



Department
for Education

Guidance

Institutes of Technology

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About Institutes of Technology

Institutes of Technology (IoTs) are collaborations between further education (FE) providers, universities (HE) and employers, with employers at the heart of decision-making, curriculum development and delivery.

They specialise in delivering higher technical education across England and are part of the government's plans to reform technical training to help employers get the skilled workforce they need and offer local people rewarding and higher paid careers. As IoTs are employer led, they can react quickly to the current and evolving technical skills needs of an area.

IoTs are dedicated to widening opportunities by offering flexible and affordable qualifications to learners of all ages. They offer a wide range of technical courses across sectors such as digital, advanced manufacturing, engineering and construction including:

- higher apprenticeships
- [higher technical qualifications](#)
- degrees
- flexible courses for adults looking to reskill or upskill
- [T Levels](#)

To find out more, watch the [Institutes of Technology explainer film](#) or visit the new [Institutes of Technology website](#).

How they work

Working collaboratively across FE, HE and employer partnerships, IoTs focus on delivering higher level technical skills (mainly at levels 4 and 5) in science, technology, engineering and mathematics (STEM) sectors where employer demand is greatest.

They are designed to:

- significantly increase the number of learners with higher technical qualifications
- provide the skills that employers need, both now and in the future, which are crucial to local, regional and national productivity growth
- attract a diverse range of learners to address the lack of diversity in some parts of the technical workforce, to maximise their social as well as economic impact
- support adult learners, whether in employment or not, who want flexible access to higher-level education

How they were developed

The first wave of 12 IoTs has now been established. These are made up of more than 40 FE providers, around 60 leading employers and 18 universities, and backed by £170 million of government investment to fund industry-standard facilities and equipment. Most of these IoTs are already open to learners.

A second wave of 9 additional IoTs in areas not currently served by the existing network was announced in December 2021. These have the potential to access £120 million capital funding to become operational if they pass each stage of DfE's due diligence process.

For more information about your nearest IoT, go to [Find your local IoT](#).

How they are different

IoTs differ from existing post-16 providers, like colleges and universities, in 4 main ways. They:

- bring together anchor employers with a group of providers from both FE and HE in a collaborative partnership to support the technical skills development of a local area
- embrace new technologies as well as methods of teaching and research, and share their experiences across the IoT and with the wider IoT network
- give students access to all the industry-standard facilities and teaching on offer across the IoT, regardless of their 'home' provider
- attract people of all ages (from 16 years) and backgrounds with the common purpose of boosting the local technical skills base and equipping people for rewarding and valuable technical roles

Partner with an Institute of Technology

If you're an employer located in an area covered by one of the IoTs and working in one of their specialist fields, you may be able to join them. The number of employers an IoT works with is not limited. Contact your local IoT for more information.

Apply to study at an Institute of Technology

Contact your local IoT for information on available courses, the application process and entry requirements.

Find your local Institute of Technology

Institutes of Technology in operation

Institute of Technology	Employer partner	FE partners	University partners	Skills specialis
Black Country and Marches IoT	Avensys UK, Limited, Thomas Dudley Ltd, Fulcro Coins, Dudley Group NHS	Dudley College of Technology, In-comm Training and	University of Wolverhampton, University of Worcester	manufact and engineer medical engineer

	Foundation Trust, Marches Centre for Manufacturing Technology	Business Services		and healthcare modern construction methods and digital technologies as a cross cutting th
East London IoT	ISG, Huawei, Transport for London	Barking and Dagenham College	Coventry University London	construct creative digital, IT sports (gaming)
Greater Birmingham and Solihull IoT	Bosch Thermotechnology Ltd, Salts Healthcare	Solihull College and University Centre, South and City College Birmingham, Birmingham Metropolitan College (BMet)	Aston University, Birmingham City University, University of Birmingham, University College Birmingham	advanced manufacturing engineer
Lincolnshire IoT	Siemens, Bakkavor Ltd, Olympus Automation Limited	Grimsby Institute of Further and Higher Education, DN Colleges Group (North Lindsey College), Lincoln College, Boston College, Grantham College, Bishop Burton (Riseholme College), Lincoln UTC	University of Lincoln	agri-tech, manufacturing energy, c engineer
London City	Siemens, Port of	Newham	Queen Mary	transport

IoT	London Authority, London and Regional Properties	College	University	engineer infrastruc energy, c
North East IoT	Nissan, ESH Group	New College Durham, East Durham College, NA College, Middlesbrough College, Sunderland College, Tyne Coast College	Newcastle University	digital, advanced manufact construct and the b environm and engineer
South Central IoT	Microsoft, KPMG, McAfee, CCL Solutions Group - Evidence Talks	Milton Keynes College, Activate Learning	Cranfield University	digital: cy security, software developm programm and codin data anal cloud networkin games an animatio innovatio digital transform big data visualisat
South West IoT	Babcock, Met Office, Oxygen House, TDK Lambda	Bridgwater and Taunton College, City College Plymouth, Exeter College, Petroc, Truro and Penwith College	University of Exeter, University of Plymouth	digital, engineer manufact
Swindon and Wiltshire IoT	Nationwide, Catalent Pharma Solutions, Excalibur	Swindon College, New College Swindon,	University of Gloucestershire, Oxford Brookes University	engineer manufact science & health, di

