

Researcher Job Details

Research Assistant/Associate in Data-Centric Engineering

School of Mathematics, Statistics and Physics

Faculty of Science, Agriculture & Engineering

Research Role Profile

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As part of our commitment to career development for research staff, the University has developed 3 levels of [research role profiles](#). These profiles set out firstly the generic competences and responsibilities expected of role holders at each level and secondly the general qualifications and experiences needed for entry at a particular level.

Specific Responsibilities of Position

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1. To perform innovative research in any aspect of data-centric engineering. This includes, but is not limited to, the abstract development of statistical methods and/or the analysis of existing methods in an engineering context.
2. To disseminate research through publication in appropriate and high-quality peer-reviewed journals.
3. To present research findings at national and international conferences and scientific meetings.
4. To engage with researchers on the Lloyd's Register Foundation programme on data-centric engineering at the Alan Turing Institute, the national institute for data science and artificial intelligence for the UK.
5. To contribute to the positive and collegial research environment in Prof. Oates' research groups at Newcastle University and the Alan Turing Institute, through both collaborative research discussions and participation in reading groups and workshops.

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Person Specification

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		Essential or Desirable
	Qualifications	
1	PhD in Statistics, or a related technical discipline such as Mathematics or Engineering (in submission or awarded)	Essential
	Knowledge, Skills and Experience	
1	Ability to publish own research in good quality scientific journals	Essential
2	Proven capacity to undertake original research and present findings	Essential
3	Excellent awareness of their research field and a clear vision for a programme of research that you would seek to develop in this post	Essential
4	Expertise in the development and/or assessment (empirical or theoretical) of numerical and/or statistical methods	Essential
5	Strong scientific computing skills or mathematical skills	Essential
6	Excellent written and oral communication (in English)	Essential
7	Effective time management	Essential
8	Skilled in functional analysis, applied probability, numerical analysis, theoretical statistics, or similar	Desirable
9	Proficiency in a scientific programming language such as Python, R, Matlab, or similar	Desirable
10	Experience in the successful supervision of research students, and/or other forms of academic leadership such as workshop organisation	Desirable
	Attributes/Behaviours	
1	Ability to interact with researchers with different backgrounds, at all levels, from across the University	Essential
2	Comfortable working both individually and as part of a team	Essential
3	Willingness to take initiative and self-start	Essential
4	Ability to travel nationally, between Newcastle University and the Alan Turing Institute	Essential

HR Office Use Only	
SAP Position Number:	
Grade:	Choose an item.
Effective Date:	Click here to enter a date.