

STEM Centre / Digital Innovation Hub

AstraZeneca

This project uses a building located in the centre of the site. Previously it was a meeting room which was underutilised. As a result this space has been refurbished for this project. This project will act as a central hub for the site to visit and explore all the new and innovative technologies which we could see providing huge potential business benefit. This space will also be used for STEM related activities as well. For example we can conduct STEM lessons or use the space to house work experience students who can play with and explore the technology.

Geographical area

Equipment will be located in Macclesfield, but can be taken out to schools and libraries for technology sessions.

Technologies / Equipment	Skills being Developed
<ul style="list-style-type: none">• 3D Printing and Designing• AR / VR Devices• Immersive Screen / Projector Wall• IoT Technology• Computer Vision	<ul style="list-style-type: none">• Coding and development working with technologies such as IoT or VR.• 3D Designing and development.• Helping people to understand technologies such as AR and VR but also how these technologies can be applied to business to provide business benefit.• Collaboration to work on problems and solve them as a team• STEM Lessons
Contact: George Scott george.scott@astrazeneca.com	

IOTA Carpe Diem & CreativeHUT

Our project operates to achieve the following 3 main Goals:

- Give lifelong learning experiences in STEAM to a minimum of 2,750 students per year
- Attract 260 local business per year to use the facilities and resources
- Build the STEAM pipeline from Warrington by supporting progress of students who want to develop a career with-in STEAM

Coding/AI, AR/VR, robotics, advanced engineering and prototyping kit is needed alongside the necessary programming software, computing hardware and AV resources to deliver exceptional STEAM training programmes. The equipment recommended has been carefully selected to cover the complete training lifecycle, supporting continuous learning programmes, from schools to upskilling and reskilling; catering for up to 20 students per session (per training room).

IOTA would be able to provide world class STEAM training for the local and regional economy; bringing together students, teachers, job seekers, the existing workforce and businesses to deliver an unrivalled programme of STEAM education, open to all, with clear pathways to thousands of exciting jobs and careers.

Geographical area

The equipment will initially be housed in Pyramid Arts Centre (Palmyra Square, Warrington) in order to provide direct public access under the destination working title of IOTA – Innovation Open To All. Further evolution of the project would see a full dedicate learning centre, funded by CreativeHUT / Carpe Diem being opened with-in Warrington town centre.

Technologies / Equipment	Skills being Developed
<ul style="list-style-type: none"> • STEAM (science, technology, engineering, arts, maths) resources for Foundation stage to Further Education • AV devices to support lesson and project capture • Supporting hardware such as laptops, ipads, digital devices • Classroom management tools included activity furniture and storage 	<ul style="list-style-type: none"> • 21st Century skills hitting the top 3 skills required for employment – problem solving, critical thinking and creativity as stated by World Economic Forum • Developing a mindset that will support the workforce development for next 20 years • Hands-on experience in STEAM • Activate career paths with high earning potential. • Teamwork. • Presentation and communication skills. • Practicing out of the box and creative thinking. • Creative pathways in to local/national business.
<p>Contact: Bill Carr bill.carr@carpe-diem.co.uk</p>	

The Digital Hub – Digital Doorstep Cheshire College South and West

An innovative and agile project that can provide schools, colleges and business with the opportunity to experiment with technology and ignite an interest in digital careers within a safe and supportive environment.

The project will facilitate the development of clear digital career pathways and lay the foundation skills required by today’s employers and future Industries.

The project focuses on developing and exploring skills and career pathways in the digital industry. Creating a portable package of specialist equipment to support the development of skills and career pathways. This includes equipment such as hand-held 3D scanners, 3D printers, 360-degree cameras and Virtual Reality/Augmented Reality headsets.

Inspiring users through the use of the portable technology, enhancing curriculum by identifying how technology is used within the workplace.

Businesses will also have use of the equipment, to support training and development of their workforce, and the option to try products before investing.

360-degree cameras when paired with VR and AR headsets allow learners to be transported to different settings that may otherwise be unobtainable. 3D scanners and printers allow for a hands-on experience of developments in the digital industries.