	Communications Ltd, Appsbroker, Hartham Park, Recycling Technologies, Render, Create Studios, Torin-Sifan	Cirencester College		and computer science, business manager
West London IoT	Heathrow, Fujitsu, West London Business	HCUC (Harrow College and Uxbridge College)	Brunel University, London	engineer mechanic engineer civil engineer building services engineer construction and the environment computing security, games programming
West of England IoT	Airbus, GE Aviation, GKN Aerospace Services, JISC, National Composites Centre, North Somerset Council, iO Academy, Renishaw, St Monica Trust, Bamboo Technology Group, University Hospitals Bristol and Weston NHS Foundation Trust), Leonardo and Rolls Royce	Weston College, Bath College, Gloucester College, Yeovil College	University of the West of England (UWE Bristol)	health and sciences advanced engineering high value manufacturing digital and technology
Yorkshire and the Humber IoT	ENGIE Fabricom, Skipton Building Society, GB	York College, Scarborough TEC, Askham	University of Hull, University of York St John	agri-tech, engineer manufacturing

Recruitment,
Catch

Bryan College,
Bishop Burton
College,
Craven
College, East
Riding
College, Selby
College

digital,
construct
and the b
environm



Institutes of Technology in development

Institute of Technology lead applicant (LEP area)	Employer partner	FE partners	University partners	Skills speciali
Blackpool and The Fylde College (covering the Lancashire LEP area)	Blackpool Transport Ltd (supported by Daimler Truck Group and Alexander Dennis), East Lancashire Health Trust, Nybble.co.uk Ltd, Leyland Trucks Ltd	Burnley College, Lancaster and Morecambe College, Nelson and Colne College, Preston College, Runshaw College	Edge Hill University, Lancaster University, University of Central Lancashire	digital enginee health ar science: manufac infrastru (built environr energy & transpor
Cheshire College South and West (covering the Cheshire and Warrington LEP area)	Encirc, Warrington and Halton NHS Trust, Case New Holland, Alderley Park	Macclesfield College, Reaseheath College, Warrington and Vale Royal College	University of Chester	agri-tec (precisic agricultu digital, enginee health ar science: infrastru (built environr energy & transpor manufac
Chichester	NatWest	Crawley	University of	construc

College Group (covering the Coast to Capital LEP area)	Group, Wates Group, Roche Diagnostics, Gatwick Airport Ltd, Ricardo, Southern Water, Irwin Mitchell, Pearson, Gatwick Diamond Business and Gatwick Diamond Initiative	College, Brinsbury College, Haywards Heath College, North East Surrey College of Technology (NESCOT), Worthing College	Brighton, University of Sussex	enginee and manufac technolc informat and commur technolc
DN Colleges Group (covering the Sheffield LEP area)	AESSEAL plc, Engie UK, HLM Architects	Barnsley College, DN Colleges Group (Doncaster College)	Sheffield Hallam University, The University of Sheffield, Advanced Manufacturing Research Centre Training Centre (AMRCTC)	construc enginee and manufac digital, healthca science:
Newcastle and Stafford Colleges Group (covering the Stoke on Trent and Staffordshire LEP area)	MOOG, Siemens, DELL, Hitachi ABB, Axia Solutions Ltd	Burton and South Derbyshire College, Newcastle and Stafford Colleges Group	Keele University	construc planning the built environn enginee and manufac technolc informat and commur technolc
Solent University (covering the Solent LEP area)	IBM UK Ltd, AB Ports Southampton, Portsmouth International Port, The Royal Navy,	Brockenhurst College, Eastleigh College, Fareham College, Havant and	University of Portsmouth	enginee and manufac technolc informat and commur

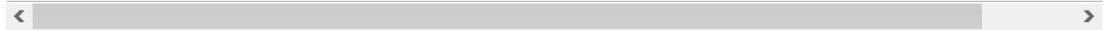
	DP World, Teemil (Isle of Wight SME) formerly Rapanui, QinetiQ	South Downs College, Isle of Wight College		technolc science mathem
South Essex College (covering the South East LEP area)	DP World (London Gateway), Forth Ports (Port of Tilbury), Stansted Airport, Princess Alexandra Hospital Trust, Morgan Sindall Construction, Chartway Group, Megger Instruments, National Grid, Leonardo, Wine GB, Pfizer	Chelmsford College, East Sussex College, Harlow College, Mid Kent College, Plumpton College	Anglia Ruskin University, University of East Anglia	agricultu horticultu and anim care, construc planning the built environn enginee and manufac technolc health, p service : care, informat and commur technolc retail and commer enterpris
University of Derby (covering the D2N2 and Leicestershire LEP areas)	Rolls-Royce plc, Uniper, Alstom, National Grid Electricity System Operator, Bloc Digital, Toyota Motor Manufacturing (UK) Ltd (TMUK), Fujitsu UK&I	Derby College, Loughborough College	Loughborough University	digital, enginee infrastru manufac
University of Salford (covering the	GCHQ, Laing O'Rourke, Siemens,	Ada, the National College for	University of Salford	construc planning the built

Greater
Manchester
LEP area)

TalkTalk

Digital Skills,
Bury College,
Tameside
College,
Wigan and
Leigh College

environn
enginee
and
manufac
technolc
health, p
service :
care,
informat
and
commur
technolc



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