The Faculty of Psychology and Sports Sciences, Department of Psychology, Work Unit 14 "Biopsychology & Cognitive Neurosciences" (Prof. Dr. Tobias Heed) offers a full-time postdoc position starting February 1st, 2020.

(E13 TV-L, non-permanent position)

Your Tasks

The Biopsychology and Cognitive Neuroscience group is looking for a postdoc for the DFG-funded project "DYNT2M: Dynamic coding of tactile-motor transformation in human and macaque posterior parietal cortex". Group and project "Our group" investigates sensorimotor processing with emphasis on tactile processing and motor decisions in adults and children (see https://bit.ly/2SIoFZm). Our lab provides EEG, TMS, EMG, and a two-armed Kinarm. The project is a tandem in the funding program "German-French Projects in the Natural, Life, and Engineering Sciences" of the German Research Foundation (DFG) and the Agence nationale de la recherche (ANR). We partner with the group of Suliann Ben Hamed of the CNRS in Lyon (see https://bit.ly/3XLr7HS). The project investigates the dynamics of spatial coding of tactile-motor information in parietal cortex.

The advertised position focuses on investigating these processes in the human brain with fMRI and motion tracking. The French partner group will use equivalent paradigms in fMRI and neuronal recordings in macaques.

Your tasks: You will develop, implement, acquire, analyze, and publish fMRI and behavioral experiments in the tandem project. You coordinate the communication with the project partners. FMR1 will be acquired in Lyon in two research stays of several weeks each. The main work place, however, is Bielefeld, Germany.

Your Profile

We expect

We are looking for a team member who has obtained a relevant master degree and completed his/her dissertation who will actively support our complex, international project with high motivation. Applications can be considered if the PhD-thesis has been submitted, even if it has not yet been defended. You must have experience with data acquisition and analysis in neuroscience. You work independently, and your work style is to be thorough and precise. You enjoy addressing and solving the many challenges in experimental design and setup as well as in data analysis. You are team-oriented and bring high communication skills. Our team practices open science, and we publish code and data along with our papers; we expect your commitment towards these work principles. The common project language is English; therefore, excellent proficiency in English is essential, whereas knowledge of German and French are not required. The research stays in Lyon will be covered financially, but require you will be happy to spend several weeks abroad.

Preferable qualifications

You have excellent programming skills for experiments, analysis and statistics (e.g., Matlab, Python, R). In-depth experience with fMRI data acquisition and analysis will be very helpful.

Remuneration

Salary will be paid according to Remuneration level 13 of the Wage Agreement for Public Service in the Federal States (TV-L). The advertised position focuses on investigating these processes in the human brain with fMRI and motion tracking. The French partner group will use equivalent paradigms in fMRI and neuronal recordings in macaques.

Applicant Procedure

For full consideration, your application should be received via either post (see postal address below) or email (a single PDF document sent to tobias.heed@uni-bielefeld.de by October 18th, 2019). Please mark your application with the identification code: wiss19229. The application should consist of 1) motivation letter (max. 2 pages), including a brief description of your current research work, achievements, and research interests; 2) CV; 3) list of publications; 4) contact details of two scientists who can provide references. Please do not use application portfolios and send only photocopies of original documents because all application materials will be destroyed at the end of the selection procedure.

Bielefeld University is particularly committed to equal opportunities and the career development of its employees. It offers attractive internal and external training and further training programs. Employees have the opportunity to use a variety of health, counselling, and prevention programs. Bielefeld University places great importance on a work–family balance for all its employees.

Your Profesional Profile

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Contact

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