

## **Postdoctoral position in neuroimaging of small vessel disease (Paris)**

### *Context and objectives*

We are hiring a postdoctoral fellow to join our research team (Inserm/University Paris Diderot) dedicated to brain imaging in neurovascular disorders. This position is part of a 5-year starting project (« Trt-cSVD ») including many academic and industrial partners. The imaging part of the project aims at developing innovative markers of brain microstructure and microcirculation in cerebral small vessel disease using cutting-edge MRI acquisition and post-processing.

Our team uses neuroimaging techniques to better understand, monitor and predict the clinical course of patients with small vessel disease. These are very frequent diseases, responsible for 30% of strokes and being a major cause of cognitive decline and disability in the general population.

Your main objective will be to find new sensitive and robust markers from MRI images. Notably, you will interact with physicists, neuroimaging specialists and clinical neurologists to make emerge imaging markers from advanced diffusion MRI, perfusion MRI (ASL) and other methods to characterize brain tissue microstructure and microcirculation (quantitative relaxometry, IVIM, etc.). You will mainly focus on image analysis, underlying biophysical models, and statistical analysis. You will also favor imaging project progress and endorse some responsibilities in data storage and pre-processing. Finally, you will publish your results in scientific journals and present your work in international conferences.

### *Expected profile*

You have a PhD in relevant areas with experience in MRI neuroimaging and strong publication record. You master neuroimaging tools and are confident in statistical analysis. You are autonomous and efficient in computer programming and image processing. Rigorous, well-organized and curious, you are ready to work at the interface between methods and clinical applications.

### *Contact*

Send us CV + cover letter to Nathalie Gastellier ([nathalie.gastellier@aphp.fr](mailto:nathalie.gastellier@aphp.fr)), Eric Jouvent ([eric.jouvent@aphp.fr](mailto:eric.jouvent@aphp.fr)) and Hugues Chabriat ([hugues.chabriat@aphp.fr](mailto:hugues.chabriat@aphp.fr)).

*1-year contract, renewable. Salary according to experience. Starting November 2017.*