Amazon Web Services (AWS) Fully Funded Lighthouse Doctoral Scholarship

4-year studentship, in conjunction with the CDT in Autonomous Intelligent Machines & Systems (AIMS) (subject to eligibility requirements below).

Start Date: 1st October 2021

About AIMS - Autonomous systems powered by artificial intelligence will have a transformative impact on economy, industry and society as a whole. Our mission is to train cohorts with both theoretical, practical and systems skills in autonomous systems - comprising machine learning, robotics, sensor systems and verification- and a deep understanding of the cross-disciplinary requirements of these domains. Industrial partnerships have been and will continue to be at the heart of AIMS, shaping its training and ensuring the delivery of Oxford's world-leading research in autonomous systems to a wide variety of sectors, including smart health, transport, finance, energy and extreme environments. Given the broad importance of autonomous systems, AIMS provides training on the ethical, governance, economic and societal implications of autonomous systems. For more information regarding the AIMS programme, see our web pages at: aims.robots.ox.ac.uk.

The University of Oxford and Amazon Web Services (AWS) announced a new strategic collaboration on 1 May 2020 to build a portfolio of new research projects relating to artificial intelligence (AI), robotics, cyber-physical systems and human-centred computing. The gift from AWS also funds the University's new Lighthouse Doctoral Scholarship Programme. 25 full doctoral scholarships will be awarded to support a new generation of researchers accessing cloud-native tools and technology for research.

The Lighthouse Doctoral Scholarship programme is an initiative of Oxford University's MPLS Division and AWS providing funding to 25 PhD students 2020-2022 who are applying to the Centre for Doctoral Training in Autonomous Intelligent Machines and Systems, or to the research laboratories of the supervisors in the Oxford – Singapore Human-Machine Collaboration Initiative. We aim to revolutionize approaches to world-leading research, education, innovation and commercialisation in human-machine collaboration technologies by providing a platform for a large scale, multinational research-innovation-venture initiative in logistics, high tech (robotics, AI/ML, IoT, secure autonomous systems), and emergency response services.

The Lighthouse Doctoral Scholarships cover tuition and college fees in full, as well as a monthly stipend.

The Lighthouse Doctoral Scholarships are awarded on the basis of outstanding academic merit and potential, to graduate students from all around the world.

Please also see: http://www.ox.ac.uk/news/2020-05-01-oxford-university-and-amazon-web-services-create-test-bed-cloud-based-research

Eligibility

This studentship is available to all applicants.

Prospective candidates will be judged according to how well they meet the following criteria:

- Applicants are normally expected to be predicted or have achieved a first-class or strong upper second-class undergraduate degree with honours (or equivalent international qualifications), as a minimum, in computer science, engineering, physics,

mathematics, statistics or other related disciplines. A previous master's qualification is not required.

- Excellent English written and spoken communication skills

Candidates will also need to demonstrate a broad interest in some or all of the four AIMS themes:

- robotics, vision and perception
- machine intelligence and multi-agent systems
- control and verification
- pervasive networked sensing and actuator systems

The deadline for applying is Friday 22nd January 2021. Candidates are therefore recommended to apply as soon as possible.

If you have any questions about the DPhil Studentship, please email wendy.adams@eng.ox.ac.uk

Please quote **AIMS-CDT-AWS** in the studentship reference box on the application form.

aims.robots.ox.ac.uk