

EPSRC Centres for Doctoral Training in Offshore Wind Energy

**Plans for Offshore Wind Energy Industry Growth
Annual Conference Programme
28 – 30 January 2025
West Park Teaching Hub, Loughborough University**





Welcome from our hosts



We are delighted to welcome you to the 2025 EPSRC Centres for Doctoral Training (CDTs) in Offshore Wind Energy Conference. It is especially exciting to bring together the CDT consortia, involving the universities of Durham, Hull, Loughborough, Newcastle and Sheffield, and over 40 industry project partners. This year we are also delighted to bring the CDT Conference to Loughborough University, building on both its legacy of UK wind energy research and its new role as joint lead of the CDT with the University of Hull.

During the conference you will hear about the exciting plans, research and impact being delivered by both CDT programmes. Across these two CDTs, our partnership will train over 130 future leaders for the offshore wind sector and address the evolving challenges as the sector seeks to meet government targets for the deployment of offshore wind.

The last year has seen exciting developments for both the CDT and the wider sector. Early CDT cohorts are now being awarded their PhD qualifications, impacting on the sector and going on to exciting careers in industry and academia. The recent Offshore Wind Industrial Growth Plan and Clean Power 2030 Action Plan highlight the continued importance of offshore wind in the UK energy mix and the vital role that the CDT has in delivering national targets.



Over the next three days, we hope you will benefit from an exciting exchange of ideas between experts in offshore wind energy from academia, industry and government. Our future leaders will showcase a fantastic programme of ongoing research, innovation and impact for offshore wind energy, set in the context of sector challenges and opportunities from leading figures in the industry.

We warmly welcome you to our 2025 CDT conference and hope that you enjoy the presentations of cutting-edge research, the wider perspectives of our partners and the opportunity to network with current and future leaders in the sector.

Professor Robert M Dorrell and Professor James M Gilbert

Co-Directors, EPSRC Centres for Doctoral Training in Offshore Wind Energy



Guest speakers and panel members

JANE COOPER



Executive Director of Offshore Wind at RenewableUK

In her role as Director of Offshore Wind at RenewableUK, Jane leads the team delivering the Offshore Wind Sector Deal, providing strategic oversight and advice to the Offshore Wind Industry Council Board (OWIC).

Having worked at Ørsted for ten years, Jane has a proven track record in the industry, with a deep understanding of the challenges faced by the sector to meet its targets for 2030 and beyond. Jane is Chair of the Aura CDT Strategic Advisory Board and co-Chair of Tackling Inclusivity and Diversity in Energy (TIDE). She holds an MSc from City University and is a Chartered Mechanical Engineer.

DANIELLE LANE



Director of Offshore Development UK & Ireland at RWE

Danielle is Executive Vice President and Director of Offshore Development UK & Ireland for RWE. She joined RWE in January 2022 from Vattenfall, where she worked from 2018 as Director of Asset Value & Partnering and Director of Offshore Market Development on the offshore leadership team. She was also Vattenfall's UK Country Manager.

Danielle previously worked for Ørsted, where she headed their UK regulatory and public affairs team, leading engagement with UK Government for the first Contracts for Difference (CFDs) awarded to UK offshore wind projects. Prior to Ørsted, Danielle worked at The Crown Estate, where she had responsibility for design and implementation of the Round 3 offshore wind leasing tender and Centrica, where she was Project Manager for the Round 2 offshore wind farms.

Danielle was educated at Imperial College and the University of Bath and holds an MBA from the Open University.

Guest speakers and panel members

ALEX LOUDEN



Head of UK&IE Innovation Hub at Ørsted

Alex Loudon is Head of Ørsted's UK and Ireland Innovation Hub. The Hub serves as the front door for innovators in Great Britain and Ireland to engage with Ørsted and explore opportunities for collaborative Research and Development partnerships. The Hub's portfolio covers partnerships with academia, start-ups and research

organisations as well as Joint Industry Programmes.

Alex's career to-date has been focused on innovation in offshore wind and other offshore renewable energy sectors, with extensive experience working with early-stage innovators, and delivering projects and programmes to support their development and commercialisation pathways.

