Join the world's largest academic ultrasonic engineering unit in 2022 at FUSE CDT: the Centre for Doctoral Training in Future Ultrasonic Engineering

Fully-funded 4-year PhDs in Ultrasonic Engineering open for application until 31st January 2022

Ultrasonics is the science and technology of sound at frequencies above the audible range. It is vitally important across many sectors from robotics in the energy industries to medical imaging, with an annual market value of $45 billion. The universities of Glasgow and Strathclyde have combined their internationally leading research expertise across medical and industrial ultrasonics to create the Centre of Doctoral Training in Future Ultrasonic Engineering.

We are seeking UK, EEA and International doctoral students to join FUSE CDT and work with over 40 external organisations - from innovative micro-companies to exciting multinationals - on real and challenging projects, enabling systematic training of a new generation of leaders in ultrasonics research, engineering, science and product development.

Programme and benefits

You will benefit from:

- a four-year, tax-free stipend of approx. £15,840 per annum
- a year's foundation training in ultrasonic engineering
- a PhD or EngD pathway
- a three-year research project in collaboration with at least one of the CDT partners, which includes SMEs, the NHS, and multinational corporations
- internship placements with partners
- industry speakers and visits introducing real-world problems
- professional skills development in data management, entrepreneurship, project management and communications
- backing for professional registration as a Chartered Engineer with iMechE MPDS
- option to gain STEM Ambassador status

Key areas for applied ultrasonics include:

- biomedical imaging and therapies
- remote sensing and communications
- non-destructive evaluation
- flow measurement
- Sonar and underwater navigation
- product design and nanofabricated devices
- robotics, haptics, and microelectronics
- drilling, cavitation, and power applications

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Successful past applicants to FUSE CDT hold degrees in engineering (acoustical, aerospace, biomedical, electronic and electrical, mechanical), mathematics, medicine, nuclear technology, product design, software engineering, sensor and imaging systems and theoretical physics.

Funding and eligibility

Funding is available to cover tuition fees for UK Home applicants and a stipend at the Research Council rate (£15,840 for 2022/23). To be eligible for a fully-funded Home studentship, you must be:

- a UK citizen (who has been resident in the UK/EEA/Switzerland/Gibraltar for the past three years)
- an EU citizen with 'settled' or 'pre-settled' status in the UK.
- an applicant with 'indefinite leave to remain or enter' the UK

We are also offering **one** fully-funded International studentship (providing a stipend and all international tuition fees) at the University of Glasgow with a deadline of 31st January 2022.

We also accept international applicants that can self-fund or bring external funding to cover their tuition and living costs.

Applicants must have or expect to obtain the equivalent of a 1st or 2.1 degree in an appropriate engineering or science discipline.

Equality, Diversity and Inclusion

FUSE has placed EDI at the heart of its activities, in order to achieve excellence in research and enhance the societal and economic impact of our work. In this way we ensure that we build teams of researchers of diverse backgrounds, all working in an inclusive environment. Likewise, the universities of Glasgow and Strathclyde, and our external partners are fully committed to EDI principles.

We offer part-time studentships, funding to champion applications from under-represented backgrounds, SIMD bursaries, childcare support for conference attendance, flexible working for carers, as well as promoting a work-life balance.

How to apply

Applications must be submitted through the University of Glasgow online application system with a cover letter, CV, two references and your transcript/degree certificate.

Application deadline: 31st January 2022

Please visit our website for further details about the FUSE CDT and how to apply.

For enquires, please email fuse-cdt@glasgow.ac.uk

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