



Wellcome Centre for Integrative Neuroimaging, University of Oxford

MRI Translational Development Scientist

Grade 7: £32,236 - £39,609

We are seeking a talented and highly motivated researcher to join the Wellcome Centre for Integrative Neuroimaging (WIN) Physics Development Support Team. The post is full-time for a fixed-term until April 2022 in the first instance. The primary duty is to provide translational physics support for human and animal neuroscience research at a world-leading neuroimaging centre.

WIN is a newly-formed institution uniting Oxford neuroimaging centers including the former FMRIB. The Centre hosts one 7T and two 3T Siemens scanners, a non-human primate dedicated 3T Siemens scanner and a new small animal 7T Bruker scanner along with Transcranial Magnetic Stimulation (TMS), transcranial Direct Current Stimulation (tDCS), MEG and EEG systems. The successful candidate will have a particular focus on the new small-animal system and associated facility, but will also work on the clinical imaging platforms. Under the supervision of the Senior Physics Support Scientist, the postholder will develop, implement and improve upon advances in MRI pulse sequences and image reconstruction, and optimise scanning protocols for both general use and special projects. The postholder will also devise and implement validation and quality assurance methods for the scanner hardware and software. The postholder will benefit from an exciting and dynamic scientific environment and work closely with the WIN's Physics Research group and collaborate with the facility's users on a variety of short-, medium- and long-term projects that align with the Centre's overall strategic vision. Some of these developments may lead to novel techniques and/or research findings culminating in academic outputs, as appropriate and desired by the postholder.

The ideal candidate is required to hold, or be close to completion of a PhD in physics or engineering using MRI and have experience in MRI sequence development and/or imaging reconstruction techniques, ideally for neuroimaging. Having programming experience, including but not limited to C/C++, Matlab/Python and UNIX scripting is essential. It would be beneficial to get previous hands-on experience with electronics or hardware, particularly RF coils in addition to a good knowledge of MRI safety and quality assurance.

Informal enquiries may be addressed to Stuart Clare (Stuart.clare@ndcn.ox.ac.uk) or Mohamed Tachrount (Mohamed.tachrount@ndcn.ox.ac.uk).

The closing date for applications is 12:00 midday on 9 October 2019.

The Job Description (vacancy ID 142761) and details on how to apply can be found at: https://my.corehr.com/pls/uoxrecruit/erq_jobspec_version_4.jobspec?p_id=142761