



Advanced Materials and BioEngineering Research Centre (AMBER) at Trinity College Dublin

EPSRC and SFI Centre for Doctoral Training in the Advanced Characterisation of Materials

(CDT-ACM) PhD Studentships

Imperial College London, University College London & Trinity College Dublin

This advert is for Trinity College Dublin only

Duration: 48 months (starting on 1st September 2022)

Imperial College London, University College London (UCL) and Trinity College Dublin jointly offer a number of four-year fully-funded PhD studentships as part of the CDT-ACM. Successful applicants will be registered at either Imperial College London, University College London or Trinity College Dublin. This advert is for Trinity College Dublin applicants only.

The Advanced Materials and BioEngineering Centre (AMBER) is inviting applications for 7 PhD studentships to commence 1st September 2022. The studentships are part of the joint Science Foundation Ireland (SFI)-EPSRC funded Centre for Doctoral Training in the Advanced Characterisation of Materials (CDT-ACM) programme. SFI funding covers the stipend and fees as well as a research budget. Applicants must have been resident in an EU member state for 3 out of the last 5 years to be eligible for funding through this programme.

The CDT-ACM programme trains new scientists to become experts in the application of advanced analytical techniques for materials development. It offers training in the application of state-of-the-art characterisation techniques for materials challenges in five thematic key areas of societal importance:

- 1) Energy Materials
- 2) Biomaterials and Regenerative Medicine
- 3) Engineering Materials
- 4) Electronic and Magnetic Materials
- 5) Instrumentation & Technique Development

Each research project will involve experts from at least two of the universities, and you will spend time at all sites during your research and training. You will also undertake a placement for at least one month at a leading international university, research institute or industrial partner. Specially designed training modules in characterisation will be interwoven with your PhD research project, and you will also receive professional development training. Students will take taught courses at the London universities during the first three months of their training and will spend two weeks in Dublin afterwards for further training at the Advanced Microscopy Laboratory (AML).

The world-leading research that you will be involved with will be closely linked with real-world applications, as the projects will be aligned with the priorities of our network of industrial partners. On graduation you will be ideally qualified to follow a career path either in academia or industry. Our training philosophy is that our graduates will provide the innovation and creativity required to lead the world in the development, characterisation and manufacture of new materials, making a significant contribution to the quality of life of future generations.

The CDT seeks candidates for September 2022 entry. You will hold, or be expected to achieve, a Master's degree or a 4 year undergraduate degree at 2:1 level (or above) in a relevant subject, e.g. Material Sciences, Physics, Chemistry, Earth Sciences, Mechanical, Electrical or Chemical Engineering.



If you are interested in both locations you will need to send two separate applications.

Research projects on offer are diverse and successful applicants will choose a project following discussions with project supervisors. Projects on offer for the 2022 cohort are available on the CDT-ACM [website](#).

To make informal enquiries please contact Sandra Ellis on cdtacman@tcd.ie Information on how to apply can be found on the CDT-ACM [website](#).

Applications will be handled in two stages:

Stage 1: Suitable applicants will be interviewed by staff members of the CDT-ACM.

Stage 2: Successful applicants will be invited to make a formal application at Trinity College Dublin.

FUNDING CRITERIA FOR TCD APPLICANTS:

For EU students SFI funding covers fees and a stipend of €18,500 per annum together with a research budget for travel and consumables. Applicants must have been resident in an EU member state for 3 out of the last 5 years to be eligible for funding through this programme. International students are welcome to apply, however they must cover the international fee difference and provide evidence of ability to cover these costs at the application stage. For more details on eligibility check <https://www.tcd.ie/study/international/how-to-apply/>

Closing date: Tuesday 14th December 2021

Interviews will take place in early February 2022

The AMBER Research Centre, as a community of researchers, welcomes its responsibility to provide equal opportunities for all. We are actively seeking diversity in our research teams and particularly encourage applications from under-represented groups.

All three universities are committed to equality and valuing diversity. Imperial College London and UCL are Athena SWAN Silver Award holders and Stonewall Diversity Champions. Trinity College Dublin is an Institutional Athena Swan Bronze Award holder and a signatory to Diversity Charter, Ireland, Imperial College London is a Two Ticks Employer and is working in partnership with GIRES to promote respect for trans people. UCL holds a race equality bronze award. Trinity College Dublin was awarded Public Sector Employer of the Year at the Workplace Equality Index Awards 2016.

