Research Fellow in Advanced Neuroimaging

Closing date: 11/12/19

We are seeking to appoint a talented Research Fellow in Neuroimaging to join Clinical Neurosciences in the Faculty of Medicine, at the University of Southampton. You will join a vibrant group of researchers pushing the boundaries of knowledge in neurology across the life-span. You will specifically work on the neuroimaging aspects of two exciting neuroscience projects, funded by external grants:

1. Brain development and cognitive/behavioural outcomes in children with a history of neonatal hypoxic-ischaemic encephalopathy (Dr Brigitte Vollmer)

2. Structural brain changes during systemic inflammation in adults with progressive multiple sclerosis (http://go.soton.ac.uk/6ya) (Dr Ian Galea)

This is an exciting opportunity for someone with an interest in applying advanced MRI techniques to characterise the brain response to acquired injury across the lifespan. A background in neuro MRI image processing is essential, including computer science, MRI physics, or other related area and experience in image analysis and programming, with strong mathematical/statistical skills. A higher degree in any of these areas is desirable. Detailed understanding of image analysis and manipulation, programming, software management, data processing, management and analysis are essential. You should be able to supervise work of junior research staff, to present research results at group meetings and conferences, and to contribute to writing up research results for publication in leading peer-viewed journals.

You will work as part of a dynamic multi-disciplinary team of clinicians, scientists, data analysts, and MR physicists, within a clinical research environment, collaborating with researchers in various departments both in Southampton and elsewhere. You will join lab meetings, academic series, and journal clubs, and contribute to the growth of neuroimaging in Southampton. We invest in people, and you will be encouraged to develop your career in neuroimaging.

Be a part of the University of Southampton, an institution in the top one per cent of world universities and one of the UK’s top 15 research-intensive universities. We have an international reputation for research, teaching and enterprise activities. The Faculty of Medicine leads in innovative learning methods and research for better health across the life course. In the 2014 REF, 75% of the Faculty's research was rated as either internationally recognised or world class. 94% of our research was deemed 3 or 4* for impact. The University of Southampton and the University Hospital Southampton NHS Foundation Trust have made a significant investment in research imaging, including a 3T Siemens Skyra MR scanner dedicated to research, several neuroimaging research appointments, and a dedicated Research Imaging Management Group. There is an ongoing commitment to continue expanding neuroimaging research in Southampton. We work within a vibrant multidisciplinary environment and work closely with colleagues across the University including the Faculty of Engineering and the Institute for Life Sciences. We have one of the largest computational facilities in the UK, including Iridis 5 which is one of the world’s top 500 supercomputers, with more than 20,000 processor-cores providing 1,305 Tera-Flops at peak performance.

At the University of Southampton, we value diversity and equality.

For additional information and informal enquiries, contact Dr Brigitte Vollmer, B.Vollmer@soton.ac.uk (neonatal hypoxic-ischaemic encephalopathy) and Dr Ian Galea, I.Galea@soton.ac.uk (multiple sclerosis).

Application Procedure: please visit https://jobs.soton.ac.uk/Vacancy.aspx?ref=1199819FC