



## **Postdoctoral Research Fellowship in Magnetic Resonance Diffusion Tensor Imaging of Arterial Tissue (2 year)**

### **Project Description:**

The aim of the project is to translate an existing diffusion tensor imaging protocol, used for fibre characterisation within animal arterial tissue, to one suitable for the characterisation of the arterial structure of healthy human carotid arteries.

The researcher will work closely with other members of a multidisciplinary team including PIs, clinicians, postdoctoral research fellows and postgraduate researchers in the Trinity Centre for Bioengineering, the Trinity College Institute of Neuroscience, and St. James's Hospital Dublin.

### **Required Qualifications:**

The candidate should have a PhD in biomedical imaging, bioengineering, computer science or a related discipline with specific expertise in medical imaging, preferably diffusion tensor imaging, soft tissue testing or tissue modelling experience and computer programming (e.g. Python, C++, Matlab, FSL etc.). Candidates should have a strong publication record and a demonstrated ability to mentor PhD students.

### **The Lally Lab:**

Caitríona Lally is a Professor in the School of Engineering in Trinity College Dublin and PI within the Trinity Centre for Bioengineering (TCBE). Prof. Lally leads a multidisciplinary research group where the aim is to develop innovative means of diagnosing and treating cardiovascular diseases through the integration of arterial biomechanics and vascular biology (<http://www.mee.tcd.ie/biomaterials/People/CLally>).

The successful applicant will work within a multidisciplinary project team including PIs, postdoctoral research fellows and postgraduate researchers in the Trinity Centre for Bioengineering (TCBE; <http://www.tcd.ie/bioengineering/>) in Trinity College Dublin.

### **Start date:**

May 2018 (preferred); position will remain open until suitable candidate is found.

### **Application process:**

Please e-mail your CV (including the names and contact details of 3 referees) to [lallyca@tcd.ie](mailto:lallyca@tcd.ie) with the subject heading "Postdoctoral Researcher in Vascular Tissue Engineering"