





















Partnership & collaboration to meet industry challenges









EAST RIDING













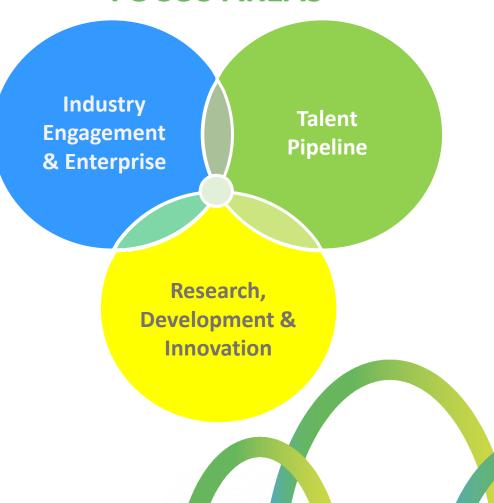






ACCELERATE. INNOVATE. COLLABORATE.





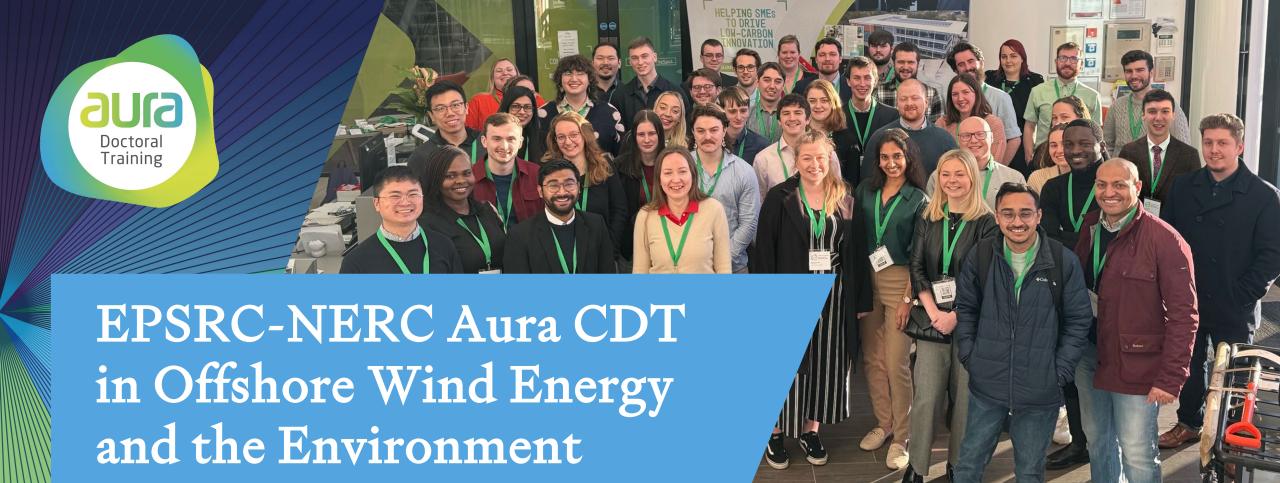




"Aura is an exemplar of how a region can harness the industry, local enterprises, innovation providers and skills agencies"

2019 Industrial Strategy Offshore Wind





Unique focus on environmental and engineering challenges

auracdt.hull.ac.uk/cdt1

Led by:













EPSRC/NERC Aura CDT in Offshore Wind Energy and the Environment

Developed with stakeholders to serve industry needs:

- £12m funding from industry, government and academia
- Over 65 PhD projects including 10 industry funded projects
- Investing in Equity,
 Diversity and Inclusivity.



Physics and Engineering of the offshore environment



Environmental impact, marine biology and aquaculture



Next generation materials and manufacturing



Operations, maintenance and human factors



Offshore wind energy integration



Big data, sensors and digitalisation

Our Panel



Louise Smith
Chair



Multi-task Learning for Engineering Dynamics Systems

Sarah Bee



Dax Blackhorse-Hull
Integration of wave
and offshore wind

energies



Sarah Dickson





Anna Weatherburn

Designing a Fracture &
Fatigue Resistant
Bio-mimetic Composite
Materials for Wind Turbine
Blades

Led by:













Sarah Bee









Project Title: Multi-task Learning for Engineering Dynamics Systems

- Now: Challenge is to see the bigger picture whilst working on innovation which is not yet ready for industry – events like this help.
- Future: Ensuring that the next generation of graduates have the skills that the industry needs.



Dax Blackhorse-Hull





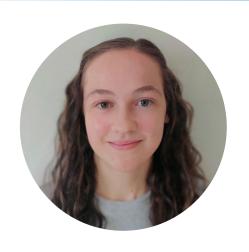




- The offshore wind sector can harvest multiple renewable sources at the same place
- Wave energy has the potential to be a stop-gap for wind intermittency

Sarah Dickson











- Improve data quality, mitigate against data loss and delays, and lessen the costs associated with environmental monitoring.
- Specifically, developing a novel, low-cost, realtime passive acoustic monitoring system for cetaceans.

Anna Weatherburn





Project Title: Inspired by Nature: Designing a Novel Material for Wind Turbine Blades



- Taking inspiration from materials in nature to improve the materials used in blades
- Enabling the manufacture of larger and more resilient wind turbine blades

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Led by:

In partnership with:









Funded by:



Collaborative offshore wind research and innovation

- Over £17M funding from industry, government and academia
- Commitment for 65+ Doctoral Students starting 2024-28
- Over £60k CDT contribution, per project, to support your skills pipeline and address your R&I challenges
- Industry partners already committed to 15 projects for cohorts 1 and 2





auracdt.hull.ac.uk/industry-partners

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Continuing to meet the sector's challenges



IGP Priority Areas



Industrialised Foundations & Substructures



Next Generation Installation and 0&M



Smart

Services

Advanced Turbine Technology



Future Electrical Systems & Cables

CDT Research Themes



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