

News story: Prime Minister announces £20 million Institute of Coding

The next generation of digital specialists will be created through the new Institute of Coding, a consortium of more than 60 universities, businesses and industry experts set to receive £20 million to tackle the UK's digital skills gap.

Speaking at the World Economic Forum 2018 in Davos, Prime Minister Theresa May spoke about how the Institute of Coding, a key part of the government's efforts to drive up digital skills through the Industrial Strategy, will equip people of all ages with the skills they need.

The consortium is formed of businesses including IBM, Cisco, BT and Microsoft, small and medium-sized enterprises (SMEs), 25 universities, and professional bodies such as the British Computer Society and CREST.

The 25 universities involved, led by the University of Bath, range from sector leaders in business and computer science (UCL and Newcastle University) to experts in arts and design (University of the Arts) to specialists in widening participation and outreach (Open University and Birkbeck, University of London).

Universities Minister Sam Gyimah said:

A world-class pipeline of digital skills are essential to the UK's ability to shape our future. By working together, universities, employers and industry leaders can help graduates build the right skills, in fields from cybersecurity to artificial intelligence to industrial design.

The Institute of Coding will play a central role in this. Employers will have a tangible input to the curriculum, working hand-in-hand with universities to develop specialist skills in areas where they are needed most. As we have outlined in the Industrial Strategy, this is part of our ambition to embrace technological change and give us a more competitive edge in the future.

The Prime Minister also spoke about the £10 million investment in free and subsidised training courses to help adults retrain and learn new skills.

Launched as part of the Industrial Strategy, the pilot programmes, located in Leeds, Devon and Somerset, Lincolnshire, Stoke-on-Trent and the West Midlands, will test how to reach out and support people with the cost of retraining. The Government has also invested £30million to test the use of artificial intelligence and edtech in online digital skills courses.

The award follows a nationwide competition, run by the Higher Education

Funding Council for England (HEFCE), to improve the way universities train people for digital careers.

The government's £20 million investment will be matched by a further £20 million from industry, including in-kind contributions such as training and equipment.

The Institute of Coding is centred around five core themes:

1. University learners (led by the Open University) – To boost graduate employability through a new industry standard targeted at degree level qualifications. IoC programmes will incorporate learning which solves real-world business problems and develops business, technical and interpersonal skills in equal measure.
2. The digital workforce (led by Aston University) – To develop specialist skills training in areas of strategic importance.
3. Digitalising the professions (led by Coventry University) – To transform professions undergoing digital transformation (e.g. helping learners retrain via new digital training programmes provided through online and face-to-face learning)
4. Widening participation (led by Queen Mary University of London) – To boost equality and diversity in technology-related education and careers (e.g. tailored workshops, bootcamps, innovative learning facilities and other outreach activities). In 2017, female programmers and software developers made up just 3.9 per cent of tech and telco professionals in the UK.
5. Knowledge sharing and sustainability (led by the University of Bath) – To share outcomes and good practice, ensuring long-term sustainability of the IoC. This will include building up an evidence base of research, analysis and intelligence to anticipate future skills gaps.

Dr Rachid Hourizi, Director of the Institute of Coding, said:

The strength of the Institute of Coding lies in the fact that it brings together educators, employers and outreach groups to co-develop digital skills education at undergraduate and masters level for learners in universities, at work and in previously under-supported groups across the country.

In addition, we'll work with our partners to target underrepresented talent through outreach activities, tailored and inclusive curricula, flexible delivery and removal of barriers to working in the industry.

BT, among others, will provide staff and training for the Institute of Coding's undergraduate and masters programmes.

Gavin Patterson, BT Group Chief Executive, said:

Digital skills are crucial to BT's current and future success, but no company can fix the UK's digital skills shortage on its own. By working together across industry and academia, the Institute of Coding will unlock access to a bigger and more diverse workforce, and support skills development for people at different stages of their careers.