The portable package will be taken out to local schools, colleges, businesses and the wider community.

Geographical area

Equipment will be based at Cheshire College Crewe campus.

- Cheshire East.
- Cheshire West.

Aspects of the equipment will provide a mobile kit that can be taken into schools, colleges, businesses and to the wider community.

Technologies / Equipment	Skills being Developed
<ul style="list-style-type: none"> • XpertEye Glasses • VR Headsets • AR Headsets • 3D Scanner (Desktop) • 3D Scanner (Handheld) • 3D Printer • 360 Degree Camera • Laptops (High specification) • Tablets 	<ul style="list-style-type: none"> • Smart glasses - real time learning • Virtualisation • Scanning objects • Simple programming • 3D Printing • Discovery learning • Problem solving • Team working • Creativity
<p>Contact: Jackie Rogers jacqueline.rogers@ccsw.ac.uk</p>	

The Digital Hub – Project 4.0

Cheshire College South and West

The development of a Digital Hub that will contain specialist cutting-edge equipment to support the transformation and acceleration of Digital and Advanced Manufacturing skills across Cheshire and Warrington. The inspirational Digital Hub, in line with Industry 4.0 will be made available to all. A mobile training centre will provide outreach services to those areas of the region further away from the Digital Hub.

The College will provide courses to upskill and reskill existing workforces and work closely with schools and colleges to promote digital as the career choice to future workforces. Using both immersive virtual and augmented reality, we will be able to show the direct application of theory to practical problem solving within the production environment. In addition, we will demonstrate how the innovative application of digital technology and advanced manufacturing has completely changed the face of business operations improving productivity and effectiveness, providing sustainability and new platforms for business growth.

Geographical area

Crewe - Ellesmere Port - Chester

The portable equipment will be available for loan by businesses, schools, colleges or other groups across Cheshire & Warrington. Additional accessibility will be provided via the provision of a mobile learning centre, taking technology direct to businesses and educational establishments in rural areas.

Technologies / Equipment	Skills being Developed
<ul style="list-style-type: none"> • Robotics – (nano-bot) • Robotics – (walker kit) • Robotics – (humanoid) • Robotics – (4th generation robot) • Sensor kits (various) • Prototyping/production equipment • 3D Printer (Industrial composites) • 3D Printers (Plastics) • Microsoft Hololens • Z Space (combined VR/AR) • High-Tech Computers (latest generation Intel) • Tablets for e-learning • Coding equipment • Mobile training facility 	<ul style="list-style-type: none"> • Improved Digital skills • Programming • STEM skills • Prototyping • Additive manufacturing • Virtualisation • E-learning • Coding • Innovation • Critical thinking • Complex problem solving
<p>Contact: Jackie Rogers jacqueline.rogers@ccsw.ac.uk</p>	

Widening Access to Technology and Digital Skills

Cheshire College South and West, UTC Warrington and Warrington and Vale Royal

Jointly managed by Cheshire College South & West, Warrington Vale Royal and UTC Warrington. Working collaboratively with community organisations, raising awareness then educating individuals from identified neighbourhoods where there is little or no digital understanding and capability.

The project will facilitate access to technology empowering businesses and participants alike to gain confidence in digital applications, enabling full utilisation of their existing technology. Inspiring and engaging bitesize training will provide a passport onto Further Education. The project will assist the LEP to mitigate the economic downturn, delivering recovery through improvement of digital skills within the region and raising opportunities for employability.

Geographical area

All of Cheshire and Warrington.

The mobile equipment will bring technology to communities and businesses. Some of the equipment will be used to record training sessions, enabling remote digital skills training to take place at a time and venue to suit.

