

Job Description and Person Specification (HR5)

Job Description					
Academic Unit/Department:	FEE/ISVR/SPCG				
Post Title:	Research Fellow				
Career Pathway and Level:	ERE 4	TAE	MSA	CAO	
ERE Category	Academic Posts			Non-Academic Posts	
	Academic	Research x	Teaching	Enterprise	Education Development
Post Responsible to (and Level):	Thomas Blumensath (level 5)				
Posts Responsible for (and Level):	n/a				
Job Purpose: To undertake research in accordance with the specified research project under the supervision of the award holder.					

Key Accountabilities/Primary Responsibilities (6-10 bullet points maximum)	% Time
1. To undertake research under the supervision of the grant holder on a project to develop novel signal processing strategies to exploit structure in data matrices.	60
2. Regularly disseminate findings by taking the lead in preparing publication materials for referred journals, presenting results at conferences, or exhibiting work at other appropriate events.	10
3. Contribute to the writing of bids for research funding.	5
4. Investigate models and approaches to test and develop them.	5
5. Collaborate/work on original research tasks with colleagues in other institutions.	5
6. Carry out administrative tasks associated with specified research funding, for example risk assessment of research activities, organisation of project meetings and documentation. Implementation of procedures required to ensure accurate	5

<p>and timely formal reporting and financial control.</p> <p>7. Supervise the work of junior research staff.</p> <p>8. Carry out occasional undergraduate supervision, demonstrating or lecturing duties within own area of expertise, under the direct guidance of a member of departmental academic staff.</p>	<p>5</p> <p>5</p>
<p>Internal & External Relationships: (nature & purpose of relationships)</p> <p>Direct responsibility to holder of research award or academic supervisor. May have additional reporting and liaison responsibilities to external funding bodies or sponsors. May be asked to serve on a relevant Academic Unit committee, for example research committee. Collaborators/colleagues in other work areas and institutions.</p>	
<p>Special Requirements:</p> <p>To be available to participate in fieldwork as required by the specified research project. To attend national and international conferences for the purpose of disseminating research results.</p>	

Person Specification			
Criteria	Essential	Desirable	How to be assessed
Qualifications, Knowledge and Experience: PhD in Signal Processing, applied mathematics or related area Strong background in mathematics Detailed understanding and knowledge of compressed sensing and matrix completion Knowledge of MATLAB Experience in fMRI analysis	 ✓ ✓ ✓ ✓	 ✓ ✓	Application and interview
Planning and Organising: Able to organise own research activities to deadline and quality standards	✓		Application and interview
Problem Solving and Initiative: Able to develop understanding of complex problems and apply in-depth knowledge to address them Able to develop original techniques/methods	✓ ✓		Application and interview
Management and Teamwork: Able to supervise work of junior research staff, delegating effectively Able to contribute to Academic Unit management and administrative processes Work effectively in a team, understanding the strengths and weaknesses of others to help teamwork development	 ✓	✓ ✓	Application and interview
Communicating and Influencing: Communicate new and complex information effectively, both verbally and in writing, engaging the interest and enthusiasm of the target audience	✓		Application and interview

Able to present research results at group meetings and conferences	✓		
Able to write up research results for publication in leading peer-viewed journals	✓		
Work proactively with colleagues in other work areas/institutions, contributing specialist knowledge to achieve outcomes	✓		
Other Skills and Behaviours:			Application and interview
Understanding of relevant Health & Safety issues	✓		
Positive attitude to colleagues and students	✓		
Special Requirements:			Application and interview
Able to attend national and international conferences to present research results	✓		

[Type text]

O - Occasionally (up to 1/3 of time); **F - Frequently** (up to 2/3 of time); **C - Constantly** (more than 2/3 of time) ## denotes to HR the need for a full PEHQ to be sent to all applicants for this position.

FOR ACADEMIC UNIT/SERVICE USE ONLY	ResourceLink Post Number		
Which post does this job report to			
Is this post a Line Manager?	Yes		No
If yes, which posts directly report into it?	ResourceLink Post Number		
Post 1			
Post 2			
Post 3			
Post 4			
Post 5			
Post 6			
Post 7			
Post 8			
Please add additional rows as required			