5 PhD student positions in human neuroimaging (up to 4.5 years) - ABINEP module 4

The newly established International Graduate School on Analysis, Brain Imaging, and Modelling of Neuronal and Inflammatory Processes (ABINEP) at the Otto-von-Guericke University Magdeburg (OvGU) is currently offering five PhD scholarships in the field of human neuroimaging. ABINEP is aimed at fostering cutting edge research in rising sub-disciplines of neurosciences and immunology, two fields of highest international reputation in Magdeburg.

With several research-dedicated 3T and one 7T MRI scanner, one MEG and numerous EEG and TMS labs and a combined MR-PET device, Magdeburg provides an outstanding infrastructure. Furthermore, a large community of researchers and several projects funded by the German Research Foundation (DFG), the European Union, and several Collaborative Research Centres, all based in Magdeburg, offer a stimulating environment for performing cutting-edge cognitive and systems neuroscience.

ABINEP aims at educating excellent international PhD student candidates in four modules, organised by topics. ABINEP module 4 is dedicated to the analysis of human brain function in health and disease. Within module 4, one scholarship each is offered by the following projects:

— Hippocampus-mapping and trend diagnosis of dementia (Düzel/Speck)
  http://www.iknd.ovgu.de/iknd/en/
— Pathology of decision making (Jocham/Ullsperger)
  http://www.ipsy.ovgu.de/ipsy_media/neuropsychologie/ABINEP_MU_GJ_02.pdf
— Impact of vision loss on visual search (Pollmann/Hanke)
  http://www.ipsy.ovgu.de/ipsy/en/exppsy_jobs.html
— Evaluation of Deep Brain Stimulation (Heinze/Zaehle)
  http://www.kneu.ovgu.de/kneu/en/neuropsychology.html
— Characterizing functional brain networks with fMRI and TMS/DCS (Hinrichs/Noesselt)
  http://www.ipsy.ovgu.de/ipsy/en/Departments/Biological+Psychology/Open_Positions.html

Please check the individual projects for further information.

Requirements:
Applicants must hold a Master's degree in disciplines related to neuroscience, psychology or biology. Knowledge of relevant programming languages (Python or Matlab) is required. A proven education in human experimental research and in at least one of the following brain imaging techniques (MEG/EEG, fMRI, TMS, PET) is advantageous.

Please submit your application via email to the relevant principal investigators AND abinep@ovgu.de as **a single PDF file** containing:

- a structured CV
- transcripts and certificates of your Bachelor and Master program courses
- a short letter of motivation (not more than one page)
- contact details of 3 faculty members willing to provide letters of recommendation for you

In the header of your email, please state clearly that you apply for module 4. Please also state for which of the projects you want to apply (names of the relevant principal investigators). The position is funded from 1.7.2017 to 31.12.2022. Only candidates eligible for a valid residence and work permit in Germany can be taken into consideration.

The OvGU is an equal opportunity employer and encourages qualified women and men, including those with disabilities, to apply. Applicants with a severe disability will receive preferential treatment if their qualifications and experience are equal to those of the other candidates.