Applications are invited for **four-year fully-funded PhD studentships**, there are 12 Studentships available, starting in October 2019 at either Imperial College London, University of Cambridge, University of Bristol, The Open University or Bangor University.

Nuclear power generates the largest fraction of low-carbon electricity in the UK and has a positive impact on the security and stability of our nation’s energy supply. As the UK curbs fossil fuel consumption and carbon dioxide emissions, includes a greater proportion of renewable energy, and at the same time electrifies road transport and decarbonises central heating, nuclear power assumes a vital role in any future energy mix as a source of low-carbon baseload electricity.

To ensure nuclear is an important part of a **greener and securer future**, the skills shortage needs to be addressed, new build and decommissioning costs need to come down, geological disposal must be explored, and the UK has to have the skills to contribute meaningfully to cutting-edge technologies, such as fusion and Gen IV reactors.

The Nuclear Energy Futures CDT places **student experience** at the heart of the programme. We listen to your research interests and link you to stimulating PhD projects **supported by a team of industry and academic experts**. Owing to the breadth of the CDT and the wide range of industry sponsors involved we can support PhD projects in:

- Reactor technology
- Structural integrity
- Nuclear Materials
- Nuclear Waste Management, Decommissioning and Disposal
- Fusion
- Policy

Projects can also incorporate cutting-edge research in machine learning, robotics and space propulsion.

The CDT programme offers PhDs integrated with seven courses, as well as optional modules depending on the research being undertaken. Occurring in parallel with PhD research over the first two years, the modules intend to endow graduates with (i) the regulatory understanding and scientific and technical knowledge required of twenty-first century nuclear professionals; (ii) a clear and comprehensive view of the entire nuclear fuel cycle and beyond; and (iii) skills and behaviours to work collaboratively and foster innovation.

The modules will employ an **innovative mixture of teaching and learning methods** and exploit the expertise of each partner university. The delivery will combine three residential courses with four blended learning modules combining human-moderated distance learning and days of face-to-face contact.

The CDT also provides expenses-paid cohort-building activities that will take you **across the world**. The cohort-building activities are as follows:

- Romanian Institute for Nuclear Research (Romania, Year 1)
• SCK-CEN (Belgium, Y2)
• Springfields and Sellafield (UK, Y3)
• Idaho and Oak Ridge National Laboratories (US, Y4)

We are an inclusive and diverse CDT: apart from the minimum entry requirement, we are determined that no one that is motivated to join the programme should be stopped from doing so. Our courses are supported by distance learning so you can learn around your schedule, and there are options for part-time and flexible study if you have existing commitments.

More information can be found on our website.

Requirements:

Applicants should hold or expect to obtain at least an upper second (2.1) degree (or international equivalent) in a relevant subject (e.g. Materials, Mechanical, Civil, Electrical, Chemical Engineering, Physics, Chemistry or Earth Sciences).

We will also consider any professional experience in the nuclear industry or relevant sector.

Funding eligibility:

Home/EU students

Fully-funded EPSRC studentships are available. This includes fees, a UKRI stipend, and a research and consumables budget. Studentships from this funding stream require you to either be a UK citizen or a European Union national who has been resident in the UK for at least 3 years prior to your CDT studentship.

International students

Funding is unavailable to international students for this programme. International students should only apply if they are self-funded or have a scholarship from a different source.

Application

Be part of a better energy future: Apply now.

Closing date August 5th 2019.