



## Apprenticeship Event - Colleges Activity Day – Wednesday 20<sup>th</sup> November 2024

The aim of this event is to provide activities to inform College Students in years 12 and 13 of the possibilities on offer for their career at University and through Degree Apprenticeships. This event specifically focuses on STEM activities, with a wider range of information of courses and degree apprenticeship pathways also on display.

We are providing a number of practical STEM activities and experiences which we have linked together with an NHS health-related application, covering areas in Computer Science, Construction & Architecture, Engineering, Biomedical Sciences and Health/Nursing.

**Students will be encouraged to complete a worksheet on each below activities which will highlight transferable skills and knowledge of the sector.**

The activities will revolve around a hypothetical task where the Government is considering rolling out blood health check for the 40+ population. We will be looking at how we create the building space to house this process and what needs to be considered, taking and analysing a blood sample and how this links to Nursing, Engineering and Digital and Technology career pathways. How can we manufacture products, transport the samples for testing and what consideration need to be taken into account for the analysis of the blood (dummy samples) and the data processing across the individual stages.

Consideration for how to keep this data secure whilst communicating to multiple departments and how we solve challenges in the workplace is as important as the quality of all process stages.

There will also be consideration for sustainability as this is key for the future.

Can you meet all the challenges and complete all the stages?

In addition, we will have several current Apprentices and Employers from these sectors with the opportunity to ask them questions!

### Agenda

Times	Activity	Location
09:30	Registration	The Spark
10:00 – 10:20	<b>Welcome and Introduction (Housekeeping)</b> How to be successful in finding an apprenticeship - Cat Brook, Business Development Manager	Palmerston lecture Theatre
10:25 – 12:05	<b>Activities (below):</b>  <b>1. Session:</b> Creating a campaign for blood donation; develop a slogan - Digital Marketing	Classrooms (The Spark) and Palmerston

	<p><b>2. Session:</b> Facilities Design and sustainability; what needs to be considered when designing a ward – Architecture and Construction (Materials) -Construction Management</p> <p><b>3. Session:</b> Taking Blood; students will have the opportunity to practice on mannequin arms, Health and Nursing - Nursing</p> <p><b>4. Session:</b> Transportation of samples: coding of robots/ drones - Electronic Engineering</p>	
<b>12:05 – 12:20</b>	<b>BREAK</b> – 10 – 15 minutes refresh	The Spark
<b>12:20 – 13:00</b>	<p><b>5. Session:</b> Infrared Camera and heat tests on each other to see what different temperatures look like through the screen – Mechanical &amp; Manufacturing Engineering</p> <p><b>6. Session:</b> Data coding and cyber security; label coding and consideration of how to keep data safe in today’s digital world – Data Analyst and Software Engineer</p> <p><b>7. Session:</b> Blood Analysis: reviewing and assessing dummy samples and working out what condition each sample is (what would the sample look like through the lens of a microscope) - Biomedical Science</p>	Classrooms (The Spark) and Palmerston
<b>13:00</b>	<b>Lunch and networking with employers/ apprentices</b> – Students to bring your own lunch/ or purchase at the university (Refreshment vouchers offered to college staff)	University Food outlets
<b>14:15</b>	<b>Departure and college evaluation</b>	

**In an emergency, please contact our Estates Team on 07703207227**