Technologies / Equipment	Skills being Developed
<ul style="list-style-type: none"> • Chromebooks and cases • iPads and cases • Charging trollies • Smartphones • 360 cameras, memory cards • Microphones with audio recording support • Tripods • Lighting kits • Laptops with editing software • Projection screens • HD unified Conference station 	<ul style="list-style-type: none"> • Entry level digital skills • Have a go with technology sessions to spark interest • Digital skills training to progress to level 3 courses • Exploring websites. • Using Social Media. • Creating podcasts or writing blogs. • Playing online games and quizzes. • Job searching and completing online job applications. • Online banking. • Using Skype or other video chat platforms. • Higher level specialist digital skills in qualifications / advanced manufacturing / robotics / additive manufacturing
<p>Contact: Jackie Rogers jacqueline.rogers@ccsw.ac.uk</p>	

Made.Digital

Live Wire and Culture Warrington

The digital creative skills we propose to build into our outreach programme are the ones highlighted by the Government and economists as being necessary for the workforce of the future and the critical thinking skills crucial to the development of digital economies, communications and smart cities. Young people will learn how to use technology to their benefit and understand how it works, and rather than being passive consumers of tablets or smart phones they will be able to create them and design equipment themselves. They make friends and connections and learn how to work in teams, all the time developing critical thinking skills needed for the creative industries and businesses of the future.

Stage 1 of the programme will consist of 3 strands of training workshops: Culture Warrington will create 10 bespoke training workshops (monthly) for 30 local artists and small business' ranging from simple word press and social media training to AR and coding designed to upskill local business and develop artists creativity.

Penketh Spark will create 10 bespoke training workshops for Warrington schools with education/ STEAM focus. Live Wire Warrington will develop specialist training workshops to library branches to upskill staff to deliver a varied programme of digital technology workshops throughout the borough.

Stage 2: Still to be developed following the outcome of stage 1 but will consist of the delivery of digital workshops in the community and school, working together to create wider opportunities such as paid work for artists, make fest.

Geographical area

The equipment will be based in Warrington Central Library, all equipment will be mobile and will be transported to community centre's, education and learning buildings and libraries. This also includes businesses in Birchwood Park, Omega Park, Daresbury SciPark.

The equipment will be transported to the 10 libraries listed below:

Penketh, Great Sankey Neighbourhood Hub, Culcheth, Woolston Neighbourhood Hub, Birchwood, Stockton Heath, Lymm, Orford, Warrington central and Burtonwood.

In addition, Warrington Library and the Museum and Art Gallery is in close proximity to Warrington Central Station and Warrington Bank Quay as well as M62, M56 and M6.

Technologies / Equipment	Skills being Developed
<ul style="list-style-type: none"> • 30 laptops/chromebooks • 2x Spectre pro development laptops • Ultimaker Printer • Einscan-SE 3D Scanner • Robotics and Physical computing kits • Circuit playground • Consumables for recycling and Museum in a box • 3d printing consumables – filament, spare nozzles • 5 x WIFI 4g 	<p>The skills this project will develop on a town wide basis are:</p> <ul style="list-style-type: none"> • Digital skills • Basic computer skills • Problem-solving skills • Negotiation skills • Technical skills • Coding skills • Employability skills • Critical thinking skills • Communication skills • Creativity & Design skills • Network & Connection skills • Programming and app development skills
<p>Contact: Leah Biddle lbiddle@culturewarrington.org</p>	

Macclesfield College Digital Skills Hub

Macclesfield College

The digital sector's important contribution to the economy is widely recognised. It is not only significant, but also disrupting traditional business models and providing support for other key industries in enabling them to be increasingly innovative and productive. The project intends to provide new opportunities to engage businesses and individuals in digital skills. It will focus on providing a range of learners, employers and businesses with programmes that will help to increase digital and STEM-related skills within the region.

In response to both national and regional feedback from businesses, and to achieve success for employers within Cheshire, the College's Digital Skills Hub will provide opportunities for a range of skills development and expertise. The project is split into five areas: agile project management; UX/UI user experience and user interface design; cyber-security; coding; and robotics. It will be for mixed use by both learners within an education setting and from businesses across the region, but will also include a mobile element which will prioritise the development of foundation skills that will underpin all essential digital skills.

The digital enhancements and programmes that will be offered and supported by the Hub will contribute towards the wider objective of linking the areas' digital capabilities to drive digital developments in key sectors across the economy. Through close collaboration with employers, the Hub will deliver more relevant and job-related training befitting the skills requirements. The Hub will also develop an outreach programme and community-based offer.

