Job Description and Person Specification

JOB DESCRIPTION

Post title:	Senior Research Fellow		
School/Department:	Web and Internet Science: Web Science Institute		
Faculty:	Engineering and Physical Sciences		
Career Pathway:	Education, Research and Enterprise (ERE)	Level:	5
*ERE category:	Research pathway		
Posts responsible to:	Principal Investigator		
Posts responsible for:			
Post base:	Office-based		

Job purpose
To plan, deliver and carry out high quality research for the Cyberphysical Social Machines (CP-SOCIAM) project, which is one of the Foundational Catalyser Projects being delivered under the PETRAS National Centre of Excellence for IoT Systems Cybersecurity research collaboration, comprising 12 universities. The consortium will work together to explore critical issues in privacy, ethics, trust, reliability, acceptability, and security. Under the supervision of the Principal Investigator and Co-Investigator, the post holder will undertake leadership, management and engagement activities in order to develop and enact research plans which are consistent with the project's overall aims.

Key accountabilities/primary responsibilities		% Time
1.	The primary focus will be to plan, project manage and deliver high-quality research activities using a combination of in-the-wild experimentation with monitoring data from IoT devices and existing social machines to study the emergence of cyberphysical social machines. This will include the development and engagement of research methodologies that add to the knowledge and understanding of the research project.	65 %
2.	Establish a national reputation by the regular dissemination of findings by taking the lead in preparing publication materials for peer-reviewed journals, presenting results at conferences and at PETRAS consortium meetings and events.	10 %
3.	Identify sources of research funding and secure funds through planning, developing and contributing to the writing of bids for research funding.	5 %
4.	Collaborate on and develop original research with colleagues in partner institutions and organisations across PETRAS.	5 %
5.	Assist the Principal Investigator, Co-Investigator and Project Manager in carrying out technical, management and administrative tasks, including risk assessment of project activities, organisation of project meetings and preparation of reports. Oversee and implement procedures required to ensure accurate and timely formal reporting.	5 %

Key accountabilities/primary responsibilities		% Time
6.	Provide expert advice in own subject area to other staff and students.	5 %
7.	Any other duties as allocated by the Principal Investigator and Co-Investigator following consultation with the post holder.	5 %

Internal and external relationships
Perform collaborative research with the other 11 university partners and with the PETRAS industry project partners. Responsible for presenting reports to project funders and project partners.

Special Requirements
To be available to participate in meetings and project events, as required. To attend national and international conferences for the purpose of disseminating research results

PERSON SPECIFICATION

Criteria	Essential	Desirable	How to be assessed
Qualifications, knowledge and experience	PhD or equivalent professional qualifications and experience in Computer Science, Web Science or related discipline. Growing and consistent national reputation in Computer Science or related discipline. Track record of published research in peer-reviewed journals and conferences. Significant experience in Computer Science, Web Science or related discipline.	Knowledge of web science and web technologies, web analytics, decentralised systems, linked and open data, privacy, trust and provenance, social computation, Internet of Things.	
Planning and organising	Proven ability to organise a range of high quality research activities to deadline and quality standards, ensuring plans complement broader research strategy. Proven ability to develop innovative research proposals and attract research funding.		
Problem solving and initiative	Able to identify broad trends to assess deep-rooted and complex issues. Able to apply originality in modifying existing approaches to solve problems.		
Management and teamwork	Able to work effectively in a team, understanding the strengths and weaknesses of others to help teamwork development.		
Communicating and influencing	Able to communicate new and complex information effectively, both verbally and in writing, engaging the interest and enthusiasm of the target audience. Track record of presenting research results at project meetings and conferences. Able to persuade and influence at all levels in order to foster and maintain relationships. Able to provide expert guidance to colleagues in own team, other work areas and institutions to develop understanding and resolve complex problems.		
Other skills and behaviours	Compliance of relevant Health & Safety issues.		

	Positive attitude to colleagues and students.		
Special requirements	Able to attend national and international conferences to present research results To be available to participate in meetings and project events, as required.		

JOB HAZARD ANALYSIS

Is this an office-based post?

☒ Yes	If this post is an office-based job with routine office hazards (eg: use of VDU), no further information needs to be supplied. Do not complete the section below.
☐ No	If this post is not office-based or has some hazards other than routine office (eg: more than use of VDU) please complete the analysis below. Hiring managers are asked to complete this section as accurately as possible to ensure the safety of the post-holder.

- HR will send a full PEHQ to all applicants for this position. Please note, if full health clearance is required for a role, this will apply to all individuals, including existing members of staff.

ENVIRONMENTAL EXPOSURES	**Occasionally** (<30% of time)	**Frequently** (30-60% of time)	**Constantly** (> 60% of time)
Outside work			
Extremes of temperature (eg: fridge/ furnace)			
## Potential for exposure to body fluids			
## Noise (greater than 80 dba - 8 hrs twa)			
## Exposure to hazardous substances (eg: solvents, liquids, dust, fumes, biohazards). Specify below:			
Frequent hand washing			
Ionising radiation			
EQUIPMENT/TOOLS/MACHINES USED			
## Food handling			
## Driving university vehicles(eg: car/van/LGV/PCV)			
## Use of latex gloves (prohibited unless specific clinical necessity)			
## Vibrating tools (eg: strimmers, hammer drill, lawnmowers)			
PHYSICAL ABILITIES			
Load manual handling			
Repetitive crouching/kneeling/stooping			
Repetitive pulling/pushing			
Repetitive lifting			
Standing for prolonged periods			
Repetitive climbing (ie: steps, stools, ladders, stairs)			
Fine motor grips (eg: pipetting)			
Gross motor grips			
Repetitive reaching below shoulder height			
Repetitive reaching at shoulder height			
Repetitive reaching above shoulder height			
PSYCHOSOCIAL ISSUES			
Face to face contact with public			
Lone working			
## Shift work/night work/on call duties			