

The topic for the PhD research is the **development of novel optical sensors for evaluation of high intensity focused ultrasound (HIFU) therapeutic systems**. This will involve the design and fabrication of optical and holographic devices that can respond to the HIFU acoustic field and energy output, with a view to aiding in the planning, ablation visualization and verification of HIFU therapies. The successful candidate will be based in the IEO Centre at TU Dublin (<https://www.tudublin.ie/research/discover-our-research/research-institutes-centres-and-groups/ieo/>). Candidates will ideally have some knowledge of photonics, optics and/or ultrasound physics, but this is not necessarily essential.

The 4-year PhD project is eligible for funding from the **MedDevDoc Doctoral Training Programme** (details here: <https://curamdevices.ie/curam/research/meddevdoc/>), as part of the Marie Skłodowska-Curie Actions (MSCA) Programme. The scholarship itself is generous, with a **living allowance of €2058 per month**, and also offers mobility and family allowances. The PhD will also include a 6-month secondment to a non-academic partner.

To be eligible for the MedDevDoc programme, **applicants must meet the following requirements:**

1. Have a 1st class or a 2:1 honours first degree, and have/are due to obtain a Master's in Biomaterials, Biomedical Engineering, Tissue Engineering, Cell Biology, Biology, Biochemistry, Medical Physics or related disciplines.
2. Comply with the MSCA mobility rule - must not have resided or carried out their main activity (e.g., studies, work, research) in the country of the host organisation (i.e. Ireland) for more than 12 months in the last 3 years immediately prior to the Call deadline.
3. All applicants for whom their first language is not English must present an English language qualification taken within two years before the application.

The call for applications to the MedDevDoc Programme is now open, and the deadline is 15th April 2024; however, I would strongly encourage anyone interested in applying to contact me ASAP to discuss the project (dervil.cody@tudublin.ie).

Please let me know if you have any questions on the above, and thanks in advance for sharing this on my behalf.