

Postdoctoral Research Associate Vacancies at King's College London

PET-MR Motion Correction

The Division of Imaging Sciences and Biomedical Engineering at King's College London are seeking to employ two postdoctoral researchers on 3 year contracts, starting in spring/summer 2015. The post-holders will work on an EPSRC-funded project which will perform research into PET-MR respiratory motion correction based on dimensionality reduction and machine learning techniques. Expertise in one or more of the following fields is required:

- PET acquisition/reconstruction/simulation
- Machine learning/dimensionality reduction
- MR acquisition/reconstruction

The post-holders will work under the supervision of the grant principal investigator, Dr Andrew King, and the co-investigators Dr Andrew Reader, Prof. Paul Marsden and Dr Claudia Prieto. The work will involve developing novel techniques, publishing in high impact journals and presenting findings at international conferences.

The posts will be based in the Division of Imaging Sciences and Biomedical Engineering at St. Thomas' Hospital, London, U.K. The Division is a leading-edge multidisciplinary research and teaching Division situated within St Thomas' Hospital. The Division has undergone dramatic expansion in recent years, with notable infrastructure investment including complete refurbishment of the PET centre and a King's Health Partners investment of £20 million into new GMP radiochemistry facilities, a new cyclotron, two new GE Discovery PET-CT scanners and a Siemens Biograph mMR simultaneous PET-MR scanner. Multiple key academic positions have also been created to strengthen the Division's expertise in multi-modality imaging, comprehensively covering imaging chemistry, image acquisition, image reconstruction, analysis and clinical applications. Now with 2500 m² of space housing over 200 scientists, including state of the art laboratories with pre-clinical and clinical imaging systems, the Division also hosts one of four Medical Engineering Centres of Excellence funded by the Wellcome Trust and EPSRC.

This is an excellent opportunity for an ambitious researcher to join this stimulating environment and perform cutting edge research into the problem of motion in PET-MR.

Please contact andrew.king@kcl.ac.uk for informal discussions and details of the application process.

