Belgium:PhD student high speed MR imaging and spectroscopy

Job description

The project: The proposed research program is devoted to high speed MR imaging and spectroscopic sequence development for neuroscience and brain disease applications. We will explore the combination of new encoding techniques to speed up acquisition time and consequently improve the data quality in both dynamic imaging and metabolite mapping. This strategy consists of a combination of new encoding approaches, (Fourier and non-Fourier encoding methods) which provide accurate spatial localization, along with existing rapid encoding techniques to perform rapid metabolic, and physiological studies for the better understanding of brain functions and the more accurate diagnosis of brain diseases. Work environment: GIfMI, the Ghent Institute for Functional and Metabolic Imaging, is a research facility at the Ghent University centered around a for research dedicated 3T MRI scanner (Siemens Tim Trio). All facilities for MR puls sequence programming are available in the lab. You will work under the supervision of the senior MR physicist, Hacene Serrai. There is a very close collaboration with MEDISIP, the engineering department involved in medical imaging research. Rik Achten, director of GIfMI, is work package leader in a COST action (BM1103) which results in a large network of pulse programming specialists and post-processing specialists being available. We offer: Full time employment in a 38h working week. A standard salary as predoctoral researcher (starting above € 1700 net per month) at the Ghent University with all it’s facilities and services. Please read http://www.ugent.be/en/research/doctoralresearch, where you will find information concerning your position as PhD student at the Ghent University.

Profile of the candidate

Your profile: We are looking for a highly motivated PhD candidate with a master degree in electrical or biomedical engineering, physics or equivalent. You are motivated to work in close collaboration with other scientists. You will be part of the neuroscience community at the Ghent University (http://www.instituteforneuroscience.com/). You have excellent proficiency in written and spoken English.

How to apply

Interested? Send your CV and motivation to hacene.serrai@uzgent.be For more information on the application procedure: + 32 (0)933 20685.

Tentative Submission Deadline : 30 November 2014

Further Information