

## Researcher Job Details

# Research Assistant / Associate in Design and Bio Computation

## School of Architecture, Planning and Landscape

## Faculty of Humanities and Social Sciences

### 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. Lead in the development of computational models and visualisations using Processing and other equivalent software based on data from the project.
2. Support the development of new design concepts, graphics and exhibition work from the project.
3. Support the development of the new Design Lab at Newcastle University.
4. Publish original research in international conferences and journals.
5. Help develop new funding bids and support the growth of the research group.
6. Coordinate multidisciplinary research group activities.

### Person Specification

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		Essential or Desirable
	<b>Qualifications</b>	
1	2.1 degree (or equivalent) in Architecture, Civil Engineering (or combination) or subjects related to material based design computation or similar.	E

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2	Master in Architecture, design, design computation, emerging technologies or similar.	E
3	PhD in Architecture (or nearing completion), design, design computation, emerging technologies or equivalent	E
<b>Knowledge, Skills and Experience</b>		
1	Demonstrable interest in Biology/ Microbiology/ Biotechnology.	D
2	Substantial experience using the Processing programming environment for design and 3D visualisation.	E
3	Skills in additional design and visualisation environments such as Rhino/Grasshoper etc.	D
4	Creative design and graphical skill demonstrable through a design portfolio.	D
5	3D printing and digital fabrication skills.	D
<b>Attributes/Behaviours</b>		
1	Communication skills and ability to describe complex concepts to non-experts.	E
2	Good team working ability to work with people across many different fields.	E
3	Flexibility and adaptability to a challenging research environment.	E
4	Available for international travel	E

<b>HR Office Use Only</b>	
<b>SAP Position Number:</b>	
<b>Grade:</b>	F
<b>Effective Date:</b>	21/03/2019