DAN MCGRAIL



Chief Executive at RenewableUK

Dan McGrail took up his post of Chief Executive at RenewableUK in May 2021. Previously he was the CEO of Siemens Engines.

Dan joined Siemens UK in 2004 and has worked in a variety of roles across the energy industry. Between 2010 and 2014,

he led Siemens' plans to develop and invest in offshore wind turbine manufacturing in the UK, securing the world-class offshore wind turbine blade factory and port facility in Hull, negotiating with the UK government and overseeing one of the company's most significant factory investments in its recent history. The Final Investment Decision of £160m was announced in 2014, alongside a £150m investment by Associated British Ports to revitalise Hull's Alexandra Dock.

As Managing Director of Siemens Power Generation from 2014-2017, he expanded Siemens UK's activities in the thermal power market. He became CEO of Siemens Engines in November 2017, leading the rebranding of the company and helping to secure significant growth.

Guest speakers and panel members

CHONG NG



Applied Research Associate Director at the Offshore Renewable Energy Catapult

Chong Ng is the Applied Research Associate Director at the Offshore Renewable Energy Catapult. He also serves as a Non-Executive Director of the TUS-OREC Research Centre in China and holds the title of Honorary Professor at the University of Warwick. His Research &

Development team focuses on developing innovative offshore renewable energy technologies and novel solutions for full-scale wind turbine and energy storage testing.

Previously, as Head of Research and Head of Validation, Chong led a multi-disciplinary team in exploring international markets, delivering applied research projects, managing full-scale multi-megawatt wind and tidal turbine nacelle/powertrain testing projects, and developing world-class full-scale test facilities.

Chong is a Chartered Engineer with a PhD in electrical power quality. He has amassed over 20 years of combined industry and research experience in renewable energy and power conversion. Chong has authored more than 50 international research papers and a book on offshore wind farms. Additionally, he is a named inventor on multiple international patents.

TIM PICK MBE



Chair of the UK's Offshore Wind Growth Partnership, and a Commissioner on the UK's Clean Power 2030 Advisory Commission

In May 2023, Tim completed an assignment as the UK's first Offshore Wind Champion with the publication of his report [Accelerating deployment of offshore wind farms: UK Offshore Wind Champion](#)

[recommendations](#) containing detailed recommendations for government, industry and other stakeholders.

Tim remains an advocate for positive change in the sector, and is Chair of the UK's Offshore Wind Growth Partnership and a Commissioner on the UK's Clean Power 2030 Advisory Commission.

Tim was awarded an MBE in the 2024 King's New Year Honours for services to offshore wind energy.

In the charity space, Tim is a Vice President, Council member and Fellow of the Energy Institute.

Tim is a seasoned energy projects professional with more than 25 years' experience of advising on the development and financing of some of the largest and most complex projects in the UK, Eastern Mediterranean, Middle East, East Africa and beyond, including in the oil and gas, LNG, pipeline, refining, power, water and wastewater industries.

Tim also acts as an Angel investor with interests in Energy Transition, Healthcare, E-commerce, Tech and Social Mobility.

Guest speakers and panel members

KATIE PROTHEROE



Engineering Project Lead at Osbit

Katie Protheroe is an Engineering Project Lead at Osbit, where she leads multi-disciplined teams to deliver innovative and bespoke machinery for the offshore renewable energy sector.

Katie recently led the build, installation, and commissioning of the largest monopile upending hinge in the world – a project that connected her to both Singapore and Rotterdam.

Beyond her engineering responsibilities, Katie is the Lead of the Venterra Group STEM Programme, where she drives initiatives across all companies in the group. Her vision for the STEM Programme is to give young people access to and visibility of STEM, as well as addressing the perception of STEM to tackle the diversity deficit in the industry. All with aims to increase the proportion of pupils considering STEM subjects and attract more talented graduates to the business.

PROFESSOR JAMES GILBERT



Co-Director EPSRC Centres for Doctoral Training in Offshore Wind Energy, University of Hull

In 30 years of research, Professor James Gilbert has tackled a wide range of challenges with a common theme of measuring, modelling and controlling engineering systems. These include robotics and manufacturing systems, medical rehabilitation and energy harvesting systems ranging from microwatts generated from human movement to megawatts from offshore wind turbines. Current work is primarily focused on sensing and measurement in offshore renewable energy systems, particularly offshore wind.

