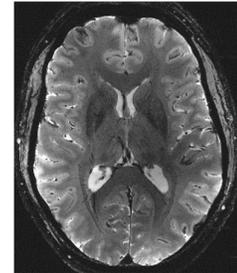


Tenured-research position in fMRI at ultra-high field



NeuroSpin (CEA, France) is seeking to fill a tenured-research position dedicated to fMRI applications at ultra-high field. The successful candidate will collaborate with the other team members of the institute to face the different challenges necessary to exploit optimally ultra-high field scanners. Although fMRI investigations at 7T are possible and encouraged, emphasis will be put on research on the clinical 11.7T MRI system. The candidate will lead an ambitious research program aimed at elucidating the cerebral organization of one or more well-identified cognitive processes (e.g. vision, language, learning, etc.), using advanced fMRI methods allowing access to the organization of the cortex and subcortical regions at high resolution (for example their subdivision into columns or specialized cortical layers). The researcher will be expected to have close interactions with the NeuroSpin physics team to bridge the gap between cognitive sciences (involved researchers: Stanislas Dehaene, Christophe Pallier, Evelyn Eger) and engineering (involved researchers: Nicolas Boulant, Alexandre Vignaud), and optimize fMRI protocols. The candidate will acquire the necessary funding (national, European) to broaden his/her scope and resources. The sought profile is a neuroscientist with experience and interest in fMRI applications at high field. A PhD in neuroscience or related field and a minimum of 2 years post-doctoral experience are desired. More engineering-oriented training is possible as long as strong experience with fMRI applications is demonstrated. Experience with Siemens technology is, though not required, a plus. The candidate should show excellent problem-solving and communication skills.



NeuroSpin is a research institute dedicated to brain imaging. It belongs to the Commissariat à l'Énergie Atomique et aux Énergies Alternatives, located in Saclay (suburb of Paris France), and is led by Prof. Stanislas Dehaene. It hosts approximately 150 staff members (tenure researchers, post-doctoral fellows and PhD students) including physicists, computer scientists, mathematicians, clinicians, neuroscientists and technicians. The institute is equipped with three preclinical (7T, 11.7T, 17T) and three clinical (3T, 7T, 11.7T) MRI scanners. The Iseult 11.7T clinical MRI scanner is a world-premiere in the MR community. Designed by CEA, with a 90 cm wide bore it holds a world record in terms of stored magnetic energy in an MRI magnet. It reached its nominal field strength in July 2019 for the first time and first images were obtained in Oct 2021. Functional MRI is considered one of the leading applications. Additional human and hardware resources, already available or soon invested, will boost the candidate's means to carry out his/her investigations at this unprecedented field strength. The deadline for the application is Feb 28th 2024, for a position to be filled mid 2024. To apply, please send your CV as well as a 3 pages description of a research program to aurelie.verpilleux@cea.fr. Please also arrange for three reference letters to be sent. For further inquiries about the position, please contact the same address.