



# Digital Technology Internship Placement

## Employer Information:

'Made Smarter' is a Government funded programme, matching your expertise, skills, and insight to help North West businesses implement digital tools. You will be working on a live project while gaining valuable experience for your C.V.

**Placements are open to 3<sup>rd</sup> and 4<sup>th</sup> Year Undergrads, MSc, and Postgraduate Students**

## Placement Information

<b>Job Title:</b> <b>Reference: 15004Z</b>	Robotics/3D Research Project
<b>Business Overview</b>	<p>The company is a multi-disciplinary creative studio. Creating objects, structures, and experiences in the form of large-scale artworks, public art installations, bespoke sculptural commissions, interiors, custom made furniture art, as well as design style experiences and brand promotional objects.</p> <p>They have always had a commitment to combine traditional handcraft techniques with more modern cutting-edge technologies. This allows the opportunity to explore new concepts in the world of art and design, to explore the boundaries between art and design by using them to tell a story and produce pieces that are site specific and unique.</p>
<b>Location:</b>	Denton, M34 3RG
<b>Number of posts:</b>	ONE
<b>Job Description:</b>	<p><b>Project overview:</b></p> <p>One of their core values is that of combining traditional hand-crafted processes with the latest in technological advancements. Having a skilled intern who can look at the machinery and push its capabilities to its full potential would be a fantastic asset.</p> <p>Successful candidate should be able to understand the extent of the possibilities that the automated machinery can reach, to work with the studio in developing new products utilising the capabilities of the machinery.</p> <p><b>Proposed Work Plan:</b></p> <ol style="list-style-type: none"><li>1. Introduction to the company including values, ethics, and team.</li><li>2. Introduction to the 6 axis ABB Robot arm.</li><li>3. Plan to integrate 3 different tooling's with appropriate software for each. (Meeting with MD and employees involved to draft together a plan of how to do this).</li></ol>

	<p>4. On the job learning and training to implement the 3 different tooling's to experiment with what can be achieved.</p> <p>5. Look at automating a set of designs.</p> <p>6. Develop a system to create an automated line of products working with the studio team.</p>
<b>Expected areas of knowledge:</b>	<p>Experimentation is a key objective to this project, so it is necessary to have an inquisitive and empirical state of mind.</p> <ul style="list-style-type: none"> <li>- Robotics and systems knowledge are essential.</li> <li>- Working knowledge of high-level programming languages</li> <li>- Understanding of electrical control design circuitry</li> <li>- Electrical troubleshooting</li> <li>- Working knowledge of PLC programming</li> <li>- Complex problem-solving skills.</li> <li>- Tech savviness; practical knowledge of technology, in particular the world of robotics.</li> <li>- Programming mindset- should help to solve any issues quickly and efficiently.</li> <li>- Experience of 'Robo DK', would be ideal, but not essential if willing to learn.</li> <li>- Adaptability and flexibility- robotic software can be inflexible so someone with the capability to stay calm under pressure would be a bonus.</li> <li>- Critical thinking- something a robot doesn't process!</li> <li>- Ability to learn new technologies. Learning and focusing on new technologies and to stay ahead of latest developments and trends in the industry.</li> <li>- Working as a team. It is essential that you can work closely and confidently within a team of diverse and creative people.</li> </ul>
<b>Salary:</b>	£12.00 p/h (£5,760 per placement)
<b>How to apply:</b>	By e.mail to Amanda Lyons, Made Smarter DTI Placement Manager at: <a href="mailto:amanda.lyons@growthco.uk">amanda.lyons@growthco.uk</a>
<b>Placement Start Date:</b>	As soon as possible
<b>Duration of Placement:</b>	480 Hours on a full-time, part-time, or flexible schedule
<b>Additional Info:</b>	<p>You will be required to register your interest in a Digital Technology Internship with Made Smarter on our website at: <a href="http://www.madesmarter.uk">www.madesmarter.uk</a></p> <p>C.V's can be uploaded at the point of registration or sent directly. Your details will be stored to allow us to contact you for any future suitable opportunities.</p>