1 POSTDOC POSITION
ULTRA-HIGH-FIELD 7T MRI
GIGA - CYCLOTRON RESEARCH CENTRE / IN VIVO IMAGING
UNIVERSITY OF LIÈGE - BELGIUM

Joint Programme – Neurodegenerative Diseases Research (JPND)

IRONSLEEP - Early stage neuroimaging and behavioural biomarkers of PD progression and underlying mechanisms

WHAT: JNPD FUNDED POSTDOC
WHEN: CONTRACT START AS SOON AS POSSIBLE AND NO LATER THAN JANUARY 1ST 2023
WHERE: ULIEGE IN COLLABORATION WITH 3 OTHER INSTITUTIONS: MAX PLANCK INSTITUTE FOR HUMAN COGNITIVE AND BRAIN SCIENCES-LEIPZIG, UNIVERSITY OF AMSTERDAM, UNIVERSITY OF PÉCS
DURATION: 2.5 YEARS

The Ironsleep project will combine ultra-high resolution quantitative neuroimaging at 7T and recent advances in neuroanatomical techniques with state-of-the-art sleep research and genetics to unravel degeneration of subcortical nuclei in preclinical Parkinson’s Disease and associate them with REM sleep alterations.

Qualifications and requirements
- Candidates should be skilled, highly motivated, have excellent communication and organisational skills, able to work independently and as part of a team.
- Candidates must have a PhD in any disciplines related to the topics of the call (engineering, computer sciences, MR Physics, biomedical sciences, neuropsychology, cognitive neuroscience, biology, etc.).
- Previous experience in MRI imaging is also requested.
- Good statistical and coding skills and pre-exposure to Matlab, R and/or Python are requested.
- Mastery of English is a requirement; mastery of French is a bonus.
- Experience in cognitive neuroscience, neurological disease, genetics and/or sleep research is highly appreciated.
Work environment

GiGA-CRC IVI is a research team including psychologists, neurologists, chemists, physicists and engineers, gathering complementary skills in developing novel technical and methodological tools to better characterise the structure and function of the human brain. Applications and fields of research include sleep and chronobiology, healthy ageing and neurodegenerative diseases, multiple sclerosis, glioblastomas, and many fields of cognitive neuroscience.

The team has direct access to research-dedicated equipment, including a PET scanner (ECAT+, Siemens), a 3T whole-body MRI scanner (Magnetom Prisma, Siemens), a 7T whole-body MRI scanner (Magnetom Terra, Siemens), neuro-navigated TMS-EEG (Nexstim), high-density EEG system (EGI) and a sleep and chronobiology unit with five temperature-controlled, light-calibrated, soundproof bedrooms equipped for EEG recordings.

Application

Applicants are invited to respond as soon as possible and no later than September 30th 2022. Please include all the following documents in PDF format: CV (including list of publications), MSc certificate, PhD certificate (if PhD already awarded), contact information for two referees, a brief letter (maximum 2 pages) describing your personal qualifications, research interests and motivation for applying.

Applications or informal enquiries should be sent via email to gilles.vandewalle@uliege.be. Interesting candidates will be interviewed as soon as possible (they may be required to give a short research presentation). A second step will be organised before mid-October 2022 with shortlisted candidates.