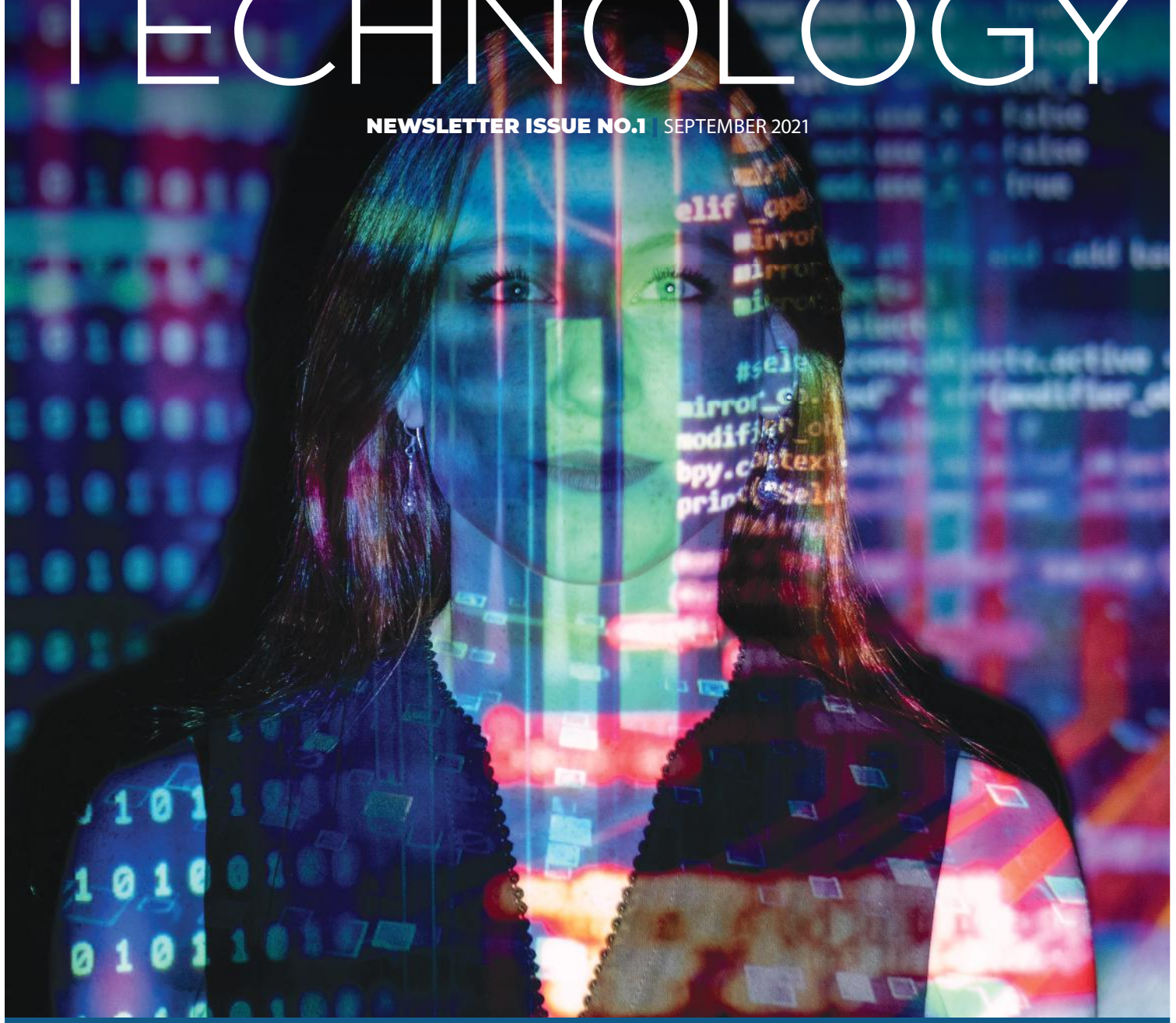


STOKE-ON-TRENT & STAFFORDSHIRE

# INSTITUTE OF TECHNOLOGY

NEWSLETTER ISSUE NO.1 | SEPTEMBER 2021



**NSCG**

NEWCASTLE  
AND STAFFORD  
COLLEGES GROUP



WORKING IN PARTNERSHIP WITH

Keele  
UNIVERSITY



Burton and  
South Derbyshire  
College



Axia  
Solutions

**DELL** HITACHI **ABB** MOOG **SIEMENS**



# WELCOME

## WELCOME TO WHAT I HOPE WILL BE THE FIRST OF MANY NEWSLETTER UPDATES CHARTING THE PROGRESS OF THE STOKE-ON-TRENT AND STAFFORDSHIRE INSTITUTE OF TECHNOLOGY (IOT).

Institutes of Technology are the Government's flagship programme intended to reform the current technical education system; designed to encourage more individuals to consider staying in education after completing T Levels or A Levels; and attract workers of all ages looking to upskill or retrain.

IoT's will bring together employers with further education colleges and universities to create a new type of prestigious institution.

The Government plans to deliver a national network of IoT's throughout England, geographically located to achieve nationwide coverage across all regions. The first wave of 12 IoT's are now starting to open across the country and at the end of last year, the Department for Education invited expressions of interest from educational providers and employers to be involved in the second wave roll out.

