

Flow measurement for accurate tidal turbine design

Anna Young, University of Bath

PARTNERS:









Cambridge Instrumentation



Bio and reasons for choosing Supergen Flex Fund



Bio:

2008 – 2012: PhD – aero-engine compressors, Cambridge

2012 – 2019: Research Fellow/Senior Research Fellow, Cambridge

Independent research projects, teaching, 1 PhD student

2019 – present: Lecturer, Mechanical Engineering, University of Bath

Why Flex Fund?

Money!

Project suited the funding – pilot for something bigger, potentially useful across ORE

Could make progress with £125k

Contacts in place (QUB, British Antarctic Survey)

Flow measurement for accurate tidal turbine design



- 1. Build two self-contained, autonomous probes
- 2. Test in Strangford Lough
- 3. Measure spatial correlation of unsteady flow features
- 4. Explore use of probe in flume/towing tanks and other applications



Top tips for putting together a proposal



Do it!

Explain your proposal in a sentence

Get people to read it for you

Fit to call

Budget



A1: measurement techniques for forecasting and characterisation

A2: improved modelling for resource/load assessment