



Department
for Education

Institutes of Technology – Pro-forma

This pro-forma is for those who would like to register an interest in the Institutes of Technology (IoT) initiative. This information is for internal use, to enable the IoT team to understand what type of IoT bids we can expect to receive.

Once completed, please send the pro-forma to the IoT team at the Department for Education by **31 October 2017** at: institute.technology@education.gov.uk

Project information	
Lead institution	West Yorkshire Consortium of Colleges
Working Project title	West Yorkshire Institute of Technology.
Contact for the proposal	
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Partners	
Organisation name: (add rows as required)	
<p>The following partners have been identified and given their support to the IoT proposal to improve & advance curriculum offer at Level 4 & above. This will play a critical & integral role in supporting the digital talent pipeline to access future progression & employment opportunities. Employers will provide highly skilled & relevant governance to the IoT SPV, advising & supporting at all stages of development & implementation.</p> <p>Collaboratively the following partners will harness the collective assets, resources and expertise to deliver the IoT agenda creating a prestigious and distinct identity for both the institutions and learners.</p>	
FE Partners Bradford College	

Calderdale College
 Kirklees College
 Leeds City College
 Leeds College of Building
 Shipley College
 Wakefield College

HE Partners

University of Huddersfield
 University of Bradford
 University of Leeds
 Leeds Trinity University
 Open University

Employer Partners

Digital

- Docman
- Sacrophagus
- Statement
- Sky
- Sun Branding / Sun Digital
- Exa Networks
- AQL

Engineering:

- Advanced Diesel Engineering
- SEW eurodrive
- Reliance Precision Ltd

Financial Technology

- Covea Insurance

Digital Creative Technologies

- Screen Yorkshire

Advanced Manufacturing (Additive Manufacturing) and Supply Chain Management

- Renishaw
- EOS
- 3m Buckley Innovation Centre
- National Physical Laboratory (NPL) national standards in metrology
- Manufacturing Technologies Association
- The Manufacturing Technology Centre
- GrowAM

Digital Technology for Infrastructure Development

- BAM
- Topcon
- NG Bailey

List LEP and Local Authority Areas covered by the proposal

LEP and Local Authority Areas name:

The proposal will deliver high-level technical skills that employers need across the Leeds City Region and has robust support from the listed FE, HE & Employer partners above. The proposal is supported by the Leeds City Region Enterprise Partnership and is being considered for formal approval at the next Employment & Skills panel in December 17.

The IOT will have a central base which is proposed to be located in Bradford; designated as an Opportunity Area as part of the Government's strategy to improve social mobility and help to achieve Government ambitions of seeing *'more disadvantaged young people attending the very best universities, winning places on apprenticeships, entering the top professions, and progressing through the most rewarding careers'*

Working intrinsically with the central IoT will be 7 pivotal centres located within the FE Colleges, utilising designated space to deliver IoT specialisms as prescribed below. The proposed delivery model will ensure coherent alignment of government initiatives to yield maximum impact on areas where social mobility has been lacking.

Project description:

Legal Structure & Model

This is a collaborative proposal, bringing together partners who have demonstrable success in collectively meeting regional skills & employment priorities. It will be led by the Joint Venture established by the seven FE West Yorkshire Colleges to ensure the effective utilisation of the combined strengths of the colleges, building on existing custom, practice & expertise and implementing the recommendations of the Area Review. The Joint Venture has a distinctive identity, which is independent of its partner institutions.

The Joint Venture has also brought together five HE Institutions and 21-city region based employers ensuring strong employer & institutional engagement in governance, leadership, design and delivery. Governance for the IoT will be via a parallel Special Purpose Vehicle (SPV) to the current Joint Venture to provide governance space for employers and HEI's to operate the IoT agenda and ensure financial viability and resilience. The range and size of the partnership provides sufficient scale to be success with demonstrable impact.

Curriculum Offer

The IoT will deliver high quality industry-relevant teaching in new curriculum areas, using industry standard facilities and equipment; and be responsive and agile in meeting the current and future needs of local, regional and national industries. The IoT will specialise in teaching technical disciplines, with a particular focus on STEM to meet industry demand for growth and to increase the supply of technical skills that will drive Leeds City Region productivity.

Curriculum delivered through IoT will be new provision at skill level 4-5 (sub degree level) extending to degree level & above and aligned to the skill needs of the Leeds City Region Skills Plan 2016 – 2020. It will improve the occupational competency of learners to meet the needs of new and existing employers now and in the future with a credible high quality complement to purely academic routes. Collaborating with our HE partner institutions, the new curriculum offer will strengthen routes into HE creating a clear technical education pathway to high skilled, high wage employment.

The IoT offer will provide a step change, the provision of technical education at higher levels, supporting the increased pace of technological change and providing commitment to improving & advancing curriculum offer at Level 4 and above within the Delivery Agreements of Leeds City Region. It will concentrate on digital technologies required by specific industries & employers in the following priority skill areas:

1. Advanced Manufacturing and Supply Chain Management (CAD& Manufacture – 3D solid modelling, modelling and virtual prototyping / Manufacturing automation, systems integration and digital control technology / Process simulation and modelling / Digital manufacturing systems technology)
2. Computer Systems (Networking / Coding / Cyber security/Cloud computing / Internet infrastructure)
3. Digital Health Technology (Health informatics / Medical electronics and instrumentation)
4. Digital Technology for Infrastructure Development (CAD & Analysis / Building Information Management Systems / Transport systems design and planning 'Smart Cities' / Intelligent buildings technology – intelligent building design, facilities management for intelligent buildings / Advanced manufacturing Technology for Building)
5. Financial Technology (Betting and gaming / Automated technology for insurance, banking, trading)
6. Digital Creative Technologies (Computer games design / Interactive journalism tech / Film & TV Production)

Fit with Local & Regional Skills Needs

The IoT will respond to the subject areas relevant to the priority sectors of the City Region particularly in STEM & Digital Skills (Software Coding) and where skill shortages are particularly evidence and which are critically important to the region's economy. The IoT offer will the number of individuals with technical and job specific digital higher level skills with a result of a more highly skilled, digitally proficient & productive pipeline. The IoT will be suitably placed in Leeds City Region as a result of:

- It is already a major hub for data analytics, Financial services, Fintech, Health informatics, betting & gaming & internet connectivity. IXLeeds is the only independent, not-for-profit internet exchange outside of London with a clear opportunity for cyber capability to support growth and employment within the wider region.
- Prevalent skills shortages exist in the digital industry & the gap between the City Region and the national average at Level 4 and above is widening. Digital is also a unifying sector which bridges City Region strengths with broader northern powerhouse digital & infrastructure capabilities.



IoTs LinkedIn Terms
of Reference.docx

Join the Institutes of Technology LinkedIn Group [here](#) or search 'Institutes of Technology – DFE' on the LinkedIn website.