

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

**PhD Studentships**

**Centre for Doctoral Training in Advanced Characterisation for Materials (CDT ACM)**

**Duration: 48 months (starting on 1<sup>st</sup> September 2020)**

The Advanced Materials and BioEngineering Centre (AMBER) is inviting applications for six (6) PhD studentships to start in September 2020. These studentships are part of the joint Science Foundation Ireland (SFI)-EPSRC funded Centre for Doctoral Training in Advanced Characterisation for Materials (CDT ACM) programme. The CDT ACM programme is a collaboration between Trinity College Dublin, Imperial College London and University College London (UCL). Successful applicants will be registered at Trinity College Dublin but will be required to spend their first semester in London attending lectures, receiving expert training and completing coursework with their UK colleagues at Imperial and UCL. Further short visits are scheduled during years 2-4 of the programme. *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 PhD programme offers training in state-of-the-art characterisation techniques applied to materials challenges in key thematic areas of societal importance such as Energy, Information Technology, Nanomaterials, Healthcare and the Environment. The first semester will be based in London and will focus on bespoke core courses developed by the staff jointly at Imperial, UCL and Trinity College. After the initial three months of the programme, following discussions with project supervisors, enrolled students will choose a research project to pursue for the remainder of the four years. Projects will be available in the following areas: Materials for ICT, Materials for Energy, Biomaterials and Regenerative Medicine, and Engineered Functional Materials. In all cases the primary academic supervisor will be based at Trinity College but in addition there will be a secondary co-supervisor in Imperial/UCL. Specially designed training modules in characterisation will be interwoven with your PhD research project as well as professional development training in line with a standard structured PhD programme.

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.

This CDT seeks candidates for September 2020 entry. The ideal applicants will have a 1st Class or strong 2.1 Honours Bachelor's degree in Physics, Chemistry, Materials Science or related disciplines. The researcher will work closely with other members of a multidisciplinary project team. Excellent time-management, written and oral communication skills are essential.

To make informal enquiries please contact Sandra Ellis <[ellissa@tcd.ie](mailto:ellissa@tcd.ie)>

***Applications will be handled in two stages:***

**Stage 1:** : Send a full CV, including the marks (%) for all (undergraduate) modules completed to date, the names and contact details of two referees, as well as a covering letter, to Sandra Ellis, CDT Programme Manager, [ellissa@tcd.ie](mailto:ellissa@tcd.ie). Applications that do not provide all this information will not be considered.

**Stage 2:** Suitable applicants will be interviewed and, if successful, invited for enrolment.

Closing date: 6<sup>th</sup> January 2020

Interviews will take place from 24<sup>th</sup> to 28<sup>th</sup> February 2020

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.