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*TECHNOLOGY, INNOVATION AND GREEN  
GROWTH FOR OFFSHORE RENEWABLES  
(TIGGOR)*

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**TECHNOLOGY DEMONSTRATION PROGRAM  
FUNDING CALL 2020**

**APPLICATION FORM**

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## 1 Introduction

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The Technology, Innovation and Green Growth for Offshore Renewables (TIGGOR) Programme is a regional North of Tyne programme to accelerate technology/service development and new product entry into the offshore wind supply chain. The aim is to maximise future commercial investment in the supply chain via a technology demonstration programme to de-risk future investment. This supply chain innovation call will focus on priority technology themes including:

### 1. O&M reliability optimisation and AI:

- 1.1. Demonstration of next generation sub-components, including novel component designs for floating wind, novel materials for offshore application.
- 1.2. O&M tools, enabling Condition monitoring via Artificial Intelligence and Machine Learning techniques, novel sensor technologies, data driven failure mode detection to reduce O&M costs.

- 2. **Smart O&M Robotics:** Novel robotic technologies for subsea inspection, survey and maintenance. This could include ASV, ROV, AUV and novel applications of Drone technology for windfarm inspection and repair.
- 3. **Digitisation and Application of Digital Twins:** development of digital clone technologies on either component or wind farm level to enable improved offshore asset performance and operations.
- 4. **Open Category:** Includes and is not restricted to, long distance cable monitoring and protection, cable failure prediction, dynamic cable reliability, hybrid smart energy systems.

This Funding Call is “Open” to applications for projects that align with above challenges.

Full guidance on this application form is provided in the Technology Demonstration Programme Funding Call Scope and Guidance document available on the website at:

<https://ore.catapult.org.uk/research-innovation/strategic-programmes/tiggor/>

## 2 Application Pack and Process

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### 2.1 Application Pack

The Application Pack consists of:

Scope and Guidance Document – Contains background information and details about the program, including scope and eligibility as well as general guidance on the process.

Application Form – Six questions which will form the basis for project evaluation.

Finance Form – A summary of project costs, funding requested and in-kind support.

### 2.2 Application Process

- Instructions
  1. Ensure that you have completed the registration form on the website:  
<https://ore.catapult.org.uk/what-we-do/supply-chain-growth/tiggor/>
  2. Complete this form and save with your company name at the start of the file name.
  3. Complete the finance form and save with your company name at the start of the file name.
  4. You can submit one appendix to support your answers E.g. business plan, project plan, risk register. It must be a PDF and can be up to five pages long. The font must be legible when printed on A4-sized paper.
  5. Send an email with the application form, appendix (optional) and finance form as attachments to [tiggor@ore.catapult.org.uk](mailto:tiggor@ore.catapult.org.uk).

You will receive an email acknowledgement to confirm that your application has been received.

### 3 Contact Details

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Please enter your contact details below:

Name	
Job Role	
Email	
Telephone	
Company	
Address	
Postcode	
UK Company No.	
Website	
No. Employees	
Company Turnover	
Location of Project	

If you have not already registered, please also register your interest in the TIGGOR Technology Demonstration programme before you submit this application at: [tiggor@ore.catapult.org.uk](mailto:tiggor@ore.catapult.org.uk).

Please note for the technology demonstration programme your business must be located within the NTCA region (Newcastle, North Tyneside or Northumberland), currently or at the point of contract commencement.

## 4 Question 1

What is the background to your business? What is your track record and ambition for growth in offshore wind?

We are looking for an applicant to show relevant experience or have a clear intent to develop in the offshore wind sector. The applicant should demonstrate a strong knowledge of their market segment including market size and competitor landscape. They should show what traction exists for the innovation they want to test/demonstrate in the proposed project. They should articulate their ambition for growth in the offshore wind sector and demonstrate what strengths they have that will enable them to be successful.

Q1 Applicant Answer, maximum 400 words.

## 5 Question 2

What is the business opportunity (size of the potential market)? What challenges are you facing and what is the barrier to growth that this project addresses?

We are looking for an applicant to show a clear understanding of the business opportunity and the challenge(s) that they are facing. Explain the barriers to growth that the proposed project will overcome. This could be related to the need for cost reduction or improved quality or it could be about insufficient capacity or resources to enable increased business activity.

Explain which technology challenge your innovation solves and how it is going to benefit the wind sector. The applicant should consider how the market and competition is also developing and ensure that the project is a sustainable solution to underpin future growth. The applicant should use this answer to explain why the project is needed.

**Q2 Applicant Answer, maximum 400 words.**

## 6 Question 3

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If your project is innovation led, what approach will you take and where will the focus of the innovation be?

