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PhD Studentship and Post-Doctoral Research Fellowship in Diffusion Tensor Imaging

Project Summary:

PhD and Post-Doctoral Research Fellowship positions are available in the UCD diffusion tensor imaging (UCDTI) research group. The research will focus on determining the relationship between myocardial fibre orientations and cardiac wall motion through registration of tagged Magnetic Resonance *in-vivo* data and *ex-vivo* Diffusion Tensor Imaging data. The goal of this work is to understand cardiac problems on a structural level by combining imaging techniques that reveal heart fibre orientation with techniques that reveal the broad spatio-temporal dynamics of the beating heart.

This project is part of a study funded by Science Foundation Ireland and is in collaboration with colleagues from the Technical University Eindhoven, St. Vincent's University Hospital, UCD CASL and TCD. The PhD studentship funding is available for up to 4 years starting 1st October 2009 (earlier start date possible) and will include a stipend of €72,000 over 4 years, plus fees.

Qualifications / Background Required:

Candidates (EU only) should have or should be about to obtain a degree in engineering, computer science or related areas. Previous experience in image processing and MRI, in particular DT-MRI, would be an advantage although training can be provided to suitable candidates.

Further Information:

Please send your CV and contact details for two referees to Dr. Kathleen Curran by e-mail: kathleen.curran@ucd.ie

