

UNIVERSITY OF BIRMINGHAM

PhD studentship

In the development of magnetic resonance imaging and spectroscopy for childhood cancer - Novel metabolite biomarkers of prognosis in childhood tumours

Lead Supervisor: Dr Andrew Peet,

Co-Supervisors: Dr Theodoros Arvanitis, Dr Martin Wilson.

Institute: University of Birmingham, [School of Cancer Sciences](#), College of Medical & Dental Sciences

Project duration: 3 years initially

Funded by: Birmingham Children's Hospital Research Foundation

An exciting opportunity has arisen for a PhD student to work with the internationally acclaimed Brain Tumour Research Group at the University of Birmingham and Birmingham Children's Hospital. We are a highly translational research group working at the interface between patients and the laboratory. The work will focus on the discovery and evaluation of novel metabolite biomarkers detected using the technique of magnetic resonance spectroscopy which can be used both directly on the patients in the hospital and on tumour tissue and cell lines in the laboratory. Experience in a broad range of techniques will therefore be gained and these studentships offer an excellent opportunity to gain a PhD at the interface between the physical sciences, biomedical research and the clinical environment. The research will take place in the new Magnetic Resonance Research Centre at Birmingham Children's Hospital, which gives an excellent opportunity to learn MR scanning techniques, the Henry Wellcome Building for Biomolecular NMR, a national centre of excellence for laboratory based work and the school of Cancer Sciences at the University of Birmingham. The project is a collaboration with Medical Physics and Engineering and would particularly suit a physics or physical sciences graduate with an interest in biomedical applications.

Person Specification

We're looking for a highly motivated person with a passion for applying physical sciences techniques to cancer research and who either holds or realistically expects to obtain at least an Upper Second Class Honours Degree in a relevant subject.

This position is fully funded for university fees and a stipend

How to apply

Enquiries or applications including a CV, names and addresses of two referees and a covering letter should be sent to Nicola Windridge, Research and Knowledge Transfer Office, Institute of Biomedical Research, College of Medical and Dental Sciences, University of Birmingham, Edgbaston, Birmingham B15 2TT or email n.j.windridge@bham.ac.uk

The closing date is Wednesday 11th January 2012