Brief discription for NextCOMP PhD opportunities

Eligibility: UK, Irish citizens, and EU citizens with settled status qualify as home students, and exceptional International Students.

Funding: Various sources dependent on status, primarily from EPSRC Doctoral Training Partnership (DTP), or from Departmental Scholarships.

Start Date: Available now

PhD Topic Background/Description

We are seeking talented researchers in materials and composites to join the highly creative and interdisciplinary NextCOMP programme team which is fundamentally redesigning high performance composite materials.

A collaboration between Imperial College London and the University of Bristol, the £6m NextCOMP programme focusses on the challenge of improving the absolute performance of composites in compression, both to address practical limitations of current materials, and as a demonstration of the value of quantitative hierarchical materials design. The work will develop and embed structure at every lengthscale from the molecules of the matrix to the lay-up of final components, using new constituents and new architectures, designed within a new analytical framework.

The successful candidate would be joining an established team of academics, working alongside post doctorial reseach associates across both institutions with access to state-of-the-art equipment. It offers opportunities for engagement with the National Composites Centre, and with our extensive group of industrial partners as well as leading international advisors and collaborators. We expect the candidate to be working on collaborative projects with Imperial College London/University of Bristol which we will disseminate nationally and internationally.

The successful candidate(s) will be based at either Bristol Composites Institute, or Imperial College London, both world-leading research centres at the heart of the UK Government Composites Strategy.

Candidate Requirements

Applicants must hold/achieve a minimum of a master's degree (or international equivalent) in a mathematics, or engineering discipline. Applicants without a master's qualification may be considered on an exceptional basis, provided they hold a first-class undergraduate degree. Please note, acceptance will also depend on evidence of readiness to pursue a research degree.

Further information about English language requirements can be sourced on individual Instituaional websites.

Basic skills and knowledge required

We are seeking to appoint PhD students with a genuine passion for research to join this dynamic team. The ideal candidate(s) will be a highly creative materials scientist/engineer, with a good understanding of solid mechanics and fibre reinforced composite materials. They will be able to contribute to idea generation, and new ways of looking at composite materials to design the components of the future.

Informal enquiries

For informal enquiries to join the Team please contact NextCOMP via email, info@nextcomp.ac.uk.

We welcome applications from all members of our community and are particularly encouraging those from diverse groups, such as members of the LGBT+ and BAME communities, to join us.