



**Dundalk Institute of Technology invite applications for the following position:
PhD postgraduate Scholarship (Full-time: 36 months)**

Project overview

Title: *Safe and Trustworthy Artificial Intelligence in Medical Devices – a Regulatory-Friendly Framework*

Supervisor: Prof. Fergal McCaffery (DkIT) and Prof. Thomas Ward (DCU)

Position Reference: 01BIODESIGN2020

Keywords: *Medical device software, Algorithmic Bias, Artificial Intelligence*

The central idea is perform research that will contribute to the development of a regulatory compliant framework for medical device software containing AI algorithms.

The main research question will be what practices should be included in a AI Medical device software development Standard Operating Procedure to provide assurance to regulatory bodies that devices containing different levels of AI complexity are safe for the various safety classification levels of devices.

Dundalk Institute of Technology

Dundalk Institute of Technology is a dynamic, world class Institute that has developed an international reputation in both basic and applied research through its Research Centres. This PhD Scholarship is offered through the Regulated Software Research Centre, within the School of Informatics and Creative Arts at DkIT. The successful applicant will be registered as a full time postgraduate research student in the DCU-DkIT Graduate School. The PhD position will be located on the DkIT campus and the Degree will be awarded by Dublin City University.

Funding

This project is co-funded by the HEA Technological Universities Transformation Fund, Biodesign Europe (DCU) and DkIT.

The successful candidate shall receive a postgraduate stipend of €16,000 per annum, plus fees and a contribution to their direct research project costs. The duration of this PhD studentship is 36 months. Terms and conditions will apply.

Eligibility

Eligibility Criteria:	Essential	Desirable
Qualifications	2:1 Honours Degree (or equivalent) in a Computing related discipline	MSc in a Computing related discipline
Experience/knowledge		<ul style="list-style-type: none">• Have some knowledge of either medical device software of AI.• Have published papers

It is also a requirement that any applicant whose first language is other than English must have a certified English language proficiency of at least IELTS 6.5 or equivalent.

Application process

Please send a copy of your CV and a 1-page cover letter to orla.lynch@dkit.ie no later than **4.00 pm on Wednesday 20th Oct 2021**. Applications received after this time will not be considered.

Please use the position reference **"01BIODESIGN2020"** in the subject title.

Short listed candidates will be invited to interview.

Informal inquiries should be sent to; fergal.mccaffery@dkit.ie

Please note, canvassing will render an applicant ineligible.