

# Job Description & Person Specification

Academic and Research roles

## JOB DESCRIPTION

<b>Job title</b>	Research Fellow
<b>School/Department</b>	CEPS
<b>Division (if applicable)</b>	Computing
<b>Programme (if applicable)</b>	
<b>Location</b>	Paisley
<b>Reporting to</b>	Prof Jose M. Alcaraz Calero
<b>UWS grade</b>	AC2.1
<b>FTE</b>	YES

### Job summary

The postholder is required to play an active, full-time, and leading role at the postdoctoral level for specific R&D activities related to beyond 5G network management in the UWS Beyond 5G Hub. The postholder will be committed to fulfil the targets on investigating, implementing, evaluating intelligent beyond 5G networking technologies and lead the development of the end-to-end, closed-loop approach for autonomous 5G/6G network operation especially for cybersecurity management. The postholder will focus on the EU RIGOUROUS project, whilst contributing to other relevant tasks in other projects in the UWS Beyond 5G Hub.

### People & finance responsibilities

<b>People</b>	The postholder does not hold responsibilities in people, except managing the working relationships with other team members.
<b>Finance</b>	The postholder does not hold responsibilities in finance, except claiming expenditures from approved business trips and/or raising purchase orders after approval from the line manager.

### Key activities

1. Play a leading role in the R&D activities for the UWS components in RIGOUROUS to fulfil all the technical requirements as planned.
2. Play a leading role in the integration activities in line with the UWS role in RIGOUROUS in achieving the closed-loop autonomous solution for advanced cyber management.
3. Contribute to the projects' deliverables associated with the above activities.
4. Represent the UWS team wherever appropriate in projects' meetings/telcos.
5. Lead the preparation of the demos and presentations for the projects' meetings, review events and other events.

6. Disseminate the research outputs to the academic and industry communities through publications in international journals and conferences, and demos/posters in relevant events.
7. Contribute to relevant tasks of other projects on demand.
8. Support the projects' teams in related scholarly activities, and assist postgraduate research students where necessary (for example in the understanding of the facilities and software).

## Job scope

<b>Planning and organising</b>	The work plan will be allocated by the supervision team shortly after the arrival of the postholder, and progress and minor changes to the work plan will be discussed at regular weekly meetings with the postholder. The post holder will be required to use his/her knowledge and experience in organising and prioritising the tasks.
<b>Decision making</b>	On a day-to-day basis, the postholder will be required to take decisions and use his/her professional judgement in relation to the progress of the tasks. Any significant changes in the technical approach will be discussed at the weekly meetings.
<b>Working relationships – Liaison and Networking</b>	On a day-to-day basis, the postholder will be required to liaise with the team and external project partners in advancing the integration activities.
<b>Working relationships – Communication</b>	On a day-to-day basis, the postholder will be required to communicate with the other team members in discussing the integration activities. The postholder will also attend projects' telcos and present progress/results to project partners.
<b>Working relationships – Teamwork</b>	The postholder will be expected to use his/her professional experience to work with and assist the other team members, associated postgraduate research students, and external project partners.
<b>Working relationships – Pastoral Care</b>	The postholder should discuss any pastoral care related issues with the supervision team for mental health and other concerns.
<b>Working relationships – Managing People</b>	The postholder will support research assistants and associated postgraduate research students.

# PERSON SPECIFICATION

## Qualifications

			<b>Evidence</b> A = Application I = Interview
<b>Essential</b>	<b>QE1</b>	PhD degree in Computer Science, Networks, Telecommunications, Electronic & Electrical Engineering or related areas (including PhD candidates who have submitted their PhD theses and expect to pass their viva soon) , or equivalent industry experience	A
	<b>QE2</b>		
<b>Desirable</b>	<b>QD1</b>		
	<b>QD2</b>		

## Experience

			<b>Evidence</b> A = Application I = Interview
<b>Essential</b>	<b>EE1</b>	Proven successful experience of designing and implementing 5G or cybersecurity related networking solution(s) through software development.	A and I
	<b>EE2</b>	Proven successful experience in integrating different components together to create a complete system.	A and I
	<b>EE3</b>	Proven successful experience in creating demos for a functional ICT system.	A and I
	<b>EE4</b>	Proven successful experience of working in a project involving teamwork.	A and I
	<b>EE5</b>	Experience of publishing academic papers in peer-reviewed journals.	A
<b>Desirable</b>	<b>ED1</b>	Experience of working in an EU project.	A and I
	<b>ED2</b>	Experience of working related to radio access networks.	A and I
	<b>ED3</b>	Experience of working related to AI.	A and I

## Skills

			<b>Evidence</b> A = Application I = Interview
<b>Essential</b>	<b>SE1</b>	Proficient programming skills to implement networking solutions.	A and I
	<b>SE2</b>	Presentation skills for meetings/telcos.	A and I
<b>Desirable</b>	<b>SD1</b>	Emulation/simulation skills for complex networking scenarios.	A and I

	<b>SD2</b>		
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## Knowledge

			<b>Evidence</b> A = Application I = Interview
<b>Essential</b>	<b>KE1</b>	Good knowledge in 5G and beyond networks.	A and I
	<b>KE2</b>	Knowledge in intelligent networking systems.	A and I
	<b>KE3</b>	Knowledge in cybersecurity.	A and I
<b>Desirable</b>	<b>KD1</b>	Knowledge of relevant 5G R&D platform(s).	A and I
	<b>KD2</b>	Knowledge of relevant AI technologies.	A and I

## Behaviours

			<b>Evidence</b> A = Application I = Interview
<b>Essential</b>	<b>BE1</b>	Full commitment to the work	I
	<b>BE2</b>	Ability to work independently and also as part of a team	A
	<b>BE3</b>	Ability to be organised and self-motivated	I
	<b>BE4</b>	Ability to communicate effectively	I
<b>Desirable</b>	<b>BD1</b>		
	<b>BD2</b>		

<b>Created/Updated (mm/yy):</b>	<b>18/10/2024</b>
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