

Interdisciplinary 4-year Doctoral Programme

- Funded by BBSRC and NERC
- ~55-60+ students per annum
- 25% iCASE co-supervised by non-academic partners in an Open Innovation Industrial Consortium (Open-IIC) & Collaborative partners

Five broad-ranging themes

- Climate & Earth
- Biodiversity and Sustainability
- Animal and Human Health
- Rules of Life
- Transformative Technologies

Apply via the University of Oxford, Oxford Brookes
or The Open University – **Deadline January 29th**

www.ilesla.ox.ac.uk



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BROOKES
UNIVERSITY

The Open
University

THE
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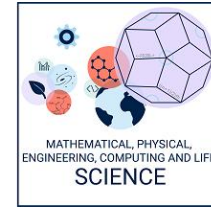
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UKRI
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MEDICAL
SCIENCES
DIVISION



EIT Centre for Doctoral Training in the Fundamentals of AI

The [CDT in Fundamentals of AI](#) will undertake foundational developments in fundamentals of AI that have potential to impact some of humanity's most challenging and enduring problems.

The programme will provide students with training in both cutting-edge AI research methodologies and the development of business and transferable skills.

The CDT will be based at MPLS Doctoral Training Centre. The CDT will recruit 20 students per year, and we have full-funding available for home and overseas candidates.

Students will undertake a significant, challenging and original research project, leading to the award of a DPhil.

Deadline for applications is Wednesday 8th January 2025

For more information visit <https://www.dtc.ox.ac.uk/foai-cdt> or contact foaicdt@dtc.ox.ac.uk

Intelligent Earth

UKRI AI Centre for Doctoral Training in AI for the Environment

Interdisciplinary 4-year PhD training programme with **two entry streams**: for numerate environmental science backgrounds and for AI/ML, maths, statistics, physics backgrounds.

Five closely connected themes:

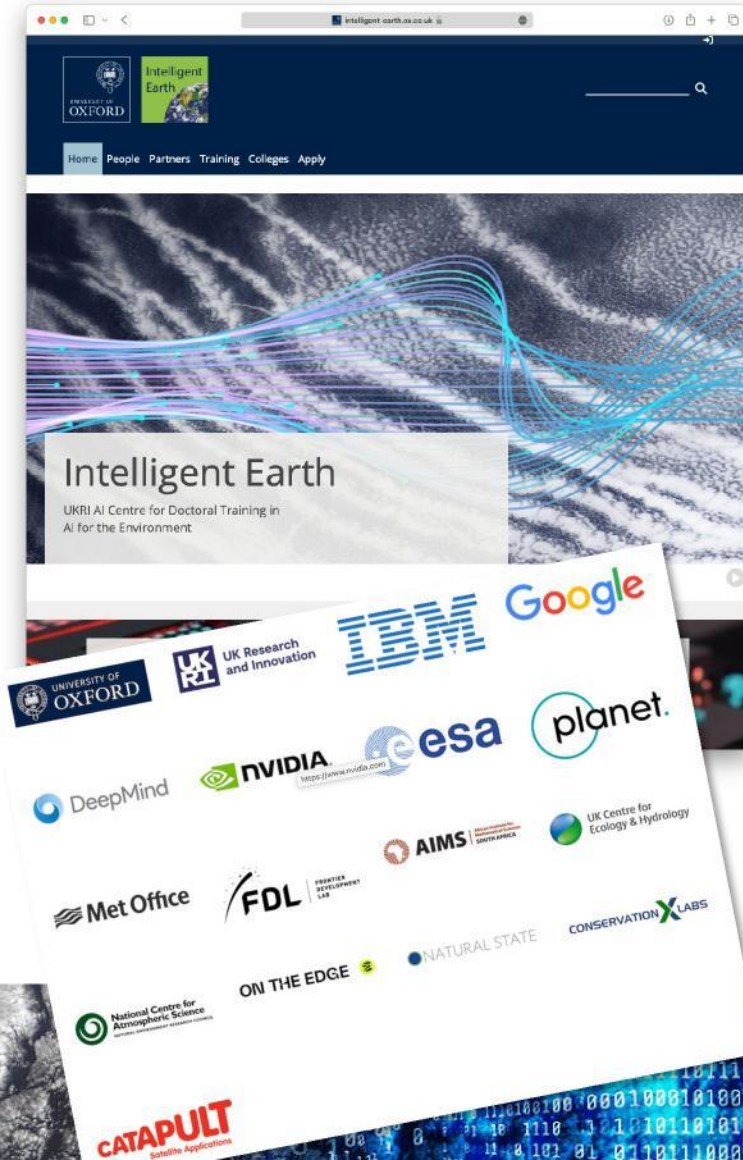
1. Climate
2. Biodiversity
3. Natural hazards
4. Environmental solutions (e.g., nature recovery, carbon stock taking, agriculture & food, energy)
5. Core AI/ML research on complex environmental data

• **Intrinsically interdisciplinary** for each PhD project:

- Joint supervision between environmental and AI academics from the CDT departments
- Additional non-academic advisor from partners, who also serves as host for a non-academic secondment
- Primary department and supervisor will be assigned based on the focus of the project and the background of the student

