**Research Assistant wanted**

**Project Description:** Sponsored by Enterprise Ireland, 3DMA brings together an interdisciplinary team to develop microneedle devices for transdermal drug delivery. The project aims to address some major challenges faced in this sector, such as applicable dosage, manufacturing cost, ease of use. The project will develop partnership with some connected companies and endeavour to commercialise the devices. The project hosts some state-of-the-art machines, including an OCT for monitoring skin-microneedle-drug interactions, Keyence VHX5000 microscope, micro 3D printer, etc. A spin-out company will be established to commercialise the microneedle devices.

**Job Descriptions:** The project is now recruiting a full-time or part-time Research Assistant. This is a research focused role, where you will conduct a specified programme of research supported by research training and development under the supervision and direction of a Principal Investigator. The research includes manufacturing of dissolving microneedles, in-vitro and in-vivo testing of microneedle devices, skin modelling and drug delivery mechanism study. Applications are sought from excellent candidates with a background in some, or all, of transdermal drug delivery, skin histology and drug diffusion mechanism, general medical practice. This position will involve significant interaction with industrial partners.

This post offers a 3-month + 9-month contract with annual salary €31,462, started from 15th Sep 2024. Successful candidate has the opportunity to renew his/her contract afterwards depending on the success of project entering the next stage or setting up a spin-out company.

**Centre introduction:** The UCD Centre of Micro/nano Manufacturing Technology (www.mnmt-dublin.org) has been established to deliver high-impact, innovative science and engineering research. MNMT-Dublin has particular focus on development of medical devices enabled by its featured technologies and machines in high precision manufacturing. The Centre brings together a multi-disciplinary team of over 20 PhD and Post-doc researchers in medical devices, biomaterials and manufacturing engineering, in fundamental and translational research.

**Selection Criteria:**

* Bachelor or above in dermatology, clinical medicine, medical device, or a related discipline.
* Prior experience in transdermal drug delivery or medical device development.
* A demonstrated commitment to research and innovation.
* A demonstrated capability of working in a transdisciplinary team.
* An understanding of the operational requirements for a successful research project
* Excellent Organisational and Administrative skills including a proven ability to work to deadlines.
* Knowledge and experience in in-vivo experiments.
* Experience in microneedle transdermal drug delivery.
* Experience with industrial engagement.
* Proactive and dedicated to research.
* Available from 15th Sep 2024

**Desirable:**

Please send your CV to the PI: **Jufan.zhang@ucd.ie**