We are seeking an enthusiastic Post-Doctoral Research Assistant (PDRA) to develop and apply novel magnetic resonance spectroscopy approaches for the study of metabolic alterations in the diabetic and failing human heart at ultra-high fields. Based at the Oxford Centre for Clinical Magnetic Resonance Research (OCMR), this position offers an exciting opportunity for someone who is interested in working in a fast-moving area of science and who can work well within a multi-disciplinary team consisting of clinicians, MR physicists, engineers, and image analysts. The post is funded by Sir Henry Dale fellowship from the Royal Society and The Wellcome Trust.

The application of ultra-high field multi-nuclear magnetic resonance spectroscopy is an emerging field at Oxford, building on a wide array of prior pre-clinical studies and a vast experience of developing and applying novel cardiac MRI approaches in first-in-human studies. We have funding to help close the gap towards personalized assessment of the metabolic profile of the diabetic heart to identify the transition towards heart failure. Through our close links with the clinical cardiology team and the strong cardiac MR physics group based at OCMR, you will be well supported in your role enabling these exciting studies.

You will be required to hold (or be near completion of) a PhD or equivalent in physics, engineering, or a similar subject and have experience of magnetic resonance spectroscopy (MRS) and/or imaging (MRI). Experience with pulse sequence programming on Siemens MR systems would be desirable.

This is a full time appointment on a fixed term contract for 2 years in the first instance with a potential extension for a further 2 years. You will be based at the Oxford Centre for Clinical Magnetic Resonance Research (OCMR), John Radcliffe Hospital, Oxford, OX3 9DU.

For further details please click [here](#) or contact ladislav.valkovic@cardiov.ox.ac.uk for an informal discussion about the post.

Applications for this vacancy are to be made online; you will be required to upload a CV and supporting statement which explains how you meet the selection criteria for the post.

Applications must be received before 12.00 midday on 31st January 2022 with interviews scheduled to take place in the middle of February.