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<tr>
<th><strong>Job Title:</strong> Research Associate</th>
<th><strong>Grade:</strong> 6</th>
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<td><strong>Duration:</strong> Fixed term until 31st March 2022</td>
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<td><strong>Department/College:</strong> Lancaster Institute for the Contemporary Arts</td>
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<td><strong>Directly responsible to:</strong> Dr Adam Blaney (Project Principal Investigator)</td>
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<td><strong>Supervisory responsibility for N/A</strong></td>
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**Other contacts:**
- **Internal:** Colleagues and students in ImaginationLancaster, Lancaster Institute for the Contemporary Arts and the Faculty of Arts and Social Sciences, together with colleagues in other faculties, the Library, ISS, central administration, and other relevant university actors.
- **External:** UKRI, professional bodies, employers, business organisations, local and UK government organisations, community groups, academic and research networks.

**Job purpose:**
The purpose of this research position is to work with the research team, through iterative physical and digital prototyping, to investigate and develop physically adaptive materials/structures that can be re-programmed at high material resolutions. In doing so, novel design and fabrication approaches will be developed that question and address issues of material waste/sustainability, redundancy and the future of physically adaptive structures.

**Major Duties:**
- Develop interfaces and incorporate sensors into a system to inform material properties generated
- Iteratively collaborate with chemistry to determine and develop multi-material properties outlined by our industry partner and investigate material interactions via interface development
- To apply technical expertise (software/hardware, Arduino, Processing, 3D prototyping and making) to develop a tangible interface for a final prototype demonstration
- To work with the PI and CoI to develop the project and a strategy to evaluate the demonstrator prototype via weekly discussions based on iterative prototyping/testing.
- Support with the testing and documentation of novel material abilities via photography and videography to generate outputs, to a high standard, that can be widely shared
- To support completion of project deliverables in an organised and timely manner.
- To participate and organise project meetings as well as meetings with external partners. Tasks to include preparation and presentation of talks and active participation in discussions.
- Contribute to the authoring of academic articles and other publications arising out of the project (e.g. posters, demonstrations, pictorials, journal articles).
- To communicate research to a wide audience.