• **Deadline : 8th January 2025**

<https://intelligent-earth.ox.ac.uk>



• **Intelligent Earth CDT**

• **Philip Stier**



Centre for Ecologically Relevant Multiple Stressor Effects on Wetland Wildscapes



Projects will be supervised across at least 2 universities (above) and 1 non-academic partner

ecowild.site.hw.ac.uk

- Marine and freshwater wetlands are exceptionally biodiverse and critical for combating the climate emergency
- They are among the most threatened ecosystems globally, impacted by multiple environmental stressors
- Our understanding of these impacts is limited, thereby hindering conservation and restoration efforts, and impeding their potential as nature-based and bioengineered solutions
- The ECOWILD Centre for Doctoral Training programme has been designed to deliver the next generation of innovative researchers and conservationists needed to protect some of the Earth's most vulnerable and valuable ecosystems

DEADLINE: 6th January 2025

OXFORD CONTACT: michelle.jackson@biology.ox.ac.uk



Engineering Biology applies engineering principles to biology and aims to exploit our synthetic biology knowledge to drive the bioeconomy. The CDT will provide bespoke cohort-based training with a focus on how synthetic biology concepts and technologies can be translated into products with real-world impact.

The course starts with a training in the fundamentals of mathematics, biology, engineering and computing and team-based solving projects. Students complete two short research projects in their first year, one of which will develop into the substantive DPhil project.

This course is run jointly with the University of Bristol.

More information available here: <https://bit.ly/EngBioCDTOx>

Deadline: 8th January 2025



Engineering and
Physical Sciences
Research Council

StatML



EPSRC Centre for Doctoral Training in Statistics and Machine Learning

The Statistics and Machine Learning (StatML) Centre for Doctoral Training (CDT) is a four-year DPhil research course. It will train the next generation of researchers in statistics and machine learning, who will develop widely-applicable novel methodology and theory and create application-specific methods, leading to breakthroughs in real-world problems in government, medicine, industry and science.

Key Skills Areas

- Modern Statistical Theory
- Statistical Machine Learning;
- Causality; and
- Bayesian methods and computation.

Deadline for applications is Wednesday 8th January 2025

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EPSRC Centre for Doctoral Training in Autonomous Intelligent Machines & Systems (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, tracking of animals, energy and extreme environments.

Key Skills Areas

1. Machine Learning, as a unifying core;
2. Robotics & Vision;
3. Cyber-Physical Systems (e.g. sensor networks); and
4. Control & Verification.

Deadline for applications is Wednesday 29th January 2025

aims.robots.ox.ac.uk



Centre for Doctoral Training Mathematics of Random Systems

Training the next generation of interdisciplinary experts in
Probability, Stochastic Analysis and applications

The Centre for Doctoral Training in Mathematics of Random Systems: Analysis, Modelling and Algorithms is a comprehensive doctoral programme focused on probabilistic modelling, stochastic analysis and their applications

The CDT offers a 4-year comprehensive training programme at the frontier of scientific research in Probability, Stochastic Analysis, Stochastic Modelling, stochastic computational methods and applications in physics, finance, biology, healthcare and data science. In the first year, students follow four courses from across Mathematics, Statistics and Computer Science departments, as well as undertake a supervised research project, which then evolves into a PhD thesis.

Throughout the course, students participate in various CDT activities with their cohort, including a CDT social events, regular seminars, workshops and training in transferrable skills such as communication, ethics and team-working.
www.randomsystems-cdt.ac.uk Deadline: 8th January

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EPSRC CDT in Chemical Synthesis for a Healthy Planet (CSHP CDT)

DEPARTMENT OF
CHEMISTRY



**Green
Chemistry**
Centre of Excellence



A new 4-year DPhil/PhD Programme in Innovative and Sustainable Chemical Synthesis delivered jointly by the Universities of Oxford and York

This programme combines taught courses with an industry-co-supervised research project, focusing on sustainable chemistry to address global challenges in Health, Energy, Materials, and Food Security. Research will be based in the Chemistry Departments at Oxford or York, offering a comprehensive environment for innovative study.



Up to **16 fully-funded** places
(UKRI eligibility rules apply)



Application deadlines:
15 Nov & 29 Jan



Designed with and supported by
major pharmaceutical, materials &
agrochemical companies



<https://cshp-cdt.chem.ox.ac.uk>
cshp-cdt@chem.ox.ac.uk



The Central England NERC Training Alliance (CENTA)

The Central England NERC Training Alliance (CENTA) is a consortium of research intensive Universities and research institutes that are working together to provide excellence in doctoral research training.

CENTA encompasses research activities within three broad themes:

- Climate and Environmental Sustainability
- Organisms and Ecosystems
- Dynamic Earth



View projects on the website & apply to the University that is hosting the project

Deadline: January 8th 2025

<https://centa.ac.uk>



Wessex One Health DLA

New **PhD training programme** running 2025-2033
4 years including industry placement

- Focus: **Infection Science**
- PhD topics will be advertised on university websites in **mid Jan** with deadline for application 28th Feb 2025
- **Apply through Surrey or Sussex or Exeter universities**
- Other partners: **Pirbright Institute, APHA, UKHA, DSTL**

