Government funded PhD Studentship in Advanced Materials for Additive Manufacturing

Applications are invited for a funded PhD studentship tenable in the Faculty of Computing & Engineering at the Jordanstown Campus.

Project Summary:

This project is a collaboration between Ulster University and Exeter University on the development of novel, high performance, nanocomposite feed materials for Additive Manufacturing (AM). The field of AM, also known also as 3D Printing, has expanded significantly over the last couple of decades across virtually all-industrial sectors due a number of key advantages that traditional manufacturing just cannot offer. These include mass customisation, geometrical complexity, tool-less manufacture and sustainable manufacturing. Among the applications are medical devices, aerospace and defence components and household appliances. The worldwide revenue from AM is expected to grow from $3.07 billion in 2013 to $12.8 billion by 2018, and exceed $21 billion by 2020. This project will develop new, advanced engineering materials for AM. The research student will develop and test these materials using state-of-the-art facilities in the Northern Ireland Advanced Composites and Engineering Centre in Belfast (NIACE). S/he will work as part of a larger project research team (Ulster and Exeter) and also work alongside a team of established researchers and PhD students working in composites engineering.

Entrance Requirements:

Candidates should have ordinary UK residence to be eligible for both fees and maintenance. Non UK residents who hold ordinary EU residence may also apply but if successful will receive fees only. All applicants should hold a first or upper second class honours degree in Engineering, Materials Science or a related area. Applications will be considered on a competitive basis with regard to the candidate's qualifications, skills experience and interests. Successful candidates will enrol as soon as possible, on a full-time programme of research studies leading to the award of the degree of Doctor of Philosophy.

The studentship will comprise fees (Home and EU) together with an annual stipend of £14,296 and will be awarded for a period of up to three years subject to satisfactory progress.

If you wish to discuss your proposal or receive advice on this project please contact:-

Professor Eileen Harkin-Jones e.harkin-jones@ulster.ac.uk

Procedure

For more information on applying go to ulster.ac.uk/research

Apply online ulster.ac.uk/applyonline

The closing date for receipt of completed applications is 11th November 2016

Interviews will be held in November 2016.