Before taking on the leadership of the Energy and Environment Institute in 2024, James was the Research, Development and Innovation lead for Aura, a collaboration between Siemens Gamesa Renewable Energy, Ørsted, University of Sheffield, Durham University and the Offshore Renewable Energy Catapult. He is Hull lead on the £17M EPSRC Supergen Offshore Renewable Energy Hubs, the £5M Northern Net Zero Place-Based Impact Acceleration Account and he also supports the TRANSECTS project, looking at just energy transitions for coastal communities.

Guest speakers and panel members

VICTORIA BESSONOVA



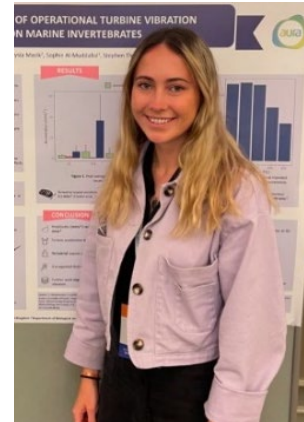
Wind Energy Analyst, SSE Renewables and CDT Researcher

Victoria has a BSc in Electrical Engineering and an MSc in Energy Engineering. She has a diverse international experience in wind farm development, including wind monitoring, wind resource estimation, wind farm design and planning.

During her PhD, Victoria studied the impact of climate change on the accessibility of offshore wind farms during installation and

maintenance. Her previous experience in combination with skills gained during the PhD helped Victoria transition to her current role developing wind farms in Ireland with SSE Renewables.

JORDAN BURGESS



Post Doctoral Researcher, ECOWind BOWIE project at the University of Hull

Throughout her university career, Jordan has always had a passion to study human impacts to promote positive environmental change. Jordan's PhD with the Aura CDT focused on the effects of substrate-borne vibration on marine invertebrates, and now her Post Doctoral position under ECOWind continues that work, with the underlying aim to implement policy.

Jordan's work from her PhD, which focused on the common hermit crab, now moves on to include ecologically and commercially important species, with the aim to further understand the effects of fixed bottom offshore wind developments on benthic communities.

Programme

Please note: All sessions will be taking place in the [West Park Teaching Hub](#) (WPT), Loughborough University Campus.

Tuesday 28th January Agenda – Day 1

CDT RESEARCH ACADEMIC POSTER AND WINE RECEPTION

17:00 - 18:00

WPT Exhibition
Space

An opportunity to view conference posters from our CDT PhD researchers and discuss their cross-disciplinary research projects, providing research, development and innovative solutions for the offshore wind industry. There will be the opportunity to network with colleagues from the offshore wind industry and CDT academic researchers whilst light refreshments are served.

Programme

| Wednesday 29 th January Agenda – Day 2 | |
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| REGISTRATION | |
| 08:45 – 9:15 WPT Exhibition Space | Registration |
| WELCOME | |
| 9:15 – 9:30 WPT001 | Introduction from Professor Dan Parsons, Pro Vice Chancellor for Research and Innovation, Loughborough University, Professor Rob Dorrell, Co-Director EPSRC CDT in Offshore Wind Energy, Loughborough University, and Professor James Gilbert, Co-Director EPSRC CDT in Offshore Wind Energy, University of Hull. |
| GUEST SPEAKERS | |
| 9:30 – 10:00 WPT001 SESSION CHAIRED BY SARAH-JANE TONKS | Guest speaker - Dan McGrail, Chief Executive, RenewableUK Industrial Growth Plan: “OSW IGP: expanding horizons of UK supply chain and skills” |
| RESEARCH PRESENTATION SESSION 1 | |
| 10:05 – 11:25 | Parallel sessions West Park Teaching Hub (see session description for room details). |
| Session 1A WPT004 SESSION CHAIRED BY SARAH BEE | THEME: PHYSICS AND ENGINEERING OF THE OFFSHORE ENVIRONMENT Nilotpal Dhar, The Effect of Air-Water Interface and Orientation of Floating Platform on Drag Force Di Huang, Offshore wind infrastructure in stratified seas: Interactions between waves and wakes Seph Sanderson, Understanding the interaction of internal waves and offshore wind infrastructure Osama Akabat, Computer modelling of irregular nonlinear surface waves and their effects on offshore wind turbine structures |

