Postdoctoral Researcher in Ultra-High Field Arterial Spin Labeling

The WIN/FMRIB Physics Group at the University of Oxford seeks a Postdoctoral Researcher to develop non-invasive brain blood flow measurements using ultra-high field (7T) MRI. This includes the development and validation of novel arterial spin labeling (ASL) pulse sequences, incorporating cutting edge ultra-high field techniques such as parallel transmission and dynamic B0 shimming.

This work fits with a broader fellowship project, headed by Prof Thomas Okell, that aims to develop a robust platform for 7T ASL, enabling, for example, the accurate measurement of white matter perfusion and high-resolution functional ASL, along with the development of advanced ASL methods, such as vessel-selective approaches and combined angiography/perfusion imaging. The successful candidate would join the WIN/FMRIB Physics Group, led by Prof Peter Jezzard and Prof Karla Miller, within the broader multidisciplinary team of physicists, engineers, mathematicians, neuroscientists and clinicians at the WIN.

Key Requirements:
- Hold (or be imminently about to complete) a doctoral degree (PhD) in physics, engineering or other relevant discipline
- Knowledge of MRI physics, particularly that relevant to ultra-high field imaging
- In addition, experience with MRI pulse sequence development (ideally on a Siemens platform), ultra-high field MRI, RF pulse design and/or arterial spin labeling methods would be particularly beneficial.

Post Details:
Duration: full-time for a fixed-term of 30 months in the first instance, with the potential to extend (subject to funding availability).
Salary: Grade 7: £32,817 - £40,322 p.a.
Application deadline: 12.00 midday (UK time) on 24th September 2021 (although start date is flexible).

Further information:
Informal enquiries: are most welcome! Please email Tom Okell (tokell@fmrib.ox.ac.uk)
To apply: Please visit this link
Further information on our research: https://www.win.ox.ac.uk/people/thomas-okell