We are particularly pleased that industry will have the opportunity to build on its work within the Tech Partnership and our existing degree apprenticeship schemes, setting standards and promoting degrees that are aligned to employer needs.

Professor Madeleine Atkins, Chief Executive of HEFCE, said:

The benefits to students from the Institute of Coding are clear: exciting courses designed to meet the needs of employers; exposure to leading research; and increased work experience to support the development of their employability skills and transition to work.

I am delighted that the Institute also aims to encourage more women into the digital sector.

Kathryn Parsons, Founder of Decoded and Chair of the DfE Advisory Board, said:

I strongly believe the UK can be the best place for technology education in the world. This month London was named the top European city for tech investment and the UK's digital sector is creating jobs twice as fast as the rest of the economy.

We are a nation of entrepreneurs, problem-solvers; of collaborators, and the Institute of Coding marks a further investment in this heritage. It has the power to bring together education and business to ensure we have the skills to drive innovation and be a global leader in the fourth industrial revolution.

Improving digital skills is a central part of the government's new Industrial Strategy, which sets out a long-term vision for how Britain can build on its economic strengths, address its productivity performance, embrace technological change and boost the earning power of people across the UK.

Please see below for the full list of employers and universities involved in

the Institute of Coding.

University partners

Aston University • Birkbeck, University of London • University of Birmingham • Birmingham City University • Cardiff University • Coventry University • University of Exeter • University of Gloucestershire • Lancaster University • University of Manchester • Manchester Metropolitan University • Newcastle University • Northumbria University • Open University • Queen Mary University of London • University of Bath • University of Sheffield • University of Southampton • University of Sunderland • Swansea University • University College London • University of the Arts • University of the West of England • University of Warwick • University of York

Industry partners

British Telecom • Accenture • Cisco • IBM UK Limited • Sky Betting & Gaming • QinetiQ • QA Limited • Tin Smart Social (employer group) • Unipart Manufacturing • Warwick Arts Centre • WANdisco • Waterstons Limited • Youmee • Target Information Systems • West of England combined authority • Sunderland Software City • Office for National Statistics • Orchard Information Systems • Printed.com • Proctor & Gamble • Parametric Technology (UK) Limited • Razor Ltd • Redemption Media • Sheffield Digital • Siemens • The Floop • FutureLearn • gfirstLEP • Gradbase Limited • High Tech Bristol & Bath • Hive IT • HMA Designed Solutions Ltd • Horiba MIRA • In2Science UK • IndigoBlue Consulting Limited • Information Risk Management (IRM) Information • JP Morgan • Kollider • Lightwork Design Ltd • Microsoft Limited • The National Cyber Skills Centre • Nissan Motor Manufacturing UK Limited • O2 • Institute for Advanced Manufacturing and Engineering • Arts Council England • BAE Systems • Bohemia Interactive • British Chambers of Commerce • Business West • Capgemini • CompTIA • Creative Sheffield • CREST (International) • Deloitte • Dynamo North East CIC • Emerald Business Communications • Evoluted New Media • FDM Group

[News story: Civil news: emergency out of hours immigration applications](#)

We have uploaded guidance is in the form of a 'quick guide' called 'Emergency Out of Hours Immigration Application Process'.

This is available on the Client and Cost Management System (CCMS) website. The new process starts on 1 February 2018.

What are the changes?

- a reference number will be provided when an application is granted
- you will then need to upload the application to CCMS quoting this reference number in the merits report

The date the application was granted will be backdated by CCMS to the date the reference number was granted. The case can then be progressed in CCMS.

Why are we making this change?