Programme

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| <p>Session 1B WPT005</p> <p>SESSION CHAIRED BY SIMON BREALY</p> | <p>THEMES: ENVIRONMENTAL IMPACT, MARINE BIOLOGY AND AQUACULTURE; AND NEXT GENERATION MATERIALS AND MANUFACTURING</p> <p>Teri Farthing, Effects of substrate type on biofouling populations Ben Whitcombe, Primary Productivity in the Flamborough frontal system Ben Pickett, Potential Inundation of a North Sea tsunami against Offshore Wind infrastructure Frances Longbottom, Sustainable Recycling of Plastic Covers for Wind Turbines via Photocatalysis</p> |
| <p>BREAK</p> | |
| <p>11:25 – 11:45 WPT Exhibition Space</p> | <p>Refreshment break</p> |
| <p>RESEARCH PRESENTATION SESSION 1 (continued)</p> | |
| <p>11:45 – 12:45</p> | <p>Parallel sessions West Park Teaching Hub (see session description for room details).</p> |
| <p>Session 1A WPT004</p> <p>SESSION CHAIRED BY SARAH-JANE TONKS</p> | <p>THEMES: PHYSICS AND ENGINEERING OF THE OFFSHORE ENVIRONMENT</p> <p>Geng Chen, Hydrodynamic forces on three circular cylinders in equilateral-triangular arrangements in oscillatory flow Michael Anya, Characterisation of floating wind dynamic cable motion: is biofouling a challenge? Charlotte Atkinson, Wind Turbine Modelling Using OpenFAST</p> |

Programme

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| <p>Session 1B WPT005</p> <p>SESSION CHAIRED BY RAVEENA SINGI REDDY</p> | <p>THEMES: ENVIRONMENTAL IMPACT, MARINE BIOLOGY AND AQUACULTURE; AND NEXT GENERATION MATERIALS AND MANUFACTURING</p> <p>Will Burton, Offshore Wind, Inevitably: Fuzzy Cognitive Mapping to combine perceptions of AURA CDT students on the linkages between social-ecological entities of the UK North Sea.</p> <p>Ewan Norris, Agent Based Modelling for Predictive Models in Blade Factory Digital Twin</p> <p>Miguel Ye, Superconducting generators for floating wind turbines</p> |
| <p>LUNCH</p> | |
| <p>12:45 – 13:45 WPT Exhibition Space</p> | <p>Lunch break</p> |
| <p>GUEST SPEAKERS AND PANEL</p> | |
| <p>13:45 – 13:50 WPT001</p> | <p>Introduction by Professor James Gilbert, Co-Director EPSRC CDT in Offshore Wind Energy, University of Hull</p> |
| <p>13:50 – 14:20 WPT001</p> <p>SESSION CHAIRED BY DI HUANG</p> | <p>Tim Pick, MBE, Chair of the UK’s Offshore Wind Growth Partnership, and a Commissioner on the UK’s Clean Power 2030 Advisory Commission:</p> <p>“What does Clean Power 2030 mean for Offshore Wind?”</p> |
| <p>14:20 – 15:20 WPT001</p> <p>ASSISTANT CHAIRS DI HUANG AND SARAH-JANE TONKS</p> | <p>PANEL DISCUSSION: What will the Industrial Growth Plan and Clean Action Plan deliver for the UK?</p> <p>SESSION CHAIRED BY JANE COOPER, EXECUTIVE DIRECTOR OF OFFSHORE WIND, RENEWABLEUK</p> <p>Panel members:</p> <p>Victoria Bessonova, Wind Energy Analyst, SSE Renewables and CDT Researcher</p> <p>Danielle Lane, Director of Offshore Development UK and Ireland, RWE</p> <p>Alex Loudon, Head of UK and Ireland Innovation Hub, Ørsted</p> <p>Chong Ng, Applied Research Associate Director, Offshore Renewable Energy Catapult</p> <p>Tim Pick, MBE, Chair of the UK’s Offshore Wind Growth Partnership, and a Commissioner on the UK’s Clean Power 2030 Advisory Commission</p> |

