

Doctoral Candidate Position in Computational Neuroscience & AI for Personalized Neurostimulation at Professorship of Digital Health, Friedrich-Alexander-University Erlangen-Nuremberg (FAU) - <https://www.pdh.med.fau.de/>

Institut für Medizininformatik, Biometrie und Epidemiologie, Erlangen, TV-L E 13, Vollzeit, Befristete Anstellung, Bewerbungsschluss: 15.08.2025

Ihre Aufgaben

The doctoral candidate will develop AI-driven methods for digital phenotyping based on ubiquitous sensor data to continuously track behavioral and physiological changes in individuals. These insights will be integrated with neuroimaging-informed, patient-specific computational models to inform steerable neurostimulation strategies. The goal is to optimize stimulation parameters across the longitudinal therapeutic journey of the patient, enabling personalized and responsive therapy for neurological and psychiatric disorders.

Ihr Profil

Notwendige Qualifikationen:

We are looking for a highly motivated candidate with the following qualifications:

- Master degree in Computer Science, Biomedical Engineering, Electrical Engineering, or a related field
- Strong programming skills (e.g., Python, MATLAB, R)
- Experience with machine learning and AI, ideally in health or behavioral domains
- Familiarity with ubiquitous/wearable sensor data (e.g., physiological monitoring, smartphone usage)
- Background in computational modeling of neural systems (e.g., NEURON, The Virtual Brain, Sim4Life) is a strong plus

Stellenzusatz

Please send your application including the following as a single PDF file:

- A 1-page cover letter outlining your motivation and fit for the position
- Your CV
- Academic transcript(s)
- Contact information for two academic referees

Submit your application to andreas.rowald@fau.de. FAU is a member of the Best Practice Club Family and University and promotes equal opportunities. Female candidates are specifically encouraged to apply. The position is open to start immediately or at a negotiated date.

Interessiert?

Die vollständige Stellenausschreibung sowie alle Infos zum Bewerbungsverfahren finden Sie hier:

