

BAE Systems Professor of Applied Shipbuilding

Department	Dependent upon the expertise of the postholder, either: Naval Architecture, Ocean and Marine Engineering (NAOME) or Design, Manufacturing and Engineering Management (DMEM)		
Faculty	Faculty of Engineering (www.strath.ac.uk/engineering/)		
Staff Category	Academic	Reference No	567775
Reports To	Principal, through the Executive Dean of Engineering/Head of Department	Grade:	Professorial
Salary Range:	Commensurate with the skills and experience of the candidate and the seniority of the role	Contract Type:	Open Contract
FTE:	1 (35 hours/week)	Closing Date	Sunday, 3 December 2023

Job Advert

In partnership with BAE Systems, The University of Strathclyde is creating a new Professorial position for an internationally recognised expert in applied shipbuilding. They will drive research and innovation programmes in the field, and fully support the establishment of BAE System's Applied Shipbuilding Academy. This Academy will deliver capabilities at scale to ensure that current and future employees can perform, innovate, and grow in priority areas of strategic importance to BAE Systems and the wider Shipbuilding and Maritime industry.

BAE Systems is a world leading Security and Resilience services and products company. It helps customers to protect people and national security, critical infrastructure and vital information. It is a world leader in ship design and construction and wishes to strengthen this leadership and its talent pipeline. BAE Systems is building a new Applied Shipbuilding Academy to support delivering these plans. The University is a strategic partner in this initiative and requires a highly performing academic leader to continue to grow the partnership and deliver research, skills development and innovation success.

The University of Strathclyde is situated in the heart of Glasgow and has a vibrant, international community including 22,000 students and more than 3,000 staff from 100 countries. Strathclyde is dedicated to 'useful learning' and is recognised internationally for its close working relationships with businesses and its partnerships with industry and government. The University has a long maritime heritage and is proud to be one of BAE System's strategic academic partners.

This new post will be key to influencing both the formation of the Academy - its teaching methods, core programmes and curriculum – and setting the agenda for future research and innovation to develop excellence in applied shipbuilding. Academic leadership is required to ensure that the appropriate teams and resources are put in place to deliver this. The Academy's focus is on learning from experience in BAE Systems key capability areas, while developing programmes co-designed with internal and external experts to advance knowledge in applied shipbuilding.

The right candidate for this role will be either an internationally recognised active researcher and academic in the field of applied shipbuilding, or someone with extensive industrial experience of relevant innovative practices and University engagement. We will consider candidates from outside of shipbuilding if they can demonstrate that their expertise and experience will support the discipline.

In terms of shipbuilding, we are focused on innovation across the full enterprise from concept, through design, manufacturing, and delivery to testing and trialling. In terms of the applied aspects, we are particularly interested in those offering a systems approach and systems thinking for the full shipbuilding lifecycle, including, for example, design, modelling and risk management/models.

To be considered for this role, you will have substantial experience in leading complex research and knowledge exchange projects in collaboration with industry, or the equivalent from an industrial perspective. You will be internationally recognised as a strategic leader and/or academic, who has the ability to interact and engage with a variety of internal and external stakeholders.

Job Description

Brief Outline of Job:

As the BAE Systems Professor of Applied Shipbuilding, you will build and grow a portfolio of research, innovation and deliver impact in the field.

The postholder will build a research portfolio in the field of applied shipbuilding, and secure substantial research grant funding and attract income through knowledge exchange activities. They will also produce high quality research publications.

The role will also form part of the Academy leadership team working closely with the Academy Director (a BAE Systems member of staff), providing input on the operating model for the Academy, and ensuring academic matters are properly reported to and represented in the leadership team. Coordinating, facilitating and providing leadership for all academic elements will be a key responsibility for this post. This will include leading the development of the curriculum content and advising on best practice for teaching methods, leading the research committee and research programmes and securing matched research funding from diverse sources. The post holder will also be an external representative for the Academy on academic matters, ensuring that strategic relationships are developed with relevant bodies across the skills landscape.