Geographical area

Macclesfield College Digital Hub will be based in a medium-sized college in a semi-rural area serving rural, semi-rural and urban localities. The project will impact upon learners, employers and businesses within a wide geographical span: from Macclesfield to Crewe and across to Poynton. Areas between these points will include Congleton, Holmes Chapel, Sandbach, Wilmslow, Knutsford, Alderly Edge, Adlington, Bollington, Mottram St Andrew, and Macclesfield.

The mobile element of the project will allow the movement of portable digital devices such as tablets (graphic and android), laptops, and android phones around a wide area.

Technologies / Equipment	Skills being Developed
<p>The project is investing in a range of equipment, most notably the following:</p> <ul style="list-style-type: none">• Tablets• Document Visualisers• Servers• Digital Skills Cloud Infrastructure• Computers and Monitors• Laser cutter• Resin 3D printer• CNC machines• PCB Milling machine• Electronic assembly equipment stations	<p>The following skills will be developed:</p> <ul style="list-style-type: none">• Small, bite-sized programmes for introductory digital skills• Agile project management skills development• Developing user experience• Interface design• Coding• Cyber-security• Wider robotics skills• Electronics• Wider digital manufacturing
<p>Contact: Lucy Reed Lucy.reed@macclesfield.ac.uk</p>	

Reaseheath Centre for Dairy Automation and Robotic Milking Reaseheath College

The Centre for Dairy Automation and Robotic Milking at Reaseheath College will respond to the skills needs of the dairy sector in Cheshire and Warrington, the north west region, and the wider dairy industry.

Cheshire has the second largest population, by county, of dairy cows in England with 93,000 adult breeding animals on around 450 farms. When neighbouring counties within one hour driving time of Reaseheath College are included, there are 295,000 adult breeding animals on some 1,600 farms (approximately 25% of the dairy cow population).

It is estimated that 900-1,000 farms in England and Wales are now using automatic milking systems (around 10% of all farms). Industry data indicates that 50% of dairy farms will need to move to robotic milking systems over the next 10 years in order to remain viable.

The dairy industry is facing significant challenges in attracting/recruiting trained and skilled labour for the robotic milking sector. This is expected to continue whilst at the same time, training, education and skills provision relating to automation, robotics and data management and use, throughout the region, is limited.

Potential employment opportunities within Cheshire and neighbouring counties may be as high as 800 digital and STEM skilled workers over a 10-year period. As such, the Centre at Reaseheath College will play a significant role in creating future high-quality jobs by providing people with the skills and training, as well as changing the mindset within the sector.

Geographical area

Reaseheath College, Nantwich, Cheshire. The equipment and facilities are located at Reaseheath College. There are no mobile facilities.

Technologies / Equipment	Skills being Developed
<ul style="list-style-type: none"> • Two robotic milking machines. • Animal handling facilities. • Nutrition, feeding, watering systems. • Data capture, processing and utilisation facility. 	<ul style="list-style-type: none"> • Training, education and skills provision relating to automation, robotics and data management and use. • New programmes of learning, bespoke training packages, CPD and workshops, and virtual and remote learning material for the emerging areas of digitalisation, robotics and data-driven dairy management.
<p>Contact: Simon Burgess Simon.Burgess@reaseheath.ac.uk</p>	

Reaseheath Vertical Farming Centre

Reaseheath College

Vertical farming is a relatively new but increasingly important method of food production where growing units are stacked vertically, and temperature, light, humidity, CO₂, nutrients and water are precisely supplied to growing plants under carefully controlled conditions. Vertical farming systems are data driven and use technologies such as LED lighting, hydroponic/aeroponic growing systems, robotics, automated environmental and nutrient control, and enhanced biosecurity, to optimise crop production.

Vertical farming systems can increase yields by up to 200% compared with traditional glasshouse operations. They allow produce to be grown in urban locations and on demand, contribute to food security (at a time of climate change and extreme weather events), reduce the footprint of production facilities (compared with glass houses/polytunnels), and can reduce fresh food waste by up to 90%.

