



Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
The University of Dublin

PhD studentships in tissue engineering / mechanobiology

Two funded PhD studentships have become available in the area of ocular mechanobiology. The aim of these projects will be to explore the effect of fluid flow and mechanical environment on the behaviour of corneal and trabecular meshwork cells using in-vitro bioreactor systems and 3D biomaterial scaffolds. The successful candidates will receive training in a variety of biological and bioengineering techniques and have access to state-of-the-art facilities at the Trinity Centre for Biomedical Engineering. There will also be the opportunity to attend international conferences.

Candidates should ideally have a 1st class honours primary degree or MSc degree in a relevant science, engineering or biotechnology discipline. Experience or knowledge in any of the following is desirable but not essential as training will be provided: molecular techniques; cell culture and imaging; cell biology; biomaterials synthesis and scaffold fabrication; bioreactor design; tissue engineering and ophthalmology.

The funded PhD Studentship at Trinity College Dublin, University of Dublin include fees (at EU student rate only) and a competitive stipend starting September, 2022. Closing date for applications is 8th July 2022. Interested candidates for this exciting opportunity should send a CV, cover letter and contact details for two referees to Prof. Mark Ahearne via e-mail (ahearnm@tcd.ie). Informal enquires are welcome.

Further details about Prof. Ahearnes research and the Trinity Centre for Bioengineering can be found at [Ahearne Lab](#) and [TCBE](#)