

# digital skills Exeter & Heart of Devon Skills Partnership

@cosmicjulie Julie Hawker • The world is being transformed by a series of profound technological changes – the **second machine age** 



- Digital technology is changing all of our lives, the way we work, our society and our politics
- Over the the next 20 years, 35% of jobs will become automated and most jobs don't yet exist

\*House of Lords Digital Skills Paper 2015

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### Digital impacts on our everyday activities

- Public transport
- Pay for coffee
- Agriculture & farming
- Household goods, shopping
- Keeping fit
- Banking

And in every career we choose



# All jobs will have a digital element

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# Facebook to open new London HQ, create 500 new UK jobs

By AFP

PUBLISHED: 08:55, 21 November 2016 | UPDATED: 08:55, 21 November 2016



Facebook will open a new London headquarters next year and create another 500 jobs, the leading social network said Monday, despite uncertainty over Brexit.

The group said the move will take its UK workforce to 1,500 staff, adding that Britain "remains one of the best places to be a tech company", amid ongoing jitters over the nation's looming exit from the European Union.

The news comes one week after US tech giant Google confirmed it would expand its vast London campus in a move that could bring 3,000 more jobs.

Chief Economist's Weekly Brief -No time to rest

Unemployment may be low and job growth robust, but it's not time to rest. The UK's productivity performance is screaming for more investment. So it's encouraging that more spending on infrastructure and R&D look to be key planks of the government's 'industrial strategy'. We await Wednesday's Autumn Statement for more detail.