The previous process relied upon the Corporate Information System (CIS). This change will:

- reduce the number of new applications being processed using CIS
- bring emergency out of hours immigration applications in line with other areas of case processing

Further information

[CCMS website: Provider Quick Guides](#) – see ‘Making an Initial Application’ for new ‘Emergency Out of Hours Immigration Application Process’ quick guide

asylum-out-of-hours@justice.gov.uk – urgent enquiries about the out of hours service

[Press release: £21 million Sheffield flood defence completed](#)

A £21 million flood defence scheme to better protect hundreds of businesses in Sheffield’s Lower Don Valley

A £21 million flood defence scheme to better protect hundreds of businesses in Sheffield’s Lower Don Valley has opened today (Thursday 25 January).

The Lower Don Valley area is second only to the city centre for economic importance to Sheffield. The new flood alleviation scheme will benefit more than 500 businesses and safeguard around five thousand jobs, key roads in and out of the city and homes along a five mile stretch of the River Don.

New ‘hard defences’ have been installed along an 8km stretch of the river to raise flood defence levels comprising new gravity walls, installation of

flood gates and the fitting of more than 300 flap valves to pipes and openings which discharge to the river.

Sir James Bevan, Environment Agency Chief Executive, said:

Flooding has devastating costs for people and businesses – and we know this has been the case for the people of Sheffield. This fantastic scheme will not only benefit homes and businesses in the city but it will also safeguard thousands of jobs due to the increased level of protection it provides.

It's been great to see Sheffield City Council and the Environment Agency working together in partnership to better protect the Lower Don Valley.

It is the first scheme of its kind in the UK to have business owners contributing to the costs of the flood protection through the creation of a formal Business Improvement District – a business led partnership created to bring additional services to local businesses. The Environment Agency and Defra contributed £19.3 million towards the total capital cost (£20.7 million), with local businesses contributing £1.4 million.

Floods Minister Thérèse Coffey said:

This partnership funding model showcases the way industry can work with Government to provide wider benefits to the community with local business investment in this project. The Sheffield Lower Don Valley scheme is protecting jobs, businesses and vital infrastructure which the whole city can be very proud of.

In Yorkshire, the Government is investing £430 million over the next four years to reduce the flood risk to a further 63,000 homes and businesses.

The Chief Executive of the Environment Agency, Sir James Bevan, and the Leader of Sheffield City Council Councillor Julie Dore were among those at the event, also attended by local business owners, to mark the completion of the work.

Councillor Julie Dore said:

I am delighted to see we have fulfilled our promise to strengthen our defences against floods. I would like to express my thanks to all the partners involved in creating flood protection that is fit for purpose.

Our investment in this scheme means we are not only securing the

future of existing businesses and homes but also making land more suitable for new homes and regeneration. This will create more jobs, investment and growth in the city.

Today marks the beginning of our commitment to preventing any future devastation. In the coming months and years we will be doing more work to ensure that we reduce the risk of floods and protect residents, homes and businesses across Sheffield.

The scheme has been shortlisted for an award as the best project over £5 million in the Institute of Civil Engineers Yorkshire and Humber Awards 2018.

Sheffield has suffered severe flooding with the most recent in 2007, 2009 and 2012.

[News story: Search for leader of Centre for Data Ethics and Innovation Launched](#)

Government is investing £9 million in the centre as part of plans to make the UK the best place in the world for businesses developing artificial intelligence (AI) to start, grow and thrive.

It will advise on the measures needed to enable and ensure safe, ethical and innovative uses of data-driven technologies.

The UK already benefits from a world-class regulatory regime and the centre will build on this by making sure we understand and respond to the rapidly evolving ways in which data is impacting our lives.

The centre will make sure we have a governance regime which fully supports both ethical and innovative uses of these technologies. It will deliver its work through extensive engagement with industry, regulators, civil society and the public.

Digital and Culture Secretary Matt Hancock said:

We are determined to be the best place in the world to start and grow a digital business while ensuring safe, ethical and innovative uses of data-driven technologies.

Our Centre for Data Ethics and Innovation will be crucial in helping us achieve this aim by building public confidence, providing certainty for business and helping maximise the

exceptional potential of AI and data.

Today we're launching a call for a chair to lead the interim centre. This is a fantastic opportunity to shape its early work and establish the permanent centre on a firm and credible footing.

It is essential to get the design of the permanent centre right and a public consultation on its exact remit and functions will be launched in due course.

Expression of Interest: Chair of Interim Centre for Data Ethics and Innovation

The interim Chair will have a unique opportunity to shape the early phase of the Centre's work, as well as help to establish the permanent Centre on a firm and credible footing. Read information about the opportunity and [how to apply](#).

[Speech: Rushlight Cleantech Conference](#)

Recent progress – the Clean Growth Strategy and Industrial Strategy

Since I last spoke to you, just starting out at the department in June, a great deal has changed, and we have made real progress towards the goal of an economy built around clean growth.

We launched the [Clean Growth Strategy](#) in October, discussing carbon budgets and the gap that has opened over time, we are now estimating that we are just a couple of percentage points off our 4th and 5th budgets, which end in 10-15 years time. Given the pace of change, and the work in R&D and the help of so many of our innovators, I am confident that those gaps will be closed.

And the following month we published the white paper of our modern [Industrial Strategy](#), which works to link up what we are doing in government, with what we would like to see industry doing, and change the game, to make the conversation between government and industry to drive productivity gains. You will see in there some of the highlights of sector deals and examples of how we will work together going forward. Also included are four big Grand Challenges, things that we know we have to do both to solve our own economic transitional challenges, but also to grow and prosper in a global economy, and one of those challenges is the Grand Challenge of Clean Growth. What is exciting about the past few months is that not only have we put forward 15 policies of how we will get our own carbon budgets, we've put that firmly in front of the way in which we want business and government to work together. And this is probably the first time that clean growth and technology has been

prioritised as a challenge and opportunity right across government. It is important for clean tech and growth to have a voice at the cabinet table because so much we do works right across government.

What has also struck me, taking on this portfolio, is that we have focused on delivering on our low carbon budget targets and being one of the first countries to pass our climate change act but we have been a bit shy to celebrate this.

Since 1990 we have led the G7 group, in cutting emissions in our economy, without sacrificing growth, in fact we have had the fastest growing economy in the G7 over that time. Last year, the PWC report said there were only two countries in the world that were doing enough in terms of decarbonisation to meet the 2 degree global target, and that was China and the United Kingdom so we have been rather shy to celebrate what we have achieved.

There is a triple test for anything that we do in the green tech space. Does it reduce carbon emissions? Can we see a cost effective pathway for deployment so that we are not overburdening consumers? And does it create a competitive advantage that we can effectively invest in and grow in the UK so that we can be part of this global shift to green technology?

By setting out what we've done and setting out our progress and great successes to date, we have created a much stronger environment for business investment. And for investment in different forms of local technologies.

I was also struck by successes in renewable energy in the UK, I think it is a strength that the UK has chosen to have a diverse energy mix. There is a role for nuclear at the right cost going forward, we will continue to investigate the scientific truisms of fracking, does it make sense to frack, does it deliver what we want, can it be done in the right way?

We have also done a lot to bring on the renewables portfolio, buying offshore wind at unimaginably low prices. Building the largest installed offshore wind base in the world and we want to replicate that across the economy, taking the partnership between government and business setting out early stage investment, using tax payer's money, co-investing with the private sector, using auction mechanisms to drive costs down and continuing to commit to those technologies moving forward.

So this momentum needs to translate into long term commitments. That is why we were clear in our Clean Growth Strategy about our big R&D investment, hopefully to show that government is making the largest investment of public funds ever into R&D and £2.5 billion of that will do into clean tech.

Whether it is through the transport sector, through the Faraday Challenge where we want to lead the world in the creation of the next generation of battery technology and use that technology to support what we need in terms of better storage and renewable energy generation.