This position will require someone who is able to work on the development of the Academy from the very early stages, guiding the development from early adoption of short-term projects. They must also plan the medium to long-term research and innovation programmes.

The role will also be required to link both the University and Academy research priorities in the shipbuilding and maritime fields, ensuring that the benefits of the partnership between Strathclyde and BAE Systems is felt for both parties.

Main Activities/Responsibilities:

1	Provide research leadership within the Department, Faculty and University through identifying, developing and leading significant research programmes and projects in the applied shipbuilding and maritime fields.
2	Secure substantial research grant funding and attract income through knowledge exchange activities, and regularly deliver high quality research publications.
3	Play a key role in the Applied Shipbuilding Academy leadership team, contributing at a strategic level, ensuring the academic aspects are well developed and impactful.
4	Oversee the design and delivery of the Academy curricula and play a lead role in the development of educational strategy and operational standards, considering pedagogical approaches.
5	Lead the development of knowledge exchange activities and promote public engagement by, for example, establishing research and/or educational links with industry and influencing public policy and the professions at national and international level.
6	Engage in, and where appropriate set the agenda in, national and international academic debates and within professional institutes, learned/practitioner societies and governmental committees.
7	Contribute, at a strategic level, to the work of the Department, Faculty and University, for example through participation in the Department senior management team and by playing a lead role on University committees.
8	Contribute to the development of a financial plan for the Academy activities, including the preparation of annual budgets for agreement and the day to day financial management.
9	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 in an appropriate discipline/field.

E2 Significant professional academic experience in shipbuilding and maritime sector

D1	Membership of relevant Chartered/professional bodies.
Experience	
E3	Extensive experience of senior engagement in developing research and industry relationships, and managing and developing revenue and industry engagement
E4	An established international reputation as an expert and leader within specialist field.
E5	Extensive experience of delivering high quality teaching to undergraduate and postgraduate students and supervision of research students, or the equivalent in training and CPD
E6	Sustained track record of leading the development and delivery of large and varied educational programmes, or equivalent.
D2	Extensive relevant leadership experience, demonstrating professional development through a series of progressively more demanding and influential work roles in either Academia, Industry, Government or the End User community.
Job Related Skills and Achievements	
E7	An outstanding and inspiring record of achievement in research and publication, recognised internationally.
E8	Proven ability to attract substantial research funding over a sustained period.
E9	Track record of multi/inter-disciplinary research collaborations and developing external partnerships.
E10	An established track record of project, budget and staff management.
D3	Established links with industry, learned societies, government and/or relevant Chartered/professional bodies.
Personal Attributes	
E11	Ability to think strategically and contribute at a senior level to the Department/School, Faculty and University.
E12	Excellent verbal and written skills, with ability to listen, engage and persuade, and to present complex information in an accessible way to a range of audiences.
E13	An excellent team player, with excellent interpersonal and communication skills, and political acumen
E14	Ability to work autonomously and plan and prioritise own workload
E15	Proven, advanced analytical and problem solving capability, including the ability to devise creative solutions to issues which are unprecedented

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 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 as well as a Research Plan outlining your research strategy for the next 5 years. 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 Professor Graham Wren, Special Advisor to the Principal and Major Projects Director, (graham.wren@strath.ac.uk).

Conditions of Employment

Conditions of employment relating to the Academic 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](#).

Pre-employment health screening

An offer of appointment will be subject to a medical assessment by Occupational Health. An individual who accepts an offer of employment must complete a confidential medical questionnaire and forward it to the Occupational Health Nurse within 5

days of receipt. If further information is required the individual may be contacted by the OHN or a Medical Advisor and a personal appointment with the individual may be arranged. An unconditional contract of employment will not be issued until Human Resources receives confirmation that applicant is fit to undertake the duties of the post.

Probation

Where applicable, the successful applicant will be required to serve a 12 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 expected to be held in January 2024.

Equality and Diversity

We value diversity and welcome applications from all sections of the community.

The University currently holds a Bronze Athena SWAN award, recognising our commitment to advancing gender equality in academia across all academic disciplines and professional and support functions.

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.

