For more information about this role, please see the About the Job.

This is an opportunity for a highly motivated post-doctoral MRI physicist/engineer to work on a major international EU-funded (public-private partnership) research project, Translational Imaging in Drug Safety Assessment (TRISTAN; www.imi-tristan.eu). TRISTAN is a collaboration between partners in academia, industry and SMEs developing new quantitative imaging biomarkers that will help drug developers bring new, safer drugs to the market.

Your role will be to develop MRI acquisition, modelling and analysis strategies to derive imaging biomarkers of hepatocellular function in patients, based on dynamic imaging with a liver-specific contrast agent. The methods will be implemented in international multi-centre clinical studies (UK and Sweden) testing whether these new biomarkers can detect the effect of drugs and predict their interactions. The results will feed into an ongoing process with regulators (FDA) to formally qualify these biomarkers. The candidate will also work with collaborators to set up a service for academic partners and with SMEs to commercialise these biomarkers.

You will work closely with Professor Steven Sourbron, Chair in Medical Imaging Physics, who has a core expertise in quantitative and functional MRI, serving as principal investigator on several international projects including as chair of the ongoing COST action on renal MRI (www.renalmri.org) work package lead in the BEAt-DKD project (www.beat-dkd.eu) and chair of the open source initiative for perfusion imaging (www.osipi.org). You will benefit from collaborations within TRISTAN, both at the University of Sheffield and internationally with clinicians and basic scientists from broad backgrounds (MRI physics, hepatology, pharmacology). TRISTAN draws heavily on collaborations with the private sector and covers much of Europe, providing an excellent opportunity to scout out different possible career paths.

The post will suit candidates who hold an honours degree in Physics or Engineering or equivalent experience. It’s essential they have a PhD (or be close to completion) in MRI Physics or Engineering or equivalent experience. Candidates must have a track record of publication in MR and imaging journals. Experience in development of quantitative methods is crucial. Candidates need to have effective communication skills, both written and verbal, and experience of delivering presentations. Experience of working in a multi-disciplinary team and being able to manage their own time is crucial. Candidates must have an ability to develop creative approaches to problem solving. The ability to manage an independent, original research project, attention to detail and a proven ability to keep accurate and reliable records is essential.

We’re one of the best not-for-profit organisations to work for in the UK. The University’s Total Reward Package includes a competitive salary, a generous Pension Scheme and annual leave entitlement, as well as access to a range of learning and development courses to support your personal and professional development.

We build teams of people from different heritages and lifestyles whose talent and contributions complement each other to greatest effect. We believe diversity in all its forms delivers greater impact through research, teaching and student experience.

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For further information please contact Steven Sourbron at s.sourbron@sheffield.ac.uk. To apply for this role, please visit www.sheffield.ac.uk/jobs.