Shaping the future of low-carbon energy
Aura: A New Collaborative Cluster Rooted in the Humber Region.
Aura Innovation Centre (AIC)

£12m innovation and engagement space (under construction, opening late 2019/early 2020) including:

- Innovation Accelerator
- Technology Demonstrator
- Collaborative RDI space
- Meetings and conferences
RDI Going forward

- Centred around Offshore Wind Science and Engineering, but ........
- Broader low carbon agenda accessing broader university skills.
- Combination of industry led and Research Council projects.
- Small (eg SME prototype) to Large (EPSRC Prosperity Partnership).
- The commercial conduit - Aura directs industry in and academia out.
Skills analysis and alignment

- Qualitative review of wind and low carbon industry workforce requirements in the UK.
- Identify the synergies in the industry.
- Determine what the HE sector can do to help align offerings.
- Progress diversity solutions.
- Develop cultures that make people want to engage with low carbon industries.
Actual engagement

- Small to medium businesses looking to expand/get into low carbon industries through innovation in product or service.
- Big business looking to solve their issues.
- Priming the pump – active now, before the AIC opens.
- Work at all industry levels.

- **Collaboration** requires **Participation**.
## Aura RDI Focus Areas

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<th>Next Generation Blade Design and Manufacture</th>
<th>Whole Life Supply Chain Modelling</th>
<th>Marine Data</th>
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<td>Materials, Coatings and Surfaces</td>
<td>Operations, Maintenance, Logistics and Risk</td>
<td>Environmental Interactions and Sea Bed</td>
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<td>Generators and Converters</td>
<td>Management of Assets</td>
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EPSRC Prosperity Partnership
A New Partnership in Offshore Wind

£7.64M, 5-year programme launched Nov 2017.

Funding split between EPSRC, Siemens Gamesa, Ørsted & Universities.

20 PhD level projects split across the University Partners.

Industry Led – All projects linked to the development roadmaps of Siemens-Gamesa or Ørsted.

See www.npow.group.shef.ac.uk
EPSRC Prosperity Partnership
A New Partnership in Offshore Wind
The Aura Centre for Doctoral Training in Offshore Wind and the Environment.

£5.5m NERC & EPSRC funding with > 20 Industry partners.

75+ PhDs over 5 cohorts

Industry co-created research:
  • Environment Interaction
  • Logistics Safety & Risk
  • Marine Data
  • Next Generation Materials & Manufacturing
  • Operations and Remote Autonomous Monitoring
  • Aquaculture & Other Added Value

http://auracdt.hull.ac.uk/