There is estimated to be 700+ production horticulture businesses in the northwest, employing over 6,000 workers. An ageing workforce and recruiting/retaining staff skilled and competent in using digital and advanced systems/technologies, are real challenges.

The Reaseheath Vertical Farming Centre will grow a variety of salads, herbs and high value plants, including nutraceuticals, superfoods and phytonutrient-rich specialist crops. It will have sufficient scale, and will use technology, systems and processes, that are relevant to employers' operations, supporting career progression and ensuring that the training and education provided has real value and impact.

Geographical area

Reaseheath College, Nantwich, Cheshire. The equipment and facilities are located at Reaseheath College. There are no mobile facilities.

Technologies / Equipment	Skills being Developed
<ul style="list-style-type: none">• A total growing surface of around 200m², created through 3- and 4-tier units with "trays" 2-4m x 1m.• Each tier has LED lighting, with a hydroponic/aeroponic irrigation and nutrient system, and temperature control. Sensors.• Data capture, processing, management and utilisation Centre.	<ul style="list-style-type: none">• Training, education and skills provision relating to automation, robotics and data management and use.• New programmes of learning, bespoke training packages, CPD and workshops, and virtual and remote learning material, around around systems engineering (electrical, lighting, environmental control, irrigation, nutrition etc), cultivation, crop management, data collection and analysis, and biosecurity, to meet current and future needs of industry.
Contact: Simon Burgess Simon.Burgess@reaseheath.ac.uk	

High Performance Private Cloud

University of Chester

To build a client-server computing environment for mixed use by Industry and Education. The equipment will be split into two parts:

Private Cloud Server and Network estate (hosted within The University's Riverside Data Centre) for remote access by businesses/individuals from across Cheshire and Warrington). The cloud can host learning materials, allow learners access to software (which would usually be costly for an individual or SME's to purchase) and reduce the need for learners/trainers to travel.

Fixed and mobile client access devices, to help demonstrate to businesses and individuals the benefits of using the cloud – the project will buy and equip a van, including tablets/laptops, 3D scanners, drones and Hololense. The project can support other skills projects, via remote use of the private cloud, including the Accelerate project.

Geographical area

The project's services will be accessible from any location. For users that require access to workstations for educational use, they will be able to use the existing facilities at any of the University's campuses, subject to prior arrangement.

The mobile element of the project allows for businesses and individuals across the region to benefit from the equipment. This includes all FECs and rural areas of the LEP region, subject to demand and prior arrangement.

Technologies / Equipment	Skills being Developed
<ul style="list-style-type: none">• Virtual Desktop Infrastructure Cluster (VDI)• High Performance Computing Cluster (HPC)• Multiple concurrent client cloud configurations (OpenStack)• Mobile IT centre• 2 x FARO 320 3D scanners - These scanners have the capability to scan entire buildings, and two have been requested to optimise training opportunities/capability.• Drones	<ul style="list-style-type: none">• Cloud Computing• Computer Aided Design• 3D – Scanning, Visualization, Manufacture/Print• High Performance Computing• Data Science• Cyber Security• Video Conferencing and Online Collaboration• General ICT
Contact: Brian Fitzpatrick b.fitzpatrick@chester.ac.uk	

Cyber Security and Networking Lab

UTC Warrington

Our aim is to develop a portable computing lab that will allow for the teaching through a hands-on approach of a range of key computer science topic areas that will help to fill the skills shortage currently seen in the digital industries.

Primarily our project will help to develop skills around computer networking and security. The aim is to provide students and company employees with a working knowledge of network security threats and how we can configure networks to improve their security. This will be achieved through a hands-on training experience allowing individuals to configure network security systems while being provided with the knowledge regarding the range of threats that can occur. Being a ring-fenced network, students will also have the ability to implement attacks and to look at the effects that well-known attacks can have on a computer network.

In addition to the primary objective the adaptability of the equipment will allow for a range of projects to be developed allowing for individuals to develop their understanding of the use of computer systems in a range of different industries. Data logging systems can be developed to monitor environmental conditions within the workplace. Outreach projects to introduce individuals in the wider business community of Cheshire and Warrington to programming and computer setup.

