



# Research Associate

Department	Naval Architecture, Ocean and Marine Engineering ( <a href="http://www.strath.ac.uk/engineering/navalarchitectureoceanmarineengineering/">www.strath.ac.uk/engineering/navalarchitectureoceanmarineengineering/</a> )		
Faculty	Faculty of Engineering ( <a href="http://www.strath.ac.uk/engineering/">www.strath.ac.uk/engineering/</a> )		
Staff Category	Research	Reference No	610459
Reports To	The Head of Department	Grade:	7*
Salary Range:	£36,024 - £40,521*	Contract Type:	Fixed Term until 31 May 2027
FTE:	1 (35 hours/week)	Closing Date	Friday, 3 May 2024
Holidays	31 days + 11 statutory days Option to purchase additional holidays.	On Site Facilities	Car parking, sports centre, catering.
Pensions	Contributory pension scheme available to all staff including generous employer contribution.		
Training	Professional Development with <a href="#">Organisational and Staff Development Unit</a> (OSDU) plus external training if required.		
Family Friendly Benefits	Generous parental leave provision, on-campus nursery and options for flexible working.		
Health and Wellbeing	University Sport centre, Occupational Health service, access to health and wellbeing events, cycle to work scheme, Employee Assistance Programme, agile working and established carers support network and carer friendly policies.		

## Job Advert

The Department of Naval Architecture, Ocean and Marine Engineering is a world-leader in research, whose main interests lie in: Ship Design, Stability and Safety, Marine Hydrodynamics, Marine Structures, Ocean Engineering, Marine Engineering, Emerging Technologies, Offshore Renewable Energy and Alternative Fuels. The Department makes a significant contribution to National, European and International policy-making in Marine Technology research and its application. As a Research Assistant, you will assist in the delivery of the research activities as part of a team, working under the general supervision of senior colleagues. You will conduct literature reviews, develop questionnaires, conduct surveys, collect and collate data, and undertake and record the outcomes of experiments. You will manage and prioritise your own workload and ensure that all activities are completed before deadlines and you will write up the results of your research and contribute to the production of research reports and publications. You will input as a team member to administrative activities and assist, where required, with relevant teaching and knowledge exchange activities.

The project, LH2CRAFT, is a Horizon Europe Project, to develop next generation, sustainable, commercially attractive, and safe long-term storage and long-distance transportation of Liquid Hydrogen (LH2) for commercial vessels (or even as fuel in certain applications). It aims at developing an innovative containment system of membrane-type for high-capacity storage at a temperature of -253 deg C and demonstrating and validating it on a prototype. It foresees the analysis of alternative conceptual designs with safety and risk assessment initiated at an early stage of the design process of the cargo containment system (CCS)

As a Research Associate, under the general guidance of a research leader, you will develop research objectives and proposals, play a lead role in relation to a specific project/s or part of a broader project, conduct individual and/or collaborative research, contribute to the development of new research methods, identify sources of funding, and contribute to the securing of funds for research, including drafting grant proposals and planning for future proposals. You will write up research work for publication, individually or in collaboration with colleagues, and disseminate the results via peer reviewed journal publications and presentation at conferences. You will join external networks to share information and ideas, inform the development of research

objectives and to identify potential sources of funding. You will collaborate with colleagues to ensure that research advances inform departmental teaching effort and you will collaborate with colleagues on the development of knowledge exchange activities by, for example, participating in initiatives which establish research links with industry and influence public policy and the professions. You will supervise student projects, provide advice to students and contribute to teaching as required by, for example, running tutorials and supervising practical work. You will contribute in a developing capacity to Department/School, Faculty and/or University administrative and management functions and committees and engage in continuous professional development.

To be considered for the role, you will be educated to a minimum of PhD level in an appropriate discipline, or have significant relevant experience in addition to a relevant degree. You will have sufficient breadth or depth of knowledge in onboard marine systems, risk assessment and lifecycle assessment for alternative marine fuels and a developing ability to conduct individual research work, to disseminate results and to prepare research proposals. You will have an ability to plan and organise your own workload effectively and an ability to work within a team environment. You will have excellent interpersonal and communication skills, with the ability to listen, engage and persuade, and to present complex information in an accessible way to a range of audiences.

Whilst not essential for the role, applications are welcomed from candidates with: relevant work experience, membership of relevant Chartered/professional bodies (including the Higher Education Academy), experience of relevant student supervision and teaching activities, and/or experience of knowledge exchange related activities.

\*While Research Associates with successfully completed PhDs are ideally sought for this position, applications from candidates who are close to completing the write-up of their PhD are also welcome. Dependent on the profile and experience of the candidate, the appointment may be made at Research Assistant level (RS06 salary scale £31,396 - £34,980) and duties will be adjusted to reflect the grade of the post.

## Job Description

### Brief Outline of Job:

To undertake a specific research project/s under the general guidance of a research leader; to establish a personal research portfolio and plan research proposals, with assistance from senior colleagues as required; to engage where required in relevant teaching, professional and knowledge exchange activities; and input to administrative activities.