Programme

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| BREAK | |
| 15:20 – 15:40 | Short break to move to parallel session and refreshments available |
| WPT Exhibition Space | |
| RESEARCH PRESENTATION SESSION 2 | |
| 15:40 – 17:10 | Parallel sessions West Park Teaching Hub (see session description for room details). |
| Session 2A WPT004 | <p>THEMES: NEXT GENERATION MATERIALS AND MANUFACTURING; AND OFFSHORE WIND ENERGY INTEGRATION & CHALLENGES AND IMPACTS</p> <p><i>Plus we will hear from two students, from our new EPSRC CDT in Offshore Wind Energy Sustainability and Resilience, who joined in September 2024</i></p> <p>Isobel Wood, Biochar from wind turbine blade waste for carbon capture</p> <p>Anna Weatherburn, Taking Inspiration from Nature: A Novel Material for Wind Turbine Blades</p> <p>Stella Ezeoye Ikegwuonu, Evaluating the Performance and Sustainability of Natural Fibre-Based Composites in Wind Turbine Components: A Comparative Study</p> <p>Daniel Whitt, Development of a New Experimental Procedure for Investigating the Dielectric Behaviour of Water Confined within Nanocavities</p> <p>Zach Wang, Energy security vs. energy import costs: assessing the role of Offshore Wind Power</p> <p>Pranavkumar Shivakumar, The role of fabric anisotropy on cyclic loading of offshore soils: a grain-scale investigation</p> |
| SESSION CHAIRED BY GENG CHEN | |

Programme

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| <p>Session 2B WPT005</p> <p>SESSION CHAIRED BY ALIYU IBRAHIM NAGIDI</p> | <p>THEMES: OPERATIONS, MAINTENANCE AND HUMAN FACTORS</p> <p><i>Plus we will hear from two students, from our new EPSRC CDT in Offshore Wind Energy Sustainability and Resilience, who joined in September 2024</i></p> <p>Luke Neal, Labour and 'the energy transition' in offshore wind energy production</p> <p>Lisa Somerville, Evaluating the impact of motion travel (with and without a mitigation tool) on cognitive ability using virtual reality and motion simulation</p> <p>Callum Rotheron, Physics-Informed Transformer for Crack Growth Prediction</p> <p>Bayan Mohammad, Decommissioning of Offshore Wind</p> <p>Wayne Anderson, The challenges and potential solutions for integrating offshore wind into the UK Net Zero grid</p> |
| <p>WELCOME DRINKS AND CONFERENCE DINNER (by invitation)</p> | |
| <p>19:00 – 19:30</p> <p>Burleigh Court Hotel, See Map location</p> | <p>Welcome drinks</p> |
| <p>19:30 – Onwards</p> <p>Burleigh Court Hotel, See Map location</p> | <p>Conference dinner</p> |

Programme

| Thursday 30 th January Agenda – Day 3 | |
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| REGISTRATION | |
| 08:30 – 09:00 WPT Exhibition Space | Registration and refreshments |
| GUEST SPEAKERS | |
| 9:00 – 9:05 WPT001 | Introduction from Prof Rob Dorrell, Co-Director EPSRC CDT in Offshore Wind Energy, Loughborough University |
| 9:05 – 9:35 WPT001 SESSION CHAIRED BY SARAH-JANE TONKS | Danielle Lane, Director of Offshore Development UK and Ireland, RWE: “Current challenges and opportunities in offshore wind” |
| 9:35 – 9:50 WPT001 SESSION CHAIRED BY SARAH-JANE TONKS | Professor James Gilbert, Co-Director EPSRC CDT in Offshore Wind Energy, University of Hull: “Supergen Offshore Renewable Energy Hub Opportunities” |
| RESEARCH PRESENTATION SESSION 3 | |
| 9:50 – 11:10 | Parallel sessions West Park Teaching Hub (see session description for room details). |
| Session 3A WPT004 SESSION CHAIRED BY CALLUM ROTHON | THEMES: PHYSICS AND ENGINEERING OF THE OFFSHORE ENVIRONMENT; AND BIG DATA, SENSORS AND DIGITALISATION OF THE OFFSHORE ENVIRONMENT Beth McMahon, Simulating vibration control methods Dax Blackhorse-Hull, A High-Gain DC-DC converter for wind wave applications Raveena Singi Reddy, Impacts of estuary dynamics on offshore wind infrastructure |