We are looking for applicants to provide a clear description of innovation and what the project will do. This should provide a high-level summary of the main work packages and an indication of the capital and operational expenditure of the project. This should explain who will be carrying out the work and the duration and if any partners or sub-contracts are being used to strengthen the project team. Ideally, the applicant should show that other options have been considered and why this option is the preferred one. The applicant should explain how implementation of this project will address the barriers identified in Q2. The applicant should use this answer to explain what the project will do

**Q3 Applicant Answer, maximum 500 words.**



## 7 Question 4

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### How are you going to manage and deliver this project effectively?

An Applicant must demonstrate how the project will be managed to ensure a successful outcome. Does the company have a suitable project management methodology for the size of the project? This should include an understanding of the risks and how they will be mitigated. Other considerations include how work will be managed with partners/sub-contractors, management of communications, IP, procurement processes and financial management. Demonstration of successful delivery of similar projects would be useful. A clear plan for exploitation of the project outputs should be included. The applicant should use this answer to explain how the project will be delivered.

**Q4 Applicant Answer, maximum 400 words.**

## 8 Question 5

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What are the expected outputs in terms of business growth, turnover, jobs, IP and exports? What will the wider supply chain impact in the North of Tyne region be?

The Applicant should provide estimates for the resulting increases in turnover, jobs, exports and IP that will occur as a result of the project. Quantitative answers over 1 year, 3 years and 10 years should be provided where possible. Any additional benefits should be included here. This could include synergies with other projects, indirect benefits through supply chain or collaboration and data sharing.

The Applicant should explain why the project would not go ahead without TIGGOR funding or if it would go ahead what the difference the TIGGOR funding would make. This is also an opportunity to explain the company contribution to the project i.e. match in-kind/cash contribution. This is a minimum % (as stated below) of the overall project budget but a larger contribution would demonstrate additional commitment from the company. The Applicant should use this answer to explain why TIGGOR funding is needed and what the impact will be.

Your project's total cost should be between £100,000 and £700,000.

Minimum percentage of match funding is required as per the following criteria:

For industrial research projects (TRL 4-6) applicants may receive funding for eligible project costs of:

- up to 60% if applicant is a small-medium sized business
- up to 50% if applicant is a large business

For experimental development projects (TRL 7-9) applicants may receive funding for eligible project costs of:

- up to 45% if you are a micro or small organisation
- up to 35% if you are a medium-sized organisation
- up to 25% if you are a large organisation

Q5 Applicant Answer, maximum 400 words.

## 9 Question 6

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Have you identified an offshore wind supply chain end-user to support/utilise your project outcomes? If yes, please tell us about this company and the value to them. For example, why would they use or buy your product?

An Applicant must demonstrate how the project will be engage with the end-consumer of the products to ensure a successful commercialisation. Does the company already supply other product or services to the end-consumer? Demonstrate the clear need identified for the innovation stated in the project. The applicant should use this answer to explain the need, competition and USP of the innovation proposed in the project.

Q6 Applicant Answer, maximum 400 words.

## 10 Evaluation

Applications will be reviewed by the OREC Programme Team to ensure the project is within scope and meets eligibility criteria. Applications will be scored against the following criteria:

Criteria	Weighting	Guidance
Company background and relevance to this call	20%	An applicant must have relevant experience or be well suited to delivery in the offshore wind sector and display a strong knowledge of the market.
Clear innovative technology opportunity	30%	An applicant must show a clear understanding of the challenges it is trying to solve with use of the NTCA funding in relation to wind farm challenges
Appropriate approach and focus	20%	The proposed solution must be well-suited to the challenge with a well-defined approach. Project delivery plan, risk assessment, change process, financial reporting.
NTCA impact and jobs and exports	30%	An Applicant must indicate how funding will support the company's regional impact in terms of jobs and business growth. Clear value for the grant funding should be demonstrated.

Full applications will also be reviewed by external assessors to provide an independent view of the information provided by Applicants.

## 11 Confidential Information and Intellectual Property

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The business information you provide in your online Application will be kept strictly confidential and will be used solely by OREC and independent technical assessors for the purpose of this call.

It is the intention of the OREC programme team that a confidential and intellectually safe environment be created by the Call where Applicants will feel free to share their ideas and concepts without fear of plagiarism or impact on their secrecy. As a result, OREC will ensure that the Intellectual Property (IP) included in submissions to the Call and IP that will be developed during any subsequent phase is and will remain property of the provider, will be treated in confidence and exclusively for the purpose of assessing and evaluating the Call Application. If the Applicant does not want to share the outputs of its work with OREC, then in the application process there should be a clear statement on which information will be redacted.

All personal information or personal data supplied in relation to this application will be treated as confidential. It will also be subject to the General Data Protection Regulation [EU] 2016/679 ("GDPR"). ORE Catapult will request personal information or personal data for the purposes of this application where we have a legitimate interest in doing so in order to assess whether the applicant meets the requirements.

## Contact

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### GLASGOW

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1400**

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### CHINA

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China

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**Visit us: [ore.catapult.org.uk](http://ore.catapult.org.uk)**

**Engage with us:**

