

PhD Position at the University of Melbourne, Australia - in Biofabrication and Matrix Mechanobiology

The Integrative Cartilage Research Group, Department of Biomedical Engineering at The University of Melbourne is seeking an excellent PhD candidate to research links between cartilage mechanobiology and signalling networks using 3D bioprinting.

The ICR Group is interested in developing, refining, and using biomedical engineering tools and concepts, to explore and understand the effects of mechanics on living musculoskeletal systems on the molecular, cellular, and organ level of organisation, while maintaining a philosophy of respect and compassion for all human and animal life.

The University of Melbourne has a number of prestigious scholarships for excellent PhD candidates. If you are interested in pursuing a PhD and have a sense of adventure, in order to qualify for the UoM Postgraduate scholarship,

- you should have a four-year bachelor degree in a relevant discipline which includes a substantial research component equivalent to at least 25% of one year of full-time study and has achieved a minimum weighted average of 75% in the final year subjects or equivalent, or a masters degree in a relevant discipline which includes a substantial research component equivalent to at least 25% of one year of full-time study and achieved a minimum weighted average of 75% or equivalent,
- any prior research experience is an advantage.

Only candidates who qualify for a scholarship will be considered.

The project involves biofabrication of tissue models of the musculoskeletal systems in order to investigate cellular responses. **You should have** a strong background in biomedical engineering, biochemistry, biotechnology or molecular biology, and a keen interest in applying this knowledge into medicine. A good understanding and previous experience in biofabrication techniques is advantageous.

The successful candidate must be a keen learner, creative, possess effective written and oral communication skills in English, have good time management, be willing to perform and/or be involved in testing of human and animal biological specimens, and most importantly have a strong ability to work in an international and dynamic team environment.

To apply, please send your application including a motivational letter, a curriculum vitae, university transcripts, and contact details of two academic or professional references to to Dr Kathryn Stok, kstok@unimelb.edu.au. For further information, please contact Dr Stok directly.

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