Programme

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| <p>Session 3B WPT005</p> <p>SESSION CHAIRED BY ANNA WEATHERBURN</p> | <p>THEMES: OFFSHORE WIND ENERGY INTEGRATION & CHALLENGES AND IMPACTS; AND BIG DATA, SENSORS AND DIGITALISATION OF THE OFFSHORE ENVIRONMENT</p> <p>Aliyu Ibrahim Nagidi, Accelerating the decarbonisation of the Humber industrial cluster using offshore wind with direct air carbon capture and storage</p> <p>Nicholas Wilson, Driving the Hydrogen Economy: Electrochemical Compressors for Hydrogen Energy Storage</p> <p>Siti Khadijah Hamzah, Minimizing the impact of contingency in multiple-period short-term operational planning with RAS-FUBM for wind integration</p> |
| <p>REFRESHMENT BREAK</p> | |
| <p>11:10 – 11:30 WPT Exhibition Space</p> | <p>Short refreshment break</p> |
| <p>RESEARCH PRESENTATION SESSION 3</p> | |
| <p>11:30 – 13:10</p> | <p>Parallel sessions West Park Teaching Hub (see session description for room details).</p> |
| <p>Session 3A WPT004</p> <p>SESSION CHAIRED BY NILOTPAL DHAR</p> | <p>THEMES: PHYSICS AND ENGINEERING OF THE OFFSHORE ENVIRONMENT; AND BIG DATA, SENSORS AND DIGITALISATION OF THE OFFSHORE ENVIRONMENT</p> <p>David Goodman, Physics-informed Machine Learning for Blade Loading Estimation</p> <p>Soheil Navvabi, Optimisation of Wind Turbine Blades Internal Structure</p> <p>Sarah-Jane Tonks, How does sand adhesion on turbine blades affect energy production?</p> <p>Connor Walker, SafeLLM: Using Statistical Methods to make Large Language Models Safe in OSW Maintenance</p> |

Programme

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| <p>Session 3B WPT005</p> <p>SESSION CHAIRED BY DI HUANG</p> | <p>THEMES: OFFSHORE WIND ENERGY INTEGRATION & CHALLENGES AND IMPACTS; AND BIG DATA, SENSORS AND DIGITALISATION OF THE OFFSHORE ENVIRONMENT</p> <p>Simon Brealy, Inter-turbine Power Prediction with Multi-task Learning Akash Kumar, Human-Informed AI for Damage Detection and Decision Making Reuben Tinsdeall, Reinforcement learning for wind farm control Louis Donaldson, Optimisation of Maintenance Scheduling in Offshore Wind Adam Brassington, Detection, Localisation, and Quantification of Bolt Looseness in an Aluminium Plate Using Lamb Wave Analysis</p> |
| <p>LUNCH</p> | |
| <p>13:10 – 14:10 WPT Exhibition Space</p> | <p>Lunch</p> |
| <p>GUEST SPEAKERS</p> | |
| <p>14:10 – 14:15 WPT001</p> | <p>Introduction from Professor James Gilbert, Co-Director EPSRC CDT in Offshore Wind Energy, University of Hull</p> |
| <p>14:15 – 14:45 WPT001</p> <p>SESSION CHAIRED BY DI HUANG</p> | <p>Katie Protheroe, Engineering Project Lead at Osbit: “From Theory to Practice: Engineering Machines for Offshore Wind Installation”</p> |
| <p>14:45 – 15:15 WPT001</p> <p>SESSION CHAIRED BY DI HUANG</p> | <p>Jordan Burgess, at ECOWind Bowie Project: “From Passion to Policy: Investigating Human Impacts from Offshore Wind Activities to Drive Environmental Change”</p> |

Programme

15:15 – 15:35

WPT001

Conference close, Prof James Gilbert, Co-Director, EPSRC Centres for Doctoral Training in Offshore Wind Energy.
The RenewableUK prizes for best poster and best presentation will be awarded by Jane Cooper, Executive Director of Offshore Wind at RenewableUK.

