

Candidate Information

Position:	Research Fellow - SuperGen
School/Department:	Environmental Change and Resilience
Reference:	21/108646
Closing Date:	Monday 15 March 2021
Salary:	£33,797 per annum (pro rata)
Anticipated Interview Date:	Thursday 25 March 2021
Duration:	Until 28 February 2022 on either a 12 month period at 90% FTE (or 10 month period at 100% FTE); whichever is soonest.

JOB PURPOSE:

To be an active member of the QUB Marine Renewable Energy (MRE) Research Group assisting in the planning and delivery of the project objectives and to undertake the basic research.

MAJOR DUTIES:

1. Develop and plan this specific research programme.
2. Design, develop and refine experimental apparatus, in order to obtain reliable data.
3. Carry out analyses, critical evaluations, and interpretations using methodologies and other techniques appropriate to area of research.
4. Present regular progress reports on research to members of the QUB MRE research group, the research consortium and to external audiences to disseminate and publicise research findings.
5. Prepare, in consultation with supervisor, material for publication in national and international journals and presentations at international conferences.
6. Assist grant holder in the preparation of funding proposals and applications to external bodies.
7. Carry out routine administrative tasks associated with the research project/s to ensure that project/s are completed on time and within budget. These include organisation of project meetings and documentation, financial control and risk assessment of research activities.
8. Carry out occasional undergraduate supervision, demonstrating or lecturing duties within the post holder's area of expertise and under the direct guidance of a member of academic staff.
9. Read academic papers, journals and textbooks to keep abreast of developments in own specialism and related disciplines.
10. Provide assistance and feedback to PhD students and other Post Docs with regards to presentations, journal publications and general research work.
11. Contribute to the effective running of the QUB MRE research group in collaboration with the other Post Docs and staff in the group.

Planning and Organising:

1. Plan for specific aspects of research programmes. Timescales range from 1-6 months in advance and contribute to research group planning.
2. Plan for the use of research resources, laboratories and workshops where appropriate.
3. Plan own day-to-day activity within framework of the agreed research programme.
4. Plan up to a year in advance to meet deadlines for journal publications and to prepare presentations and papers for conferences.
5. Coordinate and liaise with other members of the research group over work progress.

Resource Management Responsibilities:

1. Ensure research resources are used in an effective and efficient manner.
2. Provide guidance as required to support staff and any students who may be assisting with research.

Internal and External Relationships:

1. Liaise on a regular basis with colleagues and students.
2. Build internal contacts and participate in internal networks for the exchange of information and to form relationships for future collaboration.
3. Join external networks to share information and ideas.
4. Contribute to the School's outreach programme by establishing links with local community groups, industries etc.

ESSENTIAL CRITERIA:

1. Have or be about to obtain a PhD in the engineering or physics.
2. At least three years recent relevant research experience.
3. Demonstrable experience of designing and working with bespoke laboratory equipment.
4. Demonstrable experience of developing/calibrating and refining numerical models based on experimental data.
5. Track record of publication appropriate to career stage.
6. Ability to contribute to broader management and administrative processes.
7. Contribute to the School's outreach programme by links with industry, community groups etc.
8. Proven ability to communicate complex information clearly.
9. Proven ability to build contacts and participate in internal and external networks.
10. Demonstrable intellectual ability.
11. Ability to assess and organise resources.

DESIRABLE CRITERIA:

1. Knowledge of reverse osmosis desalination.
2. Knowledge of renewable energy.
3. Supervision of undergraduate students on project level.