CDT-EI EPSRC CENTRE for Doctoral Training in Embedded Intelligence

Artificial Intelligence supported medical imaging diagnostic & training system

We are seeking excellent candidates with interests in, Artificial Intelligence (AI), machine learning and deep learning who want to study at a top 10 UK research-led University whilst working with industrial partners.

This project is part of the EPSRC Centre for Doctoral Training in Embedded Intelligence. In choosing this project you'll work alongside academics that are leaders in their field and benefit from a four-year studentship award that includes an enhanced EPSRC tax-free annual stipend of at least £17,777 per annum and UK/EU tuition fees. Furthermore, you will have access to a personal training budget of £10,000, which is in addition to a research budget and support from academic members of staff and industrial partners.

Loughborough University aims to ensure equality for men and women. We follow the principles of the Athena SWAN Charter by wishing to attract, support, and reward women in STEMM at all career stages.

Project Details:

The studentship is co-sponsored by Hologic, you will join a growing research group within the Department of Computer Science. The successful student will enhance mammographic interpretation training by learning from annotated training samples to create a computer aided training system. They will have access to a large number of cases of different imaging modalities and pathology and expert diagnostic opinion, and the project will investigate the application of the state of the art AI algorithms in mammographic interpretation including deep learning algorithms. This project will also evaluate whether the developed training system will enable a novice to gain experience of the field of mammography quickly and effectively to enable them to participate in mammography screening. Novice readers recruited for the study will include newly trained radiographer film readers, specialist registrars and locum radiologists.

Find out more:

www.cdt-ei.org

Entry requirements:

Applicants should have, or expect to achieve, at least a 2:1 Honours degree (or equivalent) in related computer science or engineering degree with strong Matlab programming skills. A relevant Master's degree and/or experience in medical imaging is desirable.

Applicants must meet the minimum English Language requirements, details available on the website.

Funding information:

The studentship is for four years and provides a tax free stipend of £17,777 per annum for the duration, plus tuition fees at the UK/EU rate. Due to funding restrictions, this is only available to those who are eligible to pay UK/EU fees. In order to qualify for a full award, all applicants must

meet the EPSRC eligibility criteria including the minimum UK residency requirement https://www.epsrc.ac.uk/skills/students/help/eligibility/.

Contact details:

Informal enquires about the research project should be made to;

Name: Dr Yan Chen
Email address: y.chen@lboro.ac.uk
Telephone number: 01509 635739

Enquiries about the application process and CDT programme can be made to cdt-ei@lboro.ac.uk or visit the website www.cdt-ei.org. For answers to frequently asked questions about the CDT, visit the website.

How to Apply

All applications should be made online at http://www.lboro.ac.uk/study/apply/research/. Under programme name, select "**CDT Embedded Intelligence Wolfson School"**

Please quote reference number: 2018CDTEICS3

Application deadline: 15th July 2018.