

PostDoctoral Fellowship

Applications are invited for a **postdoctoral position** in the context of a multisite, multipartner collaboration between Anne Giersch (INSERM U1114, Strasbourg Univ.), Céline Meillier, Jack Foucher & Sylvain Faisan (I-Cube, CNRS, Strasbourg Univ.) and Virginie van Wassenhove (NeuroSpin, Saclay) as part of the FRM project entitled “Time, self and resting states in schizophrenia and bipolar disorder”.

The position is for 18 months, salary will be commensurate with experience and start date is ASAP.

Profile: The successful candidate will have demonstrated proficiency with data processing and/or data analysis.

Duties: The successful candidate will be responsible to model fMRI activity and the impact of time tasks on the dynamic of resting states networks. Moreover, the successful candidate will also examine the changes in the network activation over time, and how this dynamic and its disturbance in patients with schizophrenia and depression are governed by the networks identified during the time tasks.

Additional responsibilities include:

- Literature review and mastery of the topic;
- Quality controls for the analysis of fMRI data;
- Effective communication with peers within the consortium;
- Concise progress reports and coordination of discussion meetings among partners;
- Analysis and publication of the data;

Eligible qualifications for this position include:

- PhD in Image or Signal Processing (or in Computer Science); the candidate will have to show a strong interest in cognitive neuroscience / or PhD in Neuroscience (topic cognition or psychiatry), but associated with a solid background in signal processing
- Expertise in statistics, and ideally an experience in Markov chains;
- Strong coding aptitudes, proficiency in Python, Matlab or C++;
- Excellent written and verbal communication skills in English;
- Strong interpersonal skills, assertive and proactive;

The successful participant will be located at the University of Strasbourg for fMRI analysis, and will work under the supervision of Céline Meillier and Sylvain Faisan; he will benefit from the consortium and work in collaboration with Virginie van Wassenhove, with stays in Neurospin.

The **University of Strasbourg** is one of the largest scientific hub in France, with close partnership in Europe, and especially cross-boarder exchanges with Germany and Switzerland. I-Cube (CNRS) is a large laboratory with more than 650 members working in the fields of engineering science and computer science, with imaging as the unifying theme. The INSERM laboratory headed by Anne Giersch works in close collaboration with both i-Cube and Virginie van Wassenhove since years. Her laboratory is recognized for its expertise in the field of cognition and psychotic disorders.

NeuroSpin is a neuroimaging center dedicated to the understanding of the human brain. Five laboratories currently share their expertise on site and provide a stimulating research environment. The hosting team would be the Cognition & Brain Dynamics team lead by Virginie van Wassenhove.

Please, submit a letter detailing your current research interests, a curriculum vitae, and the contact information of up to three individuals who can provide a letter of recommendation to Anne Giersch (giersch@unistra.fr).