine learning, for PostDoc applicants as evident e.g. from at least one publication in either TMI, MedIA, MICCAI, MIDL, CVPR, ICCV, ICLR or equivalent
- be proficient in python programming for deep learning (pytorch, tensorflow) or willing to learn quickly
- willingness to contribute to the teaching in Master courses for Medical Informatics

We offer:

- the chance to perform cutting-edge research and advance the state-of-the-art to contribute to improved medical diagnosis, treatment and healthcare
- support for the development of new research ideas and the opportunity to communicate them within the group and at international conferences
- consideration of personal scientific interests in relation to the concrete arrangement of the project work
- the possibility to publish in scientific proceedings and journals and assist in writing grant applications
- an inspiring work and research environment with flexible working hours in a dynamic and growing research group (further PhD positions in the field of Deep Learning with regard to i) visualization of image-based thrombosis diagnostics, ii) interpretability & confidence estimation for findings in thoracic X-ray images, iii) multimodal registration & multitask learning on large data sets, iv) geometric approaches on point clouds as well as v) electrocardiography for prediction of arrhythmia), multiple industrial, clinical and academic collaborations in a city with high living standard (near to the baltic sea)

The final job classification within TV-L is subject to conditions of German Public service regulations.

The University of Lübeck sees itself as a modern and cosmopolitan employer. We welcome your application regardless of your age, gender, cultural and social background, religion, belief, disability or sexual identity. We promote gender equality. Priority will be given to women who have equal aptitude, competence and professional performance. As an applicant with severe disabilities or a person of equal status, we will give you preferential consideration if you are appropriately qualified.

Prof. Mattias Heinrich (heinrich@imi.uni-luebeck.de, +49-451-3101-5602) will be happy to answer any further questions you may have on the post and research subject (see also www.mpheinrich.de). Ap-

plications with the all relevant materials (cover letter with research interest, curriculum vitae, certificates, list of publications and the contact details of at least one reference), must be received no later than **17 May 2020** as a single PDF file to bewerbung@uni-luebeck.de, quoting the reference number **1009/20.** Applications could also be sent by post to address below:

Universität zu Lübeck - Die Präsidentin - Dezernat Personal
- Ratzeburger Allee 160, 23562 Lübeck