Research Assistant (PhD Position) in Computational Neuroscience

Brain network models: Dynamics and Control

Salary grade E13 (TV-L Berliner Hochschulen)
Duration: 34 months
Starting date: March 1st, 2020

Working field:
The successful candidate is supposed to work on the analysis and simulation of calibrated whole-brain networks using neuronal mass models and on the design and evaluation of novel control schemes for the stabilization of and the switching between dynamical states. She/he will be part of the Collaborative Research Center "Control of self-organizing nonlinear systems: Theoretical methods and concepts of application" (https://www.itp.tu-berlin.de/sfb910/sonderforschungsbereich_910/sonderforschungsbereich_910/) as well as the Bernstein Center for Computational Neuroscience Berlin (https://www.bccn-berlin.de/). The candidate is also expected to interact with clinical scientists who are interested in the non-invasive manipulation of the whole-brain dynamics using transcranial current stimulation.

Requirements:
Successfully completed university degree (Master, Diplom, or equivalent) in Computational Neuroscience, Computer Science, Electrical Engineering, Mathematics, Physics, or related fields; in-depth knowledge in dynamical systems, knowledge in the area of control of non-linear dynamical systems is desirable; very good programming and English language skills.

How to apply:
Please send your application with the usual documents (CV, motivation letter, transcripts of records, certificates, and the names of two persons who can provide recommendation letters) to Prof. Dr. Obermayer, FG Neuronale Informationsverarbeitung, Sekr. MAR 5-6, Marchstr. 23, 10587 Berlin, Germany, or - preferably - by e-mail to klaus.obermayer@tu-berlin.de. For information about the research group see https://www.ni.tu-berlin.de/

Please send copies only. Original documents will not be returned.

Application deadline for full consideration: 31. 1. 2020
Applications, however, will be accepted until the position is filled.