PhD position on quantitative reconstruction for Time-Of-Flight PET/MRI

Description of research environment:

The MEDISIP research group (http://medisip.elis.ugent.be) is searching for a highly motivated and talented PhD student for research on image reconstruction and attenuation correction for simultaneous Time-of-Flight PET MRI. MEDISIP (MEDical Image and SIgnal Processing) is an iMinds research group (http://www.iminds.be/en), part of the faculty of engineering of Ghent University. The team consists of 25 researchers, active in the field of medical imaging science and multimodality imaging. The Infinity lab (www.infinity.ugent.be) and spinoff company Molecubes (www.molecubes.com) work in close collaboration with the research group. MEDISIP is located at the University Hospital (UZ Ghent) and has ongoing collaborations with hospitals, research groups and industry all over the world. During the last years significant part of the research work has focused on system design, reconstruction and attenuation correction of PET-MR. MEDISIP is internationally considered to be a world-leading research group in this area.

Profile:

You have a Masters in Engineering (Biomedical Engineering, Applied Physics, Computer Science Engineering, Electrical Engineering) or a Master in Science (Mathematics, Physics or Applied Physics).

You are a collaborative dynamic person who likes to work in a multidisciplinary research environment. You are flexible and are willing to pursue deadlines.You are willing to travel abroad for meetings. You have a good background in simulation reconstruction and/or image processing and have knowledge about programming (Java, C++, Matlab). The group offers a 1-yr contract. This will be extended to a full PhD period (4 years) after successful completion of the 1st year.

How to apply:

Applicants should send their application (motivation letter + CV + English language certificate + references) to **Stefaan.Vandenberghe@ugent.be**

Candidates with an interesting profile will be contacted for an interview (skype for international candidates). The position will be filled as soon as possible.