Geographical area

Equipment stored at UTC Warrington. The Equipment will be mobile and able to be set up and used at different sites through a booking system.

Technologies / Equipment	Skills being Developed
<ul style="list-style-type: none">• Raspberry Pi• Micro Servers• Switches• Monitors• Data Loggers	<ul style="list-style-type: none">• Networking• Network Security• Firewall Administration• Virtualisation• Programming• Data Logging
Contact: Chris Hatherall chatherall@UTCW.co.uk	

Warrington Digital AMET Centres at Warrington & Vale Royal College (Advanced Manufacturing Engineering Training Centres)

The Two AMET centres are situated at each of the college's campuses in Warrington and Winsford housing much needed industry-specific, specialist equipment used to enhance the skills of prospective and current employees in the engineering and manufacturing industries.

The AMET centres will build on the significant strength of advanced manufacturing and engineering across Cheshire and Warrington, enhances Industrial Digital Technologies ('IDTs') to improve processes, productivity and therefore drive the economy

The AMET centres will enhance the skills of prospective and current employees through the acquisition of much needed industry-specific, specialist equipment, primarily for skills training and technical education that meets employers' and sectoral needs. The AMET centres will be accessible to employers, other training providers and schools across the Warrington and Vale Royal areas. The AMET centres will be part of the LEPs VIOT (Virtual Institute of Technology).

The specialist equipment has been agreed following consultation with employers and will enhance existing engineering resources at the college's campuses. This specialist equipment will enable the college to develop into a sub-regional 'centre of excellence' for advanced manufacturing and engineering and a 'hub' that meets employers' and the LEP's stated ambition to raise levels of productivity and innovation to compete at the highest level.

The AMET Centres aligns closely with the UK's Industrial Strategy, Made Smarter Strategy, the ambitions articulated in the SEP to be outward facing, supporting growth, innovation and new thinking through the use of specialist equipment.

The AMET centres align and supports the UK's Industrial Strategy, building on the significant strength of advanced manufacturing and engineering across Cheshire and Warrington, focusing on the potential to increase business productivity and resilience through investment in skills and industries. The centres will assure that the college plays a full and active role in building the Northern Powerhouse.

Geographical area

The equipment will be based in Warrington and Winsford.

Technologies / Equipment	
<p>Warrington Hybrid Manual/ CNC lathes x 3 Colchester Lathes X 2 Alan Bradley/ Siemens PLC Automation Rig x2 5 Welding bays with extraction Robotic Pipe Welder Programmable Siemens robotic simulator Hydraulics and Pneumatics Rig Mechatronics rigs x 3 Mechatronics Software for automation CNC 5 axis x 2 Industrial Control – Process /Power and Drive Automation Plasma Cutter 6 axis Metrology Lab • Roundness measurement (contour and surface)</p>	<p>Winsford Hybrid Manual/ CNC lathes x 4 Plasma cutter 6 Axis x 2 CNC 5 axis Allen Bradley/ Siemens PLC Automation Rig x2 Robotic Pipe Welder Finite Element Analysis (FEA) Siemens Robotic Simulator Hydraulics and Pneumatics Rig Industrial Control – Process automation Metallurgy Lab kit •Tensile Tester • Hardness Tester • Etching Kit • Dry Belt Surface Polisher • Metallurgical Microscopes x 4 • NDT Ultrasonic Tester</p>

<ul style="list-style-type: none"> • Measurement arm probing with robot control • laser tracker with robot control • Surface roughness and form measurement 3D scanner •Tensile Tester •Hardness Tester (Vickers) Desktop Mini CNC 3 D printer Additive Manufacturing Mini robotics kits x 3 	<ul style="list-style-type: none"> • Shear Test robot • Fatigue Tester • Izod Impact Testing Apparatus Conveyor pick & place system – Robotic Automation
<p>Skills being Developed</p>	
<ul style="list-style-type: none"> • Higher level skills (L3-L5/7) in • Mechanical and Operations Engineering • Electrical Electronic Engineering • Construction and the Built Environment 	
<p>Contact: Cath Brierley cbrierley@wvr.ac.uk</p>	

