

## Tenure research position in fMRI at ultra-high field



NeuroSpin (CEA, France) is seeking to fill a tenure 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 (e.g. high resolution, laminar fMRI). The researcher will be expected to have close interactions with the local neuroscience team to bridge the gap between physics and cognitive sciences. The candidate will lead his/her own research program and acquire the necessary funding (national, European) to broaden his/her scope and resources. The sought profile is an MR scientist with experience and fundamental interest in fMRI applications. A PhD in physics, electrical engineering or related field and a minimum of 2 years post-doctoral experience are desired. More neuroscience-oriented training is possible as long as strong experience with fMRI acquisitions is demonstrated. Experience with Siemens technology is, though not required, a plus. The candidate should show excellent leadership, 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 energy in an MRI magnet ([English Portal - 11.7 teslas: The World-Record Magnetic Field Generated by a Human MRI Magnet \(cea.fr\)](#)). It reached its nominal field strength in July 2019 for the first time. First in vitro image is expected by the end of 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 Jan 31st 2022, for a position to be filled by mid 2022. To apply, please send your CV as well as a 3 pages description of a research program to [nicolas.boulant@cea.fr](mailto:nicolas.boulant@cea.fr). Please also arrange for three reference letters to be sent. For further inquiries about the position, please contact the same address.