Wellcome Centre for Integrative Neuroimaging, University of Oxford

Postdoctoral Researcher in FMRI Methods Development

Grade 7: £32,817 - £40,322 p.a.

We are seeking a highly motivated and talented researcher to join the Wellcome Centre for Integrative Neuroimaging (WIN, formerly FMRIB) Physics Research group to work on the development of novel image reconstruction methods for functional MRI.

The full-time role will be based at the WIN at the John Radcliffe Hospital, on a 3 year fixed-term contract funded by the EPSRC. The postholder will benefit from their state of the art facilities and dynamic scientific environment at the WIN, and will be a member of the Physics Research group (www.win.ox.ac.uk/research/physics-research), reporting to Dr. Mark Chiew. Our group develops, validates and applies novel MR imaging techniques for basic and clinical neuroscience. The postholder will work on multi-dimensional image reconstruction problems using low-rank tensor models and machine learning techniques to facilitate robust high resolution fMRI of the brain and brainstem, at 7T.

You will need to have a doctoral degree (PhD or DPhil) or nearing completion of, in physics, engineering or other relevant discipline, expertise in MRI acquisition techniques and a track record in image reconstruction and analysis of MRI data. Experience with MATLAB, Python or C++, and working with optimisation methods and machine learning would be desirable. You will have a proven track record of publishing work and excellent communication and interpersonal skills, along with the ability to manage your own research and administrative activities, and an excellent academic track record.

Informal enquiries may be addressed to Dr Mark Chiew (mark.chiew@ndcn.ox.ac.uk). Applications for this vacancy are to be made online. You will be required to upload a CV, a statement of research interests including detail of how your past experience and future plans fit with this project, and contact details of two referees as part of your online application.

The post is full-time for a fixed-term until 30 April 2023 in the first instance and the position is available from 1 May 2020. Only applications received before 12:00 midday on 24 February 2020 will be considered. Interviews will be held as soon as possible thereafter.

The Job Description and details on how to apply can be found at: https://my.corehr.com/pls/uoxrecruit/erq_jobspec_details_form.jobspec?p_id=144896