



Friedrich-Alexander-Universität  
Erlangen-Nürnberg



## PostDoc positions in Health Data Science & AI in Medicine

The Machine Learning and Data Analytics Lab (MaD Lab, <https://www.mad.tf.fau.de>) at the Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU) invites applications for two postdoctoral positions in the areas of health data science and AI in medicine. The associated research projects are focused on a) federated virtual patient twins for machine-learning driven personalized medicine (in diabetes) within the European dAlbetes project (<https://www.daiabetes.eu/>), and b) medical data science / AI in medicine research in close cooperation with several cooperation partners within the University Hospital Erlangen.

### Position information

We are seeking highly motivated postdoctoral coworkers for these exciting research projects. The projects aim to develop advanced dataspace and (machine learning) algorithms with concrete applications in healthcare and medicine. More information on the individual projects is available upon request. You will be responsible for researching novel systems and algorithms, and for implementing and validating them in real-world settings. These interdisciplinary projects will involve close collaboration with industry and medical partners, fostering a dynamic and innovative research environment.

### Research environment

The Machine Learning and Data Analytics Lab is part of the new Department Artificial Intelligence in Biomedical Engineering of FAU, one of Germany's largest universities. With its five faculties, FAU offers a scope of subjects ranging from the Humanities to Law and Economics, as well as Sciences, Medicine, and Engineering. FAU's mission statement, "Moving Knowledge", reflects the close collaboration between the individual disciplines.

The MaD Lab at FAU researches machine learning algorithms and ubiquitous computing systems. The motivation of the MaD Lab researchers is to improve human well-being by contributing to applications in real-world settings. Detailed information on ongoing projects is available on our website, via our publications, and upon request.

### Requirements

The ideal candidates for these positions demonstrate a strong research passion, particularly in addressing medical research questions. Prospective candidates should hold a PhD or equivalent degree in Biomedical Engineering or a related field (e.g., Computer Science, Electrical Engineering) from a prestigious university with an above-average grade and should be able to demonstrate above-average research abilities obtained during their PhD. Proficiency in both written and spoken English is essential. Additionally, desirable qualifications include knowledge or experience in one or more of the following areas:

- Machine learning / deep learning / foundation models
- Federated learning
- Health / medical data science
- Personal health dataspace

Moreover, the candidates should be motivated to work within a fantastic interdisciplinary team and should exhibit exceptional social skills, drive, and dedication.

### Position details and contact for application/questions

Positions can start as soon as possible. Funding is available through a **TV-L E13 position (100%) with duration of two years initially**; extensions are possible. Prospective applicants should apply with a motivation letter (max. 1 page), academic CV, and optional certificates as one document. Applications will be accepted until positions are filled.

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