In May, we were delighted to learn that a bid led by NSCG, in conjunction with strategic partners Keele University, Burton and South

Derbyshire College, Axia Solutions, Siemens, Moog Aircraft Group, Hitachi ABB and Dell UK, to create the Stoke-on-Trent and Staffordshire Institute of Technology had reached the final stages of the wave two IoT tender process.

If approved, the £15M institution will be the only one of its kind in our Local Enterprise Partnership (LEP) area, and will see industry and academia working collaboratively to widen learner participation in targeted STEM areas, with a clear focus on manufacturing and engineering across a wider range of specialisms, construction and the built environment and digital technologies.

The development will support industry by improving the level of skills and productivity in the region, making a real difference to the economic success of Staffordshire, and beyond.

We are hugely grateful to our strategic partners for their support in collating the wave two IoT bid, and we are looking forward to working closely with them and other key employers across the region as we turn our vision in to reality.

**KAREN DOBSON OBE**  
PRINCIPAL & CHIEF EXECUTIVE

# THE VISION

The Stoke-on-Trent and Staffordshire Institute of Technology will bring together industry, education and research to design and deliver flexible higher-level technical education, giving learners the skills to fully exploit new technologies and digital innovation, increase productivity, drive economic growth and position the region as the 'creators and makers' of the future.

## OUR AIMS:



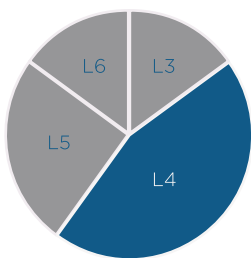
### 2023

TARGET OPENING DATE  
FOR THE **£15M IOT HUB**



**BY 2028** WE WILL  
HAVE DELIVERED  
STEM-LED EDUCATION &  
TRAINING TO OVER  
**3,000 LEARNERS**

ALL LEARNERS  
WILL STUDY AT  
LEAST A **LEVEL 4**  
**QUALIFICATION**

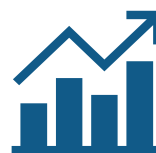


### 90%

**OF LEARNERS**  
WILL BE IN DEFINED  
TECHNICAL DISCIPLINES



**OFSTED OUTSTANDING**  
EDUCATION & TRAINING

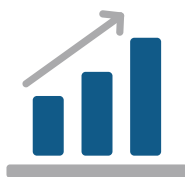


**OUTSTANDING**  
FINANCIAL  
HEALTH



WE AIM TO ENGAGE WITH **OVER 100 EMPLOYERS**  
TO SUPPORT CURRICULUM DEVELOPMENT AND  
WORK PLACEMENT OPPORTUNITIES

**POSITIVE**  
GROSS  
VALUE  
ADDED



SUSTAINABILITY  
**AT THE HEART**  
OF OUR OPERATION



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SIEMENS

## SERVING OUR COMMUNITY

Whilst the location of the IoT headquarters is yet to be announced, our strategy is to develop a 'hub and spoke' model with the central hub located in a position to serve the Stoke-on-Trent and wider Staffordshire region.

It will be a brand new, purpose-built facility, which will be used for delivery by core partners. The IoT will be designed with state of the art teaching spaces and learning resources will be procured using strategic input from employer partners.

The spoke location at Burton and South Derbyshire College will rebrand its existing learning environments and receive new digital and engineering equipment.



## OUR CORE CURRICULUM

ROBOTICS PROCESSING  
DIGITAL PRODUCTION T-LEVELS  
PHARMACEUTICAL **INNOVATION** HEALTHCARE  
ELECTRONICS BUILT ENVIRONMENT MATHEMATICS  
APPRENTICESHIPS SUSTAINABILITY  
ARTIFICIAL INTELLIGENCE **SCIENCE**  
TECHNOLOGY SOFTWARE DEVELOPMENT  
CONSTRUCTION **DIGITAL** DESIGN TECHNICAL  
HIGHER EDUCATION **ENGINEERING**  
BTECs COMPUTER SCIENCE  
HIGHER TECHNICAL QUALIFICATIONS

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TEF Gold

Burton and South Derbyshire College



Axia Solutions

**DELL HITACHI ABB MOOG SIEMENS**

# WHAT DO INSTITUTES OF TECHNOLOGY OFFER TO EMPLOYERS AND THE REGIONAL ECONOMY?

Employers involved in the IoT collaboration will have the opportunity to 'home-grow' their future workforce and upskill their current one, shaping the curriculum to best suit their needs, adopting agile approaches to ensure industry trends are quickly translated into the classroom.

Large and small employers will benefit from having a new type of employer-led institution.



## HOW CAN I GET INVOLVED?

Whilst we have already engaged with a number of strategic employer partners, we believe that strong employer engagement will be crucial to the success of the Stoke-on-Trent and Staffordshire IoT.

If you or your business are interested in being involved at any level including:

- > helping to shape our curriculum offer
- > involvement in research or focus groups
- > guest lecturers and workshops
- > providing work placements

Then we'd love to hear from you.

GET IN TOUCH TODAY.  
**IOT@NSCG.AC.UK**

## SUPPORTER SPOTLIGHT



**PROFESSOR TREVOR McMILLAN**  
VICE CHANCELLOR, KEELE  
UNIVERSITY

"The Stoke-on-Trent and Staffordshire IoT will play an important role in establishing the region as a national hub for manufacturing, engineering and digital expertise.

The project has been a shining example of partnership working, seeing education and industry come together to create a vision for something very special.

We look forward to our ongoing involvement with the IoT and working with our partners to develop curriculum which meets the skills challenges of the future in a positive and forward thinking way."

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