

Research assistant position (f/m/d) in Clinical Computational Neuroscience and Computational Biology at the University of Bonn starting as soon as possible

Description:

The University of Bonn is an internationally operating research institution, with 200 years of history, around 38,000 students, more than 6,000 employees and an excellent reputation at home and abroad: the University of Bonn is one of the most important universities in Germany. In the last excellence initiative, the University of Bonn was able to secure six Clusters of Excellence, more than any other German institution, for research topics including mathematics and immunology.

We invite applications for a research assistant for contributing to developing models of personalized transcranial magnetic stimulation (TMS) in neurodegenerative diseases (e.g., Alzheimer's Disease). The project touches topics of probabilistic modelling, data analysis and optimization.

The research assistant will perform the following tasks:

- Improvement of preliminary mathematical models
- Development of model extensions
- Analyses of models' parameters and properties
- Implementation of models in established and reputable state-of-the art toolboxes for parameter estimation and statistical inference
- Preparation/Groundwork for a follow-up grant proposal

Qualifications and experience of candidates:

We are looking for highly motivated candidates with pursuing or with a completed Bachelor's or Master's degree (or equivalent) in medicine, neuroscience, psychology, biology, computer science, or a related field, and with a strong interest in modelling, data analysis and optimization. Necessary prerequisites are prior experience in programming with Python, demonstrable interest in quantitative research, strong analytical skills, ability for independent, creative and critical thinking, and excellent communication and writing skills in the English language. Prior experience in neuroscience is advantageous.

Employment conditions that we offer:

- An inspiring international research environment characterized by a strong focus on academic rigor and publication of results
- Intensive training in both computational methods and clinical research
- A high potential for qualifying for a PhD position
- Targeted development of professional skills in a professional career development program
- A position for six to twelve months (19 hours/week)
- Employment, payment and social benefits are consistent with those at other research institutes

The position is located in Bonn, Germany. Common working language is English and German (English-only candidates possible). The University of Bonn is committed to diversity and equal opportunity. It is certified as a family friendly university. It aims to increase the proportion of women in areas where women are underrepresented and to promote their careers in particular. It therefore urges women with relevant qualifications to apply. Applications will be handled in accordance with the Landesgleichstellungsgesetz (State Equality Act). Applications from individuals with a certified serious disability and those of equal status are particularly welcome.

Interested candidates are asked to send their applications including CV and a brief motivational statement of research interests and career perspectives, as well as contact details of one or two referees in a single PDF file to Dr. Xenia Kobeleva (xenia.kobeleva@dzne.de). Preference will be given to earlier applications. Further questions can be addressed to Dr. Xenia Kobeleva.