Community Digital Learning Hubs Warrington and Vale Royal College

The project will provide digital equipment for use in the community by adult learners and the workforce of local businesses, situated in 'Community Digital Learning Hubs' at Northwich and Winsford libraries. The college will co-locate some of its adult and community (ACL) provision at the libraries and will augment existing learning opportunities there, primarily focusing upon digital familiarisation and upskilling. The project will be used to offer multiple types of digital training. In addition to digital basic, the college will offer coding and 3D design training. As well as engaging a range of learners with this technology, the college will upskill a range of volunteers, currently engaged in work with the libraries, to add to their skill-set and experience. There is already an existing 'IT buddy' volunteer offer in CW&C libraries and this would allow for expansion of this, further inspiring residents, especially those progressing into employment, to engage with digital learning and upskilling.

It will upskill a wide range of residents who are potential workforce for businesses. The project will be used by adult learners primarily, it will also be available for library staff and volunteers to use with children and young people, expanding the library service's existing coding and digital club offer which has been restricted in the past by lack of access to equipment and trained volunteers. The AMET centres align and supports the UK's Industrial Strategy, building on the significant strength of advanced manufacturing and engineering across Cheshire and Warrington, focusing on the potential to increase business productivity and resilience through investment in skills and industries. The centres will assure that the college plays a full and active role in building the Northern Powerhouse.

Geographical area

Northwich and Winsford libraries. All kit is mobile and can be used across the borough.

Technologies / Equipment	
For Northwich library: iPad x 15 Laptop -x 15 Raspberry Pi starter kit x 10 Portable printer/scanner/copier x1 3D pen x 10 3D printer x 1 Projector x 1 Speakers x 1 Peripherals; ink, filament, paper etc. Protective cases and storage trolley	For Winsford library: iPad x 15 Laptop -x 15 Raspberry Pi starter kit x 10 Portable printer/scanner/copier x1 3D pen x 10 3D printer x 1 Projector x 1 Speakers x 1 Peripherals; ink, filament, paper etc. Protective cases and storage trolley
Skills being Developed	
<ul style="list-style-type: none"> • Basic IT Knowledge • Enhanced IT Knowledge • Programming skills at entry level • Digital graphics at entry level • Digital graphics at level 1 • Basic software development skills 	
Contact: Cath Brierley cbrierley@wvr.ac.uk	

Yocto Digital YouthFed

Our Yocto Digital project operates to achieve the following two main Goals:

- Cyber Skills: Inspire potential talents and bridge the gaps to create a pipeline for cybersecurity.
- Cyber Safety: Make people safe in the digital world.

The programme is aimed at people who are interested in gaining cyber and digital skills or simply wish to know more about cybersecurity - even with no related background or prior knowledge. At the Security Operations Centre (SOC), our operatives run a series of workshops starting with the Cyber Security Taster Session. During these workshops, participants have the chance to do some threat hunting and cybersecurity simulations on 'real-time' cyberattacks. Participants will then engage in a series of exercises designed to get them thinking like cybersecurity professionals.

Geographical area

The centre and the equipment are located at Sci-Tech Daresbury, Keckwick Ln, Daresbury, Warrington WA4 4FS.

Technologies / Equipment	Skills being Developed
<ul style="list-style-type: none"> • Laptop • Monitor • Mouse and Keyboard • TV Display • Network Infrastructure Devices • Server software licenses • Raspberry pi • Whiteboard and other office equipment. • Printer 	<ul style="list-style-type: none"> • Developing a cybersecurity expert mindset. • Hands-on experience in cybersecurity. • Gaining awareness about cybersecurity risk. • Ability to work under pressure. • Ability to Multitask. • Teamwork. • Presentation and communication skills. • Being detail-oriented. • Practicing out of the box and creative thinking. • Ability to synthesize information. • Ability to link technical concepts to the business application environment. • Practicing a balance between technology and the human factor in cybersecurity. • Practicing decision making and dealing with its consequences. • Exploring possible career paths in cybersecurity.
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