### Main Activities/Responsibilities:

1.	As part of a wider research group or programme, develop research objectives and proposals for own or joint research and play a lead role in relation to a specific project/s or part of a broader project, with guidance from senior colleagues as required.
2.	Plan and manage own workload, with guidance from colleagues as required.
3.	Conduct individual and/or collaborative research, including determining appropriate research methods and contributing to the development of new research methods.
4.	Identify sources of funding and contribute to the securing of funds for research, including drafting grant proposals and planning for future proposals.
5.	Write up research work for publication, individually or in collaboration with colleagues, and disseminate results as appropriate to the discipline by, for example, peer reviewed journal publications and presentation at conferences.
6.	Join external networks to share information and ideas, inform the development of research objectives and to identify potential sources of funding.
7.	Collaborate with colleagues to ensure that research advances inform departmental teaching effort.
8.	Collaborate with colleagues on the development of knowledge exchange activities by, for example, participating in initiatives which establish research links with industry and influence public policy and the professions.
9.	Supervise student projects, provide advice to students and contribute to teaching as required by, for example, running tutorials and supervising practical work.
10.	Contribute in a developing capacity to Department/School, Faculty and/or University administrative and management functions and committees.
11.	Engage in continuous professional development.

## Person Specification

### Educational and/or Professional Qualifications

(E=Essential, i.e. a candidate must meet all essential criteria to be considered for selection, D=Desirable)

- E1 Good honours degree and PhD (or equivalent professional experience) in Naval Architecture, Ocean and Marine Engineering or in a relevant discipline.
- D1 Membership of relevant Chartered/professional bodies (including RINA, IMAREST, Higher Education Academy etc).

### Experience

- E2 Sufficient breadth or depth of knowledge in the Liquified cargo containment system, Risk analysis and Life cycle analysis in order to contribute to the LH2CRAFT project .
- D2 Some relevant work experience on Hydrogen application in maritime industry
- D3 Experience of relevant undergraduate and postgraduate student supervision and teaching activities.
- D4 Experience of knowledge exchange related activities with maritime industry.

### Job Related Skills and Achievements

- E3 Developing ability to conduct individual research work, to disseminate results (journal and conference publications) and to prepare research proposals.
- E4 Ability to plan and organise own workload effectively.
- E5 Ability to work within a team environment.

### Personal Attributes

- E6 Excellent interpersonal and communication skills, with the ability to listen, engage and persuade, and to present complex information in an accessible way to a range of audiences.

## Application Procedure

Applicants are required to complete an application form including the name of three referees who will be contacted without further permission, unless you indicate that you would prefer otherwise. Applicants should also submit a Curriculum Vitae and a covering letter detailing the knowledge, skills and experience you think make you the right candidate for the job. Applicants should also complete the Equal Opportunities Monitoring Form.

## Other Information

Further information on the application process and working at Strathclyde can be found on our website (<http://www.strath.ac.uk/hr/workforus>).

Informal enquiries about the post can be directed to Prof Peilin Zhou, or Dr Byongug Jeong ([peilin.zhou@strath.ac.uk](mailto:peilin.zhou@strath.ac.uk); [Byongug.jeong@strath.ac.uk](mailto:Byongug.jeong@strath.ac.uk))

### Conditions of Employment

Conditions of employment relating to the Research staff category can be found at: [Conditions of Employment](#).

### Rewards and Benefits

Our staff have access to a wide range of outstanding benefits that include financial rewards, family friendly and wellbeing benefits and career development opportunities, details of which can be found [here](#).

### Probation

Where applicable, the successful applicant will be required to serve a 9 month probationary period.

### Pension

The successful applicant will be eligible to join the Universities' Superannuation Scheme. Further information regarding this scheme is available from [Payroll and Pensions](#).

### Relocation

Where applicable, the University offers a relocation package to support new employees who meet the eligibility criteria. The relocation package is offered as a contribution towards costs incurred, and is designed to be flexible, allowing staff to use the financial support available in the way that will be most helpful to them. Further details are outlined in the Relocation Policy.

## Interviews

Formal interviews for this post are scheduled to be held on Tuesday, 14 May 2024.

## Equality and Diversity

The University of Strathclyde is a socially progressive institution that strives to ensure equality of opportunity and celebrates the diversity of its student and staff community. Strathclyde is people-oriented and collaborative, offering a supportive and flexible working culture with a deep commitment to our equality, diversity and inclusion charters, initiatives, groups and networks.

We strongly encourage applications from Black, Asian and minority ethnicity, women, LGBT+, and disabled candidates and candidates from lower socio-economic groups and care-experienced backgrounds.

## University Values

The University's Values capture what we're all about: who we are, what we believe in and what we stand for. [Our Values](#) have been derived from how we act and how we expect to be treated as part of Strathclyde.