We must use these opportunities is to create opportunities with other countries to deliver maximum take up of new technologies, and make them low

cost. We want to work with other countries to work together, to drive down costs and create productivity in the UK. Global appetite is huge, in spite of the US pulling out of Paris, all the other countries have worked hard to continue to deliver on the Paris commitments. There is an unstoppable force happening in the world which is a global effort to reduce emissions output and a global effort to collaborate and cooperate in solving some of these low carbon problem solving technologies. We talk a lot to our friends in Norway and removing hydrocarbons from the north sea basin it seems obvious we should work together on carbon capture storage.

UK-Republic of Korea Smart Energy Innovation Partnership

It is my pleasure to have Ambassador Hwang joining me today to announce an agreement of £3 million to support a bilateral innovation programme, with just over £3 million in matched funding from the Republic of Korea. This exciting programme will support development and demonstration projects on innovative smart energy technologies and business models, each one involving companies from both the UK and Republic of Korea. Our countries are natural allies in this – we have similar population sizes spread across similarly-sized countries, and we are at similar stages in our development and deployment of smart systems, including the rollout of smart meters.

Both countries are members of the Mission Innovation Smart Grids Challenge, and actively support innovation in smart energy technologies like storage and demand-side response, accelerating clean energy innovation around the world. As well as learning from one another, we can develop new approaches and, potentially, new technologies together. And we can decarbonise our countries together as a result of this cooperation.

This partnership will have tangible benefits, including reduced costs for designing and implementing smart systems and technologies. For the UK we can expect accelerated adoption of smart, flexible energy systems, which will save money by reducing deployment time, while our understanding of, and access to, Korean markets will increase, presenting great opportunities for UK businesses. We expect similar acceleration in Korea, again leading to savings, while Korean businesses and policy makers can gain experience of the British system, from regulation to incentives.

Developing a new platform

Where government can help we will use all the tools at our disposal to support clean growth and low carbon innovation in our economy, including market design, taxation and regulation, as well as the funding of £2.5 billion we are providing. But as ever it will be industry which leads the way.

After the last event in June, I asked what more we could do to help the companies we have been supporting to get to market and that's why today I am delighted to announce the first stage in the development of a new [GOV.UK portfolio list](#) bringing together all of the companies we have invested in

since 2012. It's a great first step in terms of showcasing what we are doing and how government is investing.

This is part of the commitment, made in our Industrial Strategy, to promote overseas investment into the UK's clean economy, and strengthen our support for UK exporters. It will also be a showcase for our clean tech investments at home and abroad.

The first iteration of the platform will exist in the GOV.UK energy innovation pages and will include a trial version of the database, providing detailed information on the innovation projects and organisations which have benefitted from government funding since April 2012. This will bring greater transparency to the actions of government, but also highlighting the support on offer, and the types of projects which we in government want to encourage. Ceres Power and Anvil Semiconductors are two such companies, and I am pleased to see them here today.

Through this platform, we want to engage with investors interested in UK businesses and the level of R&D support available; with UK businesses looking for partnerships and export opportunities; and with colleagues abroad looking for international opportunities. This is just the first stage, and we are inviting feedback from all users – including you, I hope – on how we can expand and perfect the information we provide in time for launching the final site at our Green Britain Week, an annual event that we will be launching to happen every October, where we will be showcasing progress we have made and challenges we need to focus on. I look forward to that, and to hearing your thoughts.

Ultimately I am here to say thank you, because we can set the mission, the laws that hold our collective parliamentary feet to the fire, when it comes to carbon reduction, we can say the right things in terms of productivity and improvements, but ultimately it comes down to where is the technical excellence, where is the investment, how can we best work together, in solving the challenges that we face and to me it is exciting that clean growth is at the forefront of the government's Industrial Strategy.

The opportunity it gives with the unstoppable momentum that the globe is on towards a low carbon future is absolutely huge and I feel privileged to have a chance to work on this portfolio and to meet so many people who are working together on this journey.