

Research Associate

Department	Naval Architecture, Ocean and Marine Engineering (www.strath.ac.uk/naome/)		
Faculty	Faculty of Engineering (www.strath.ac.uk/engineering/)		
Staff Category	Research	Reference No	243201
Reports To	Dr Rafet Emek Kurt	Grade:	7
Salary Range:	£32236 - £39609	Contract Type:	Fixed Term (Until 31 May 2022)
FTE:	1	Closing Date	29/09/2019

Job Advert

This is a unique opportunity to join an internationally leading Maritime Human Factors group based at the University of Strathclyde and work on the EU H2020 SAFEMODE project which brings together the key stakeholders across the Aviation and Maritime sectors.

SAFEMODE Project:

SAFEMODE is a ~10 million euros, 3 years project, carried out by a consortium of 33 partners from all over world mainly from the EU, Russia, China, Indonesia and the Philippines. This project is funded by the EU H2020 scheme and the main aim of SAFEMODE project is to develop a novel HUMAN Risk Informed Design (HURID) framework in order to identify, collect and assess Human Factors data to inform risk-based design of systems and operation in aviation and maritime transport.

The focus will be to reduce risks for safety critical situations, (e.g. mid-air collisions, grounding, evacuation, runway excursions etc.) through the enhancement of human performance. This will be achieved through investigation of past accidents, incidents, near-misses, reports, data from everyday operations, including previously unknown uncertainties such as increasing levels of automation and increased number of drones in transportation. Full details of the SAFEMODE project including full list of partners can be found through the following link (<https://cordis.europa.eu/project/rcn/223570/factsheet/en>).

NAOME Department:

The Naval Architecture, Ocean and Marine Engineering department of the University of Strathclyde is a key provider of innovative and useful research for the maritime, oil and gas and marine renewables industries across the world. Further info can be found here: <https://www.strath.ac.uk/research/subjects/navalarchitectureoceanmarineengineering/>.

About the Post:

As a Research Associate, you will play a key role in SAFEMODE project, by bringing your expertise in risk assessment, modelling and safety management (especially in modelling of human risk and reliability). In the project you will require to work with historic data including creation of databases and qualitative and quantitative analyses. Although it is not essential, knowledge or experience in advanced approaches such as text mining, machine learning etc. would be advantageous and in order to deal with these tasks good programming skills are required.

The appointee will join a multidisciplinary international team with industrial partners coming from EU and beyond, and as such you may be required to travel for project meetings and to undertake specific research activity.

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 naval architecture and/or ocean engineering 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.

Job Description

Brief Outline of Job:

To undertake SAFEMODE project as well as other relevant projects 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 appropriate discipline

D1 Membership of relevant Chartered/professional bodies (including Higher Education Academy).

Experience

E2 Sufficient breadth or depth of knowledge in safety science in transport including risk assessment and human reliability modelling to contribute to research programmes and to the development of research activities.

E3 Sufficient breadth or depth of knowledge in statistical modelling and data analysis including big data.

E4 Sufficient breadth or depth of knowledge in relevant programming languages to contribute to research programmes and to the development of research activities.

D2 Sufficient breadth or depth of knowledge in dealing with Big Data including text mining, machine learning and artificial intelligence,

D3 Some relevant work experience in above topics

D4 Familiarity with maritime operation covering human factors and maritime safety

D5 Experience of relevant student supervision and teaching activities

D6 Experience of knowledge exchange related activities

D7 Experience in research project management and periodic reporting

Job Related Skills and Achievements

E5 Developing ability to conduct individual research work, to disseminate results and to prepare research proposals.

E6 Ability to plan and organise own workload effectively

E7 Ability to work within a team environment

E8 Good publication record in high quality journals

E9 Excellent academic writing and research reporting

Personal Attributes

E10 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

Other Relevant Factors

E11 Ability to travel internationally at short notice

Application Procedure

Applicants are required to complete an application form including the name of three referees who will be contacted before interview 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 Dr Rafet Emek Kurt, Senior Lecturer (rafet.kurt@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](#).

PVG Check

This position involves regulated work, making it a legislative requirement that the successful candidate becomes a member of the Protection of Vulnerable Groups Scheme. If appointed, employment with the University will not be confirmed, until membership of the Scheme has been received. The successful applicant will be precluded from working with protected groups until that time.

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.

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 women's careers in science, technology, engineering, maths and medicine (STEMM) employment in academia.

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.

