



THE POST

College:	College of Engineering, Mathematics and Physical Sciences
Post:	Research Fellow
Reference No:	P64755
Grade:	F
HERA:	RFEL
Reporting To:	Prof Lars Johanning

The above full-time post is available 1st of December 2018 until 31st of July 2019 in the College of Engineering, Mathematics and Physical Sciences.

Job Description

Main purpose of the job:

The post will be based on a balanced combination of scientific modelling and experimental testing: numerical simulations and engineering synthesis to provide robust design criteria that can be applied in a practical field deployment, in combination with large-scale physical testing of 'novel elastomeric mooring component' to verify the expected full-scale design characteristics. The successful applicant will be able to develop research objectives, projects and proposals; identify sources of research funding and contribute to the process of securing funds and make presentations at conferences and other events.

Main duties and accountabilities:

1. To undertake research as appropriate to the field of study including:
 - Acting as principal investigator on research projects;
 - Developing research objectives, projects and proposals;
 - Conducting individual or collaborative research projects;
 - Identifying sources of funding and contributing to the process of securing funds;
 - Extending, transforming and applying knowledge acquired from scholarship to research and appropriate external activities;
 - Writing or contributing to publications or disseminating research findings using media appropriate to the discipline;
 - Making presentations at conferences or exhibiting work in other appropriate events;
 - Assessing, interpreting and evaluating outcomes of research;
 - Developing new concepts and ideas to extend intellectual understanding;
 - Resolving problems of meeting research objectives and deadlines;
 - Developing ideas for generating income and promoting research area;
 - Developing ideas for application of research outcomes;
 - Deciding on research programmes and methodologies, often in collaboration with colleagues and sometimes subject to the approval of the head of the research programme on fundamental issues.
2. To contribute to teaching and learning programmes in the School and to supervise postgraduate research students.
3. To act as research team leader including:
 - Mentoring colleagues with less experience and advising on their professional development;

- Coaching and supporting colleagues in developing their research techniques;
- Supervising the work of others, for example in research teams or projects;
- Developing productive working relationships with other members of staff;
- Co-ordinating the work of colleagues to ensure equitable access to resources and facilities;
- Dealing with standard problems and help colleagues to resolve their concerns about progress in research.

4. To routinely communicate complex and conceptual ideas to those with limited knowledge as well as to peers using high level skills and a range of media and to present the results of scientific research to sponsors and at conferences.

5. To plan, co-ordinate and implement research programmes including:

- Managing the use of research resources and ensure that effective use is made of them;
- Managing research budgets;
- Helping to plan and implement commercial and consultancy activities;
- Planning and managing own consultancy assignments.

This job description summarises the main duties and accountabilities of the post and is not comprehensive: the post-holder may be required to undertake other duties of similar level and responsibility. Please visit the Human Resources website to view the Research Fellow role profiles.

Person Specification

Competency	Essential	Desirable
Attainments/Qualifications	Be a nationally recognised authority in the subject area. PhD or equivalent in a related field of study.	
Skills and Understanding	Possess sufficient specialist knowledge in the discipline to develop research programmes and methodologies. Record of research output in nationally recognised publications.	
Prior Experience	Experience of teaching at undergraduate level. Experience of managing research projects and research teams. Successful in obtaining grant funding.	Experience of postgraduate teaching and supervision. Experience of acting as principal investigator on research projects.
Behavioural Characteristics	Excellent written and verbal communication skills. Able to communicate complex and conceptual ideas to a range of groups. Evidence of the ability to collaborate actively within the Institution and externally to complete research projects and advance thinking. Able to participate in and develop external networks. Able to identify sources of funding, generate income, obtain consultancy projects, or build relationships for future activities. Able to balance the pressures of research, administrative	

	demands and competing deadlines.	
Additional Competencies/Experience	Strong background in offshore engineering	Background in mooring design or in the assessment of mooring materials, as well as being familiar with fully dynamic FMEA tool OrcaFlex.

Informal Enquiries

Before submitting an application you may wish to discuss the post further by contacting Prof Lars Johanning telephone (+44(0)1326 253730) and email l.johanning@exeter.ac.uk.