

The Ernst Strüngmann Institute (ESI) in Cooperation with Max Planck Society seeks a

Postdoctoral Researcher for MEG-based brain connectivity analysis.

The ESI is an independent research institute that conducts basic research in the field of cognitive and systems neuroscience. The ESI operates in close cooperation with the Max Planck Society and adheres to the same excellence criteria. The lab of Prof. Dr. Pascal Fries at the ESI is part of the Human Connectome Project, a major research effort involving a consortium of investigators at among others Washington University St. Louis, University of Minnesota, and Oxford University. The project is financed by the NIH with \$30M and will involve neuroimaging and behavioral testing over a five year period on a cohort of 1,200 normal adult humans.

At the ESI, we will investigate interactions among brain areas with MEG. We will develop new advanced methods for source projection and source level interaction analysis. The high temporal resolution of MEG will allow deriving the directionality of interactions to complement the insights from fMRI and DTI connectivity analyses performed by HCP partner labs.

Successful candidates will have a PhD in neuroscience or related fields, ideally with expertise in one of these areas:

- Electroencephalography (EEG) or Magnetoencephalography (MEG).
- EEG and/or MEG source analysis.
- Analysis of interactions with electrophysiological or neuroimaging methods.

We offer a 4 year postdoc position in a challenging project in collaboration with leading labs around the world, in an open and stimulating work environment. The deadline for applications is 15 October 2010. Start date is as soon as possible. The search will remain open until the position is filled.

Interested candidates are invited to send their application materials in electronic form (PDF format) to eva.parry@esi-frankfurt.de. Applications should contain a letter of intent, a detailed curriculum vitae, lists of university courses completed with marks obtained, and the names of at least two colleagues with whom the candidate has worked and who can give references.

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