

## POSTDOC POSITION IN HUMAN fMRI ACTIVATION NEUROIMAGING STUDY

**City** : Caen

**Country** : France

**Position** :

The INSERM-UNICAEN-EPHE U1077 research unit based in Caen (Normandy, France, <https://nimh.unicaen.fr/>) invites applications for a 18 months position as a Postdoc in the field of Cognitive Neuroscience of Alzheimer, Music and Imaging.

The position is related to the research program INCAS « Imagerie de Nouvelles connaissances dans l'Alzheimer sévère – imaging new learning in severe Alzheimer's » led by Dr. Mathilde GROUSSARD and Hervé PLATEL. The project is a human fMRI study aiming to specify the neurocognitive mechanisms allowing implicit learning among patients with Alzheimer's disease. The candidate will be expected to analyze already acquired behavioural, structural and functional MRI data on preserved implicit learning abilities of severe amnesic Alzheimer's patients.

A strong background in functional MRI analysis (e.g. Multivariate pattern analysis of fMRI data) and programming (MATLAB, C++) is required. Clinical training, computational modeling expertise (e.g., machine learning) and/or a solid background in biophysics or mathematics are a plus. Essential to this post are good communication skills and an interest in multidisciplinary teamwork.

The successful candidate will join a team directed by Francis Eustache and Béatrice Desgranges, at the University of Caen Normandy and located at the Cyceron PET/MRI Center. You will join a large multidisciplinary team (including scientists, engineers, doctors, psychologists, technicians, and PhD students) researching the neural mechanisms of human memory and its disorders using neuropsychological and neuroimaging techniques, including MRI (3T), FDG-PET, EEG. This position offers the opportunity to work in a high-quality research environment, with significant interdisciplinary scientific collaborations and clinical applications.

## **Selection Criteria**

- A PhD in a relevant area of neuroscience
- PhD not obtained in a Normandy university (Caen or Rouen)
- Less than 35 years old by December 31, 2021
- Previous experience with functional neuroimaging data processing and analysis
- Good organizational and planning skills
- Ability to work effectively as part of a team as well as independently
- Fluent in written and spoken French and/or English

Applicants must completely address all selection criteria in their application.

**Date of Publication** : 22/11/2021

**Job** : Post-doctoral position

**Salary** : Around 2 450 € / month (net)

**Duration** : 18 months

**How to apply** : Please contact Mathilde Groussard

(mailto : [mathilde.groussard@unicaen.fr](mailto:mathilde.groussard@unicaen.fr) ) with a letter of motivation, CV and a recommendation letter if possible.