

The newly funded Lise Meitner research group "Cognition and Plasticity", starting in 2019 and led by Dr Gesa Hartwigsen at the Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany (MPI CBS) is offering

Two postdoctoral positions on adaptive plasticity in the language network across the adult lifespan

In an innovative combination of various neuroimaging and non-invasive brain stimulation techniques and modelling approaches, we will investigate adaptive plasticity across the adult lifespan, from both healthy young and ageing adults to patients with brain lesions. This will include investigation of computations and interactions in the reorganised network in patients with chronic post-stroke aphasia. Initial funding is available for 3 years (with the possibility of extension).

Applications are invited for two experienced and highly motivated cognitive neuroscientists/experimental psychologists with strong computational skills. The project combines non-invasive brain stimulation (TMS, tDCS, tACS) with structural and functional MRI and MR spectroscopy to map adaptive plasticity in the language network. Candidates must have a PhD in psychology, cognitive neuroscience, computer science, or a related discipline. He/she is expected to be a talented and enthusiastic researcher who is willing to learn. The ideal candidate will have excellent programming skills and experience in acquisition and analysis of imaging data, preferably with multivariate approaches and connectivity analyses. The willingness to work with stroke patients is also desirable. Advanced English language skills are expected.

The project is conducted at MPI CBS in Leipzig, an internationally leading centre for cognitive and imaging neuroscience equipped with a 7.0 T MRI scanner, several 3.0 T MRIs, a Connectom ultra-high-field MRI scanner, a 306-channel MEG, several TMS laboratories, tDCS and several EEG systems. All facilities are supported by experienced IT and physics staff. You will be integrated into the interdisciplinary team of the Cognition and Plasticity group (formerly: Modulation of language networks group) under the supervision of Dr Gesa Hartwigsen.

Starting date is 1st February 2019 or later and the duration of the post is three years with the possibility of an extension for up to two years. Remuneration is based on the pay scale of the Max Planck Society. The Max Planck society is committed to increasing the number of individuals with disabilities in its workforce and therefore encourages applications from such qualified individuals.

Application is via our online system at <http://www.cbs.mpg.de/vacancies/open-positions> (subject heading: "PD 11/18"). Closing date for applications is 30th November 2018.

The application must include the following documents (in a single PDF file):

- Cover letter and personal statement
- Curriculum vitae and list of publications
- Contact details of two referees

Should you require any further information, please contact Dr Gesa Hartwigsen: [hartwigsen@cbs.mpg.de](mailto:hartwigsen@cbs.mpg.de)

<https://www.cbs.mpg.de/departments/neuropsychology/language-networks>