Engineering Doctorates in Composite Material, Mechanics, Design and Manufacture

**Type of award**  Engineering Doctorate

**Department**  Aerospace, research group BCI

**Scholarship Details**  An enhanced stipend of £23,730 for 2023/24, a fee waiver and generous expenses for the successful candidates.

**Duration**  4 years

**Eligibility**  Home/EU (UK settled status) with permanent UK residency

**Start Date**  Flexible from Sept 2023

Opportunities for doctoral studies at Bristol Composites Institute and National Composites Centre.

The NCC has supported the Industrial Doctorate Centre (IDC) in Composites Manufacture for many years. We are now seeking high calibre candidates to join our IDC and take up one of five new studentships. You will be based at the National Composites Centre (NCC) and will work on pre-commercial, yet industrially focused, cutting-edge research, whilst following a taught programme at University of Bristol. The projects will cover a wide range of NCC’s strategic areas with a focus on sustainability and/or digital manufacturing.

We are seeking highly motivated and committed individuals with an eye on the future, who are interested in conducting stimulating and essential industrial research and have a passion for finding sustainable solutions in areas such as:

- Low-carbon concrete.
- Through-Life Damage and Environmental Assessment.
- Recycled Fibre/Matrix Interfacial Properties.
- Composite Shielding against Directed Energy Weapons.
- High-Rate Automated Deposition of CFRP for rapid production of aircraft wings.
- Advanced Tooling for Aerospace Composites.
- Large Scale Rapid Infusion of wings.
- In-Process Material Inspection and Verification of Aerospace Parts.

For full details of each project visit our [website](#)

URL for further information (if applicable): [IDC EngD @ NCC](#)

**Further Particulars**

**Candidate Requirements**

Applicants must hold/achieve a minimum a 2:1 MEng or merit at Masters level or equivalent in engineering, physics or chemistry. 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.
If English is not your first language, you need to meet this profile level:

**Profile E**
Further information about [English language requirements and profile levels](#).

**Basic skills and knowledge required:**
Essential: Excellent analytical skills and experimental acumen, commensurate with a good degree in engineering or equivalent. Ability to communicate complex ideas to a non-technical audience

Desirable: A background understanding in one or more of the following:
- Some industrial experience or internship
- Interest in engineering design
- Awareness of environmental impact of engineering
- Interest in outreach and developing community

**Scholarship Details**
We are offering an enhanced stipend of £23,730 for 2023/24, a fee waiver and generous expenses for the successful candidates.

For eligibility and residence requirements please check the [UKRI UK Research and Innovation](#) website

**Informal enquiries**
Please email Professor Janice Barton ([janice.barton@bristol.ac.uk](mailto:janice.barton@bristol.ac.uk))

**Application Process**
If you are interested in making an application, please complete and submit the [online form](#) and send your CV and transcript of results to [Helen.Howard@bristol.ac.uk](mailto:Helen.Howard@bristol.ac.uk).

Selected candidates will be invited to attend an informal interview with NCC prior to candidates being invited to formally apply to the University following approval.

The initial closing date for applications is **10 February 2023**.

For questions about eligibility and the application process please contact the Industrial Doctorate Centre [idc-composites@bristol.ac.uk](mailto:idc-composites@bristol.ac.uk)