END OF CONFERENCE

| ESPRC CDT IN OFFSHORE WIND ENERGY RESEARCHER | POSTER TITLE |
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| Theme 1: Physics and Engineering of the offshore environment | |
| Osama Akabat | Computer Modelling of Irregular Nonlinear Surface Waves and their Effects on Offshore Wind Turbine Structures |
| Michael Anya | Characterisation of Dynamic Cable Motion - Is Biofouling a Challenge? |
| Charlotte Atkinson | The Future of Floating Wind Power |
| Sarah Bee | Can YOU beat* the algorithm? |
| Dax-Blackhorse Hull | Dual-Polarity Multi-Level DC-DC Converter |
| Geng Chen | Vortex Induced Motion of a Semi-Submersible Floating Wind Turbine Platform |
| Nilotpal Dhar | The Effect of Air-Water Interface and Orientation of Floating Platform on Drag Force |
| David Goodman | Distributed Load Inference for Wind Turbine Blades |
| Di Huang | Wave-Wake Interactions in Stratified Shelf Seas: Implications for Offshore Wind Infrastructure |
| Beth McMahan | Damping Devices for wind turbine blades |
| Soheil Navvbi | Optimisation of Wind Turbine Blades Internal Structure |
| Seph Sanderson | Internal Solitary Waves (ISW) and Offshore Wind Infrastructure |
| Raveena Singi Reddy | Estuaries: Sweet Spot for Offshore Wind Infrastructure |
| Sarah-Jane Tonks | Blowing In the Wind: Is sand adhesion a problem for offshore wind turbine blades? |
| Theme 2: Environmental impact, marine biology and aquaculture | |
| Will Burton | How Offshore Wind is shaping the Blue Growth concept: Relational mapping to combine expert perceptions of the complex interactions between offshore wind and other social-ecological entities in the UK North Sea. |

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| Teri Farthing | Spatial and Temporal Impact of Hydrodynamic Forces on Biofouling: A Point Sampling Approach |
| Frances Longbottom | Organic-Inorganic Hybrid Materials for the Sustainable Recycling of PVC via Photocatalysis |
| Ben Pickett | Simulating Storegga: Evidence of North Sea tsunamis & Modelling a future event |
| Ben Whitcombe | Primary production and carbon export across the Flamborough frontal system |
| Theme 3: Next generation materials and manufacturing | |
| Stella Ezeoye-Ikegwuonu | Greening the Wind: Powering Tomorrow with Bio-based Wind Turbines! |
| Ewan Norris | Industry Informed Digital Twin Desires |
| Anna Weatherburn | Inspired by Nature: A New Material for Wind Turbine Blades |
| Isobel Wood | 'Wood' you believe it? A new lease of life for wind turbine blade waste |
| Jian (Miguel) Ye | Superconducting Vernier Machines for Floating Wind Turbines |
| Theme 4: Operations, maintenance and human factors | |
| Callum Rothon | Physics-informed Machine Learning for Crack Growth Prediction on Wind Turbines |
| Theme 5: Offshore wind energy integration – challenges and impacts | |
| Aliyu Ibrahim Nagidi | Utilising offshore wind to accelerate CO2 emissions reduction in the Humber industrial cluster |
| Siti Khadijah Hamzah | Minimising Impact of Contingency in Multiple-Period Short-term Operational Planning with RAS-FUBM for Wind Integration |
| Nicholas Wilson | Driving the hydrogen economy: Electrochemical hydrogen compression |

| Theme 6: Big data, sensors and digitalisation for the offshore environment | |
|---|--|
| Adam Brassington | Detection, Localisation, and Quantification of Bolt Looseness in an Aluminium Plate using Lamb Wave Analysis |
| Simon Breal | Multi-Task Inter-Turbine Power Prediction |
| Louis Donaldson | Optimisation of Maintenance Scheduling in Offshore Wind |
| Akash Kumar | Why Should AI have all the fun? |
| Isha Saxena | Data Driven Infrastructure Planning for Offshore Wind Farms |
| Connor Walker | Safety Monitoring of Large Language Models: A Case Study of Offshore Wind Maintenance |



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