Institute of Psychological Medicine and Clinical Neurosciences

We are seeking a talented post-doctoral research associate with a strong interest in the development of advanced neuroimaging analysis and tissue modelling. The post-holder would work on a neuroimaging project that aims to develop MRI methods and models for measuring human brain microstructure as a marker of brain state and function and to incorporate these measurements into models to predict drug and cell delivery to the human brain. The position will involve developing MRI data acquisition and analysis strategies based around microstructural imaging on a Siemens Connectom 3T system with ultra-strong (300mT/m) gradients and a Siemens 7T MRI system. The post-holder will be expected to test these new methods in collaboration with clinical colleagues.

Applicants should have a first degree in the physical or biological sciences and have obtained or be soon to obtain a relevant PhD. The ability to communicate well with scientific colleagues, present data effectively and interact well with participants in our experiments is essential. Candidates should have a good understanding of the biophysics underlying diffusion MR imaging methods as well as statistical modelling. Research experience in diffusion MR methods development including statistical modelling would be a distinct advantage, as would experience of image data analysis in a UNIX environment using software such as MATLAB.

Potential applicants are encouraged to contact Prof Derek Jones (tel: +44-29-2087-9412 or email: JonesD27@cardiff.ac.uk) to find out more about the role, before submitting a formal application.

This post is a full-time (35 hours per week) fixed-term position until 31 March 2018, and is available from 1 October 2015

Please be aware that Cardiff University reserves the right to close this vacancy early should sufficient applications be received.