The Institute for Medical Informatics of the University Medical Center Göttingen is looking for:

**Ph.D. Student (f/m/d)**

in the clinical decision support systems group

limited to 31.06.2024, full or part time | salary according to TV-L

About us

The University Medical Center Göttingen is a tertiary care center and offers great development potential. Its 7,900 employees work in over 65 departments and facilities to provide top-quality patient care, excellent research and modern teaching. Göttingen, "City of Science", located near the center of Germany, the University Medical Center Göttingen is embedded in the city’s attractive network of scientific research facilities.

The research group Clinical Decision Support Systems focuses on the development of machine learning methods for the analysis of medical data with the goal of diagnostics and therapy optimization. For this purpose, different clinical, molecular, and medical image data are integrated and analyzed using statistical and machine-learning methods. However, there are still many challenges that hinder transfer to clinical practice. Sensitive patient information is often distributed across different institutions and, in many cases, cannot be shared between institutions due to data protection regulations such as the GDPR. In the FAIrPaCT project, we plan to develop federated learning algorithms that follow a privacy-by-design architecture. The idea is to create a generalized global model without access to a shared dataset by federating locally trained models t-
hat capture the essence of the data.

Your tasks:

- Development of a dissertation project with a focus on federated learning
- Design and implementation of research projects in collaboration with cooperation partners in the MII and the FAlrPaCT project
- Presentation of research results at national and international conferences
- Publication of research papers in international scientific journals
- Support of teaching and supervision of students and their theses

Your Profile:

- Master's degree preferred in Data Science, Computer Science, Medical Informatics, Bioinformatics, or Mathematics (or similar information science field) from an accredited university
- Team player with exceptional drive, creativity, and interpersonal skills
- Motivated and dedicated personality
- Excellent English skills

Our offer:

- Exciting and diverse responsibilities in collaboration with project partners at the MII and in the FAlrPaCT project.
- Intensive supervision and support during the Ph.D. program
- Inclusion in the GAUSS Ph.D. Program
- Access to an international research network and contact with leading scientists
- Participation in renowned scientific conferences
- Collegial work in a motivated and dynamic team
- Doctorate within the scope of the employment contract
- The UMG is happy to promote health and sports through a distinctive company health management system
- The UMG offers support through our placement service for childcare offers

We are looking forward to your application!
The University Medical Center Göttingen takes flexible account of the individual design of working hours at the workplace. It is interested in implementing the wishes of its employees as far as possible. If you are interested in this job and have specific questions about working hours, please contact us.

The University Medical Center Göttingen is committed to professional equality. We therefore seek to increase the proportion of under-represented genders. Applicants with disabilities and equal qualifications will be given preferential treatment.

We look forward to receiving your application by October 31st, 2022:

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Please send your application only via e-mail as a PDF-file.

Travel and application fees cannot be refunded or transferred.