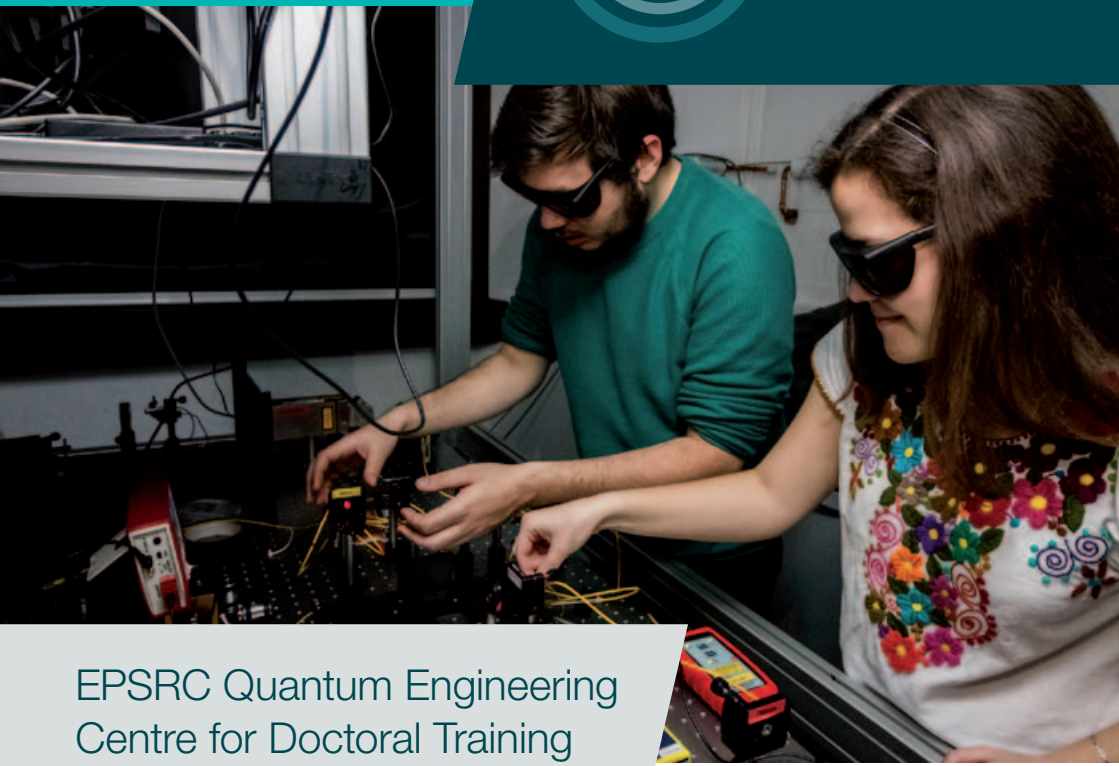
University of BRISTOL

Centre for Doctoral Training in Quantum Engineering



EPSRC Quantum Engineering Centre for Doctoral Training

PhD in Quantum Engineering

Underpinned by world-class research and industrial expertise, this four-year doctoral programme offers a stimulating experience for those seeking academic excellence and careers in quantum engineering and quantum technologies.

As a quantum engineer, you will become fluent in quantum mechanics, photonics engineering, systems engineering and computer science, as well as other physical sciences. Through world-leading academic research, as well as partnering with some of industry's most important companies, the Quantum Engineering CDT in Bristol has created an environment that delivers a unique training and development experience.

The programme

Our strong network of academic and industrial partners provides the opportunity to collaborate on cutting-edge science and technological innovation. Students will also be supported to develop a range of complementary skills including entrepreneurial business skills, knowledge of commercialisation, creative thinking, teamwork, communication skills and project management.

Our programme has been designed in collaboration with a large number of academic and industry experts. It encompasses theoretical understanding and the practical application of quantum physics and offers a breadth of opportunities for developing your research interests and skills.

Highlights include:

- Guided and self-inspired research with a broad range of both first-year and PhD research projects
- A cohort approach to learning, enabling students to learn from each other in a rapidly evolving field
- Practical application as well as a sound theoretical understanding of quantum physics
- Complementary skills – such as commercialisation and science communication - necessary for academic and industrial excellence
- Access to an international network of world-class academic and industrial collaborators
- Support for academic and industrial secondments
- Student-led organisation of an annual conference
- Access to a broad technology base and state-of-the-art facilities.

Whether you're an engineer who is curious about quantum information, a physicist with a passion for technology, a mathematician interested in applications, or anything in between, this programme is the next step to a successful career in quantum technologies.

Visit our website for more information on the programme, how to apply and upcoming open days

Stay connected

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