Wellcome Centre for Integrative Neuroimaging, University of Oxford

MRI Translational Development Scientist


We are seeking a MRI Translational Development Scientist who will be responsible for development, implementation, and optimisation of cutting-edge MRI physics techniques at the Wellcome Centre for Integrative Neuroimaging (WIN). WIN is a new Centre uniting Oxford neuroimaging, including the former FMRIB Centre. As part of WIN’s Core Physics Development Team, the primary duty of this post is to provide translational physics support for neuroscience research at the Centre.

WIN hosts significant infrastructure for MRI scanning, including multiple 7T and 3T scanners. The post-holder 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. They will also devise and implement validation and quality assurance methods for the scanner hardware and software.

They will work collaboratively with the facility’s users on a variety of short-, medium- and long-term projects that align with the Centre’s overall strategic vision. The post-holder will have a particular focus on the new state-of-the-art 7T scanner and associated facility, but will also work with our clinical imaging platforms. Some of the post-holder’s work may lead to novel techniques and/or research findings culminating in academic outputs, as appropriate and desired by the postholder.

They will be supervised by the Lead Physics Development Scientist and work closely with the WIN’s Physics Research Group.

The postholder 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. It is also essential that they have programming experience, including but not limited to C/C++, Matlab/Python and UNIX scripting. It would be beneficial if they have previous hands-on experience with electronics or hardware, particularly RF coils and if they have a knowledge of MRI safety and quality assurance.

The post is full-time for a fixed-term of 3 years in the first instance.

Only applications received before 12.00 midday on 5th August 2019 will be considered. Interviews will be held as soon as possible thereafter.
The Job Description and details on how to apply are at: