

# MADE SMARTER Digital Technology Internship Placement

## Programme 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>	<p><b>Assessing, testing and analysing the potential for optimising our production process through the use of additive technology.</b></p> <p><b>Reference: 1971Z</b></p>
<b>Business Overview</b>	<p>A UK based manufacturer of protective enclosure solutions with a strong customer service approach. Their portfolio ranges from outdoor enclosures for passive and active network nodes, indoor racks in 19", ETSI and ANSI formats, hot and cold aisle containment, and cable management systems, through to complex bespoke mechanical and electrically integrated solutions.</p> <p>From initial concept, through to final production in high volume, they partner leading enterprises for original design and manufacture of protective enclosure solutions.</p>
<b>Location:</b>	
<b>Number of posts:</b>	ONE
<b>Job Description:</b>	<p><b>Project Overview:</b></p> <p>This project will involve an analysis of our current product engineering and design and explore the application of additive manufacturing techniques</p> <p>The first phase of this project will be to explore all four areas detailed below and analyse the opportunities of each and the potential of the technology to enhance, productivity, quality and design or reduce environmental impact, cost, waste or time.</p> <ol style="list-style-type: none"> <li>1. Understanding the range of technologies available and the viability, scope and potential for introducing them as in-house for our design, development and manufacture stages to replace conventional production processes.</li> <li>2. Provide additional or alternatives production options for existing product range. Either in-house or using external specialists.</li> <li>3. Replace an existing production process for the production of component in our current product range. Either in-house or using external specialists.</li> <li>4. Enable the production of new innovative components, products or to replacement parts that aren't feasible or even possible to manufacture using existing production methods.</li> </ol> <p>This project will maintain a focus around our flagship product 'The Pen' to ensure we can clearly explore the potential and make judgements against real world scenario.</p>

	<p><b>The work plan:</b></p> <p>Working with 3D software and</p> <ol style="list-style-type: none"> <li>1. Stage 1 - Analyse our existing product and identify potential for improvements and enhancements. Match suitable technologies with each of the 4 key areas and present an overview of technologies alongside analysis in the form of report</li> <li>2. Stage 2 - identify a project and technology to explore, test and assess for each of the key areas. Create a proposal and plan.</li> <li>3. Stage 3 - Execution of plan - Design and create a component sample using 3D software and produce a sample using additive technology. The sample should showcase the potential for each technology and the relevant opportunity for each of the key areas.</li> <li>4. Stage 4 - Produce a short report on the results vs traditional methods. This should be presented in a short document alongside a set of physical samples.</li> <li>5. Stage 5 - Identify a project/s to take into phase 2, the next phase will focus on developing 1-2 samples from phase 1 into a refined offering that has the potential to either be launched as a commercial product / result in purchase of technology / or a change in design, development and or manufacturing process.</li> </ol>
<p><b>Expected areas of knowledge:</b></p>	<ul style="list-style-type: none"> <li>• Strong knowledge and interest in 3D additive technology.</li> <li>• Product design and/or engineering experience / training / background.</li> <li>• Show capabilities using 3D CAD technology such as fusion360.</li> <li>• Knowledge of advanced manufacturing technology.</li> <li>• A keen interest in design and sustainability and material use.</li> <li>• Confident with a pen and pencil to sketch/draw and convey and present ideas.</li> <li>• Organised with the ability to analysis and create presentation documentation.</li> </ul>
<p><b>Salary:</b></p>	<p>£12.00 p/h (£5,760 per placement)</p>
<p><b>How to apply:</b></p>	<p>By email to the Organisation and Workforce Development team at Made Smarter :</p> <p><a href="mailto:ruth.hailwood@growthco.uk">ruth.hailwood@growthco.uk</a>  <a href="mailto:jude.honeyman@growthco.uk">jude.honeyman@growthco.uk</a>  <a href="mailto:Michael.hayes@growthco.uk">Michael.hayes@growthco.uk</a></p>
<p><b>Placement Start Date:</b></p>	<p>ASAP</p>
<p><b>Duration of Placement:</b></p>	<p>480 Hours on a full-time, part-time, or flexible schedule</p>
<p><b>Additional Info:</b></p>	<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 forwarded directly. Your details will be stored to allow us to contact you for any future suitable opportunities.</p>