



Candidate Information

Position:	Research Assistant/Research Fellow
School/Department:	School of Mechanical and Aerospace Engineering
Reference:	23/111516
Closing Date:	Monday 22 January 2024
Salary:	£37,841 per annum.
Anticipated Interview Date:	Thursday 1 February 2024
Duration:	Fixed term, available until 31 December 2024

JOB PURPOSE:

To conduct, or assist in, research in relation to the life cycle assessment of electric foiling commercial maritime transportation in close collaboration with industrial partners, Artemis Technologies, and other partners of the Belfast Maritime Consortium.

MAJOR DUTIES:

1. Develop a detailed research project plan with the Principal Investigator to meet expected deliverables and milestones within the project.
2. Execute the agreed project plan and undertake whichever research tasks are required.
3. Be an effective and collegiate member of the Advance Composite Research Group (ACRG).
4. Develop research proposals, for submission to funding bodies, under the guidance of the Principal Investigator.
5. Produce regular research progress reports and deliver progress presentations to members of the ACRG and project consortium partners.
6. Prepare material for publication in leading journals and presentations at international conferences.
7. Partake in outreach activities when requested.
8. Carry out administrative tasks associated with the research project to ensure that the project is completed on time and within budget. These might include organisation of project meetings and documentation, financial control, risk assessment of research activities.
9. Supervise undergraduate final year projects and MSc thesis projects.
10. Carry out occasional demonstrating or lecturing duties within the post holder's area of expertise and under the direct guidance of a member of academic staff.
11. Keep abreast of new developments in the specific area of research and related disciplines.
12. Maintain project-related social media sites.

ESSENTIAL CRITERIA:

1. An undergraduate degree in Mechanical/Aerospace Engineering or other related fields.
2. For Research Fellow: Have or be about to obtain a PhD in Mechanical or Aerospace Engineering.
3. Demonstrable knowledge commensurate with experience in the following:
 - The life cycle assessment.
 - Statistical and probabilistic analysis.
 - SimaPro or other related tools for the Life cycle assessment.
4. Ability to plan and manage a research project.
5. Ability to contribute to broader management and administrative processes.
6. Sufficient breadth and depth of specialist knowledge in the discipline and of research methods and techniques to work within established research programmes.
7. Ability to communicate complex information clearly.
8. Excellent communication skills.
9. Ability to build contacts and participate in internal and external networks.
10. Ability to assess and organise resources.

DESIRABLE CRITERIA:

1. Experience of working with industry on research programmes.