

# Global Business Innovation Programme Offshore Wind USA - Boston

## Why the US?

The US offshore wind market is anticipated to grow substantially over the coming years, with a target to install 30 GW by 2030. The maturity of the UK supply chain provides businesses with a fantastic opportunity to support this emerging US market with key skills, knowledge, and technological innovations.

## The Programme

To support the development of the offshore wind market, Innovate UK and the National Offshore Wind Research & Development Consortium (NOWRDC) is launching a joint collaborative R&D competition to support UK-US R&D projects. This innovation mission will give UK participants an opportunity to visit Boston to identify potential US collaborators to jointly bid for funding.

## Focus areas:

### Development & demonstration of solutions for offshore wind resiliency and transmission coordination:

- Improve power reliability: voltage control, frequency response, black-start capability.
- Innovations in coordinated transmission solutions to optimise efficiency for multiple wind farms, minimise environmental impacts & onshore constraints: shared cable landfall, offshore backbone and meshed grid, dynamic array cables at 132kV, dynamic export cables.
- Integration of long-duration energy storage (+10 hours): feasibility/modelling of differing storage technologies & energy systems, integration technology development.

### O&M Systems Development:

- Technologies & strategies to increase effectiveness, reduce costs and improve safety: assessments of O&M requirements for different substructure designs, component health monitoring including corrosion monitoring & management, digital twin development & application, robotic inspection & integration, innovations and/or assessment of opportunities to address technical and efficiency challenges with large-scale OW buildout in deeper waters further from shore.
- Technologies and strategies that advance O&M supply chain development: assessment for implementation of ocean-based testing & validation for O&M approaches/technologies, techno-economic analysis of port & vessel upgrades specifically for O&M.

### Technologies to reduce development and operational impacts on the marine biosphere:

- Noise reduction technologies.
- Mooring line sensors to detect entanglement, marine growth, and line failure.
- AI tools/technologies for wildlife detection.
- Solutions to mitigate interactions with protected/endorsangered species and habitats.
- Solutions to coordinate & integrate fisheries/wildlife monitoring and assessment.

## Key Programme dates

Applicant Briefing:  
27th July 2023

Applications Close:  
13th August 2023

Pre Visit Briefing:  
6th - 7th September  
2023

Innovation Visit:  
2nd - 6th October  
2023

## WHAT TO EXPECT:

The Global Business Innovation Programme is structured around three main phases and each business will have a designated Innovate UK EDGE Innovation and Growth Specialist to support them for the duration of the offering, including developing an action plan to capitalise on the opportunities identified. The three main phases of the Global Business Innovation Programme are:-

**Getting ready for the market:** Pre-activity briefing workshop to build knowledge and understanding of the market and potential opportunities, including how to do business, cultural aspects, how to protect your IP and training on how to improve your pitch and articulate your value proposition.

**Market activities:** Explore the innovation opportunities first-hand through meeting with key companies and research organisations and potential collaborators and partners through pre-arranged meetings and organised matchmaking. (5 days of market related activity).

**Exploiting the opportunity:** An exploitation workshop and one-to-one support from a Innovate UK EDGE Innovation and Growth Specialist, to follow up and take advantage of the opportunities identified. (1 day workshop and as a guide, around 5 days working with an Innovate UK Specialist over a 12-month period).

## Innovation visit - Itinerary:

Date	Activity
1st October 2023	Outward travel to US
2nd October 2023	Welcome reception and B2B meetings
3rd – 5th October 2023	Participation in Offshore WINDPOWER Conference & Exhibition: <a href="https://cleanpower.org/offshore-windpower/">https://cleanpower.org/offshore-windpower/</a> The Summit brings together top developers and experts in offshore wind. Focusing on a broad range of topics, including stakeholder engagement, technology innovation, supply chain and workforce development, and permitting and leasing.
6th October 2023	B2B meetings and return travel
7th October 2023	Arrive back in the UK

*Travel will be subject to the entry and exit rules of US and the UK. Should travel not be permitted the programme will be delivered virtually or cancelled.*

## To apply for this initiative, you must:

Be a UK based innovation-led company with ambitions to grow and internationalise

Be a business with fewer than 500 employees

Be able to attend and complete all activities

## What is the cost?

Innovate UK will fund and organise flights, accommodation, in-market travel, and conference fees for successful applicants. Innovate UK will also pay for any reasonable adjustments throughout the initiative.

One representative from each company will be funded. On acceptance to the initiative a commitment fee of £500 will be obtained from each delegate, which will be refunded on completion of the full activities and agreed action plan.

Non-completion after formal acceptance may result in forfeiting some or all the commitment fee.

## How to apply?

The application form can be found [\[HERE\]](#). To support potential applicants, a briefing will take place at 4pm on 27th July 2023. Register [\[HERE\]](#).

The Global Business Innovation Programme has a competitive application process where only the best applications will be successful following an evaluation process.

All applications must be made online through the Innovate UK website and received no later than 13th August. All applicants will be notified from week commencing 21st August. Innovate UK is committed to improving the diversity of who we support. As such, we welcome applications from under-represented groups.

## Additional information & assistance:

Please note: Successful applicants will be expected to fully comply with any conditions of travel to Singapore as well as any local regulations. The safety of our delegation is our top priority.

If unforeseen circumstance do not allow us to travel to the market, a virtual visit may be considered.

To fill in the online application form please visit the [Innovate UK website](#). For more information, assistance with your application or to discuss accessibility needs, please contact Graeme Wilcock. [graeme.wilcock@innovateukedge.ukri.org](mailto:graeme.wilcock@innovateukedge.ukri.org)