PhD Scholarships in Organ Bioprinting (2X)

Biomedical Engineering and CÚRAM,
University of Galway, Ireland.

Applications are invited from suitably qualified candidates for full-time, fully-funded PhD scholarships (2X) in Organ Bioprinting. The scholarships are funded by a **European Research Council Starting Grant** and will be under the supervision of **Dr Andrew Daly,** Assistant Professor in Biomedical Engineering. The researcher will join Dr Daly's lab, which combines expertise in biomaterials development, biofabrication, and induced pluripotent stem cells. The group leverages this interdisciplinary research expertise to create organ models with advanced physiological structure and function. The lab is located in the vibrant biomaterials research cluster at CÚRAM, the Science Foundation Ireland Research Centre for Medical Devices at the University of Galway, which possesses state-of-the-art biomaterials and tissue engineering research facilities. The position is available from May 1st 2023. For further information, see biofabrication.ie.

University of Galway: Located in the vibrant cultural city of Galway in the west of Ireland, with over 18,000 students and more than 2,400 staff, the University of Galway has a distinguished reputation for teaching and research excellence https://www.universityofgalway.ie/our-research/. In particular, the University of Galway is a leading international research hub for Biomedical Engineering Research, and Galway's Medtech cluster is globally recognised as one of the top 5 in the world.

Project Description: Bioprinted organs promise to revolutionise medicine by tackling the organ transplant shortage and providing new animal-free platforms for drug screening and discovery. Despite considerable advances in bioprinting technology, creating organs with suitable physiological relevance for implantation or drug screening applications remains challenging. This frontier research project will establish new developmentally-inspired approaches to organ bioprinting. These biomimetic bioprinting strategies will be leveraged to accelerate the maturation of induced pluripotent stem cells, which has been a major roadblock in the field. As part of the PhD program, you will receive advanced training in biofabrication, induced pluripotent stem cell culture, hydrogel synthesis, advanced microscopy, and molecular biology analysis techniques.

Stipend: Fully funded four-year scholarship - €19,000 per annum (tax-exempt scholarship award). You will also receive a high-end laptop for your research. Travel expenses are included to attend leading international conferences.

University fees: University fees are fully covered by the scholarship.

Start date: Expected start date of May 1st 2023.

Academic Entry Requirements: Applicants must hold a Bachelor's degree in Biomedical Engineering, Materials Science, Biomedical Science, or a related field. Prospective candidates should be enthusiastic, motivated, and willing to learn new skills.

To Apply for the Scholarship: Interested candidates should send their CVs (including the names of two referees) and a one-page motivation letter explaining why they would like to join the project to Dr Andrew Daly at andrew.daly@universityofgalway.ie. Please use the subject line "PhD application". For an informal discussion on the positions, do not hesitate to reach out via email.

Application Deadline: 01 /02/2023

For information on moving to Ireland, please see www.euraxess.ie