



## SPECIAL EU PROGRAMMES BODY

# Project Case Study: Bryden Centre for Advanced Marine and Bio-Energy Research

### THEME:

Research and Innovation  
Health & Life Sciences  
Renewable Energy

### FUNDING (ERDF + Match):

€9,365,483.34

### MATCH FUNDERS:

Department for Economy  
NI & Department of Business,  
Enterprise & Innovation  
Ireland

### LEAD PARTNER:

Queens University  
Belfast

### PROJECT PARTNERS:

Ulster University; Agri-  
Food & Biosciences Insti-  
tute; Letterkenny Institute  
of Technology; Donegal  
County Council; University  
of the Highlands & Is-  
lands; and Dumfries &  
Galloway Council.

### PROJECT CONTACT:

Brydencentre@qub.ac.uk

Start Date: 01/06/2017

End Date: 30/06/2022

 [www.brydencentre.com](http://www.brydencentre.com)

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Enabling the growth and development of the renewable energy sector is the central objective of the Bryden Centre project.

Three Universities, two Institutes and two Councils are working in partnership to train the next generation of energy leaders and support inter-regional economic growth.

Leading edge research is being undertaken by a large cohort of researchers and PhD students. The research is focused on:

- Harnessing the power of the sea (tidal & wave)
- Cultivating the power of land and turning organic waste into bio-fuels and chemical feedstocks
- Ensuring the environment is protected when renewable energy systems are installed
- Enabling the integration of renewable energy generation into energy transport networks and energy storage systems

The Bryden Centre is a cross border 'virtual centre of competence' that actively supports industry-led collaborative research on an inter-regional basis.

*"As an industrial partner in the Centre I am very impressed with how the Bryden Centre has made a major difference to bio-energy research in the region. Participation in the project is helping us attract major inward investment into Northern Ireland by significant global companies in the Renewable Energy Sector."*

Thomas Cromie, Managing Director, AgriAD



Bryden Centre: Leading edge research into Marine and Bio-energy



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The unique cross-border interregional PhD research initiative is named to pay tribute to the late professor Ian Bryden's dedication to advancing renewable energy.

Complementary to national and regional development plans it will contribute to economic development across the region through the provision of: industry relevant research; internationally competitive research & development capabilities; highly trained, future research leaders; and highly sought-after transferable skills in renewable energy.

In total, the project will recruit 34 PhD students and six post-doctoral research associates to produce industry inspired research that tackles important challenges in the sector.

*"There is a global imperative towards replacing conventional fossil-feedstocks with sustainable resources like biomass. This project has the exciting potential to create national/international economic benefits due to the fact that the products are valued at 10 times more than that of traditional bio-fuels. This multidisciplinary project will be carried out adopting multi-scale simulations and experimental validations."*

*Yaoguang Song (PhD student)*



Bryden Centre PhD students and Post-doctoral researchers

### Key Outputs

- Enterprises receiving support: 30
- Enterprises receiving grants: 8
- Enterprises receiving non- financial support: 30
- Researchers in supported entities: 40 (total of 132.5 researcher years)
- Enterprises cooperating with research institutions: 30
- Enterprises participating in cross-border, transnational or interregional research projects: 30
- Research institutions participating in cross-border, transnational or interregional research projects: 5