

## **The University of Manchester - Medical & Human Sciences**

### **Research Associate – quantifying age-related changes in tissue structure and function**

The University of Manchester is seeking high quality candidates for two positions that have arisen as a result of an MRC-led Lifelong Health and Wellbeing award made to the Schools of Biomedicine and Translational Medicine (FMHS) and to the School of Materials (FEPS). This post (based in the School of Biomedicine) will work in close collaboration with the post based in the School of Materials.

Whilst changes in the micro-mechanical properties of tissues underlie many of the pathologies associated with ageing, the structural causes remain poorly defined. This project aims to characterize the relationships between age-related changes in tissue composition, structure and micro-mechanical function. In order to achieve this goal, this novel project will employ well established histological techniques and newly developed instrumentation to localize age-related micro-mechanical changes to specific tissue components.

You will be primarily responsible for: i) co-coordinating the collection and storage of cutaneous, cardiovascular and skeletal tissues sourced from UK collaborators and ii) conducting histological analysis of tissue sections which in turn will be mechanically characterized by colleagues based in the School of Materials. In addition, key to the success of this project, will be your ability to act as the central liaison between biomedical and biomechanical research disciplines.

Applicants must have a PhD or equivalent and have relevant experience in the collection, storage and microscopical analysis of tissues. Experience of ultrastructural techniques would be an advantage.

Informal enquiries: Dr Michael Sherratt  
Tel: +44 (0)161 275 1439  
Email: [michael.sherratt@manchester.ac.uk](mailto:michael.sherratt@manchester.ac.uk)

Further details can be found at: <http://www.jobs.ac.uk/job/ADR955/research-associate/>