

## Accelerating Aquaculture Innovation

# Northern Ireland

### Main species:

Mussels, Oysters, Salmon, Trout

### Sector Value (2021):

**£13 million\***

Dominated by marine shellfish production, the Northern Ireland aquaculture sector is a valuable, niche industry, consisting of a range of species-specific businesses which continue to develop.

Northern Ireland's trout aquaculture status as disease-free is an important promoting factor and underpins its competitive advantage. Workshop discussions identified several key challenges around environmental bioremediation; waste valorisation; climate change mitigation production efficiencies in labour, waste and energy, as well as the potential for co-location with offshore renewable energy projects.

### Innovation opportunity roundup:

- **Multi-pond system kinetic energy** capture and conversion.
- **Bioremediation of coastal waters** to improve water quality.
- **Catchment characterisation of microbial pollution**, monitoring rainfall and pollution events for risk-based management of bivalve shellfish harvesting.
- **Waste valorisation for bivalve shellfish.**
- **Finfish waste for fly meal production.**
- **Insulation alternatives to polystyrene.**
- **Automation and LEAN manufacturing** opportunities.
- **Diagnostic technology** for antibiotic residue and disease diagnosis.



# Accelerating the development and advancement of the UK aquaculture industry

## Join CIEL's Open Innovation Groups (OIGs)

Facilitated by CIEL, based on feedback from our four nation's workshops, our OIGs offer a unique opportunity for industry and academia to collaborate and innovate in a safe, precompetitive space.

- Fast-track your research, development and commercial success.
- Join one of our OIGs and let's get talking.
- Together we will find answers: join like-minded stakeholders, discover collaborators, attract investment and drive innovation through our Open Innovation Groups.
- Access world-leading aquaculture research capability and expertise in genetics and genome editing, disease resistance, health and welfare and environmental monitoring with CIEL.

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Scan the QR Code to download the Four Nations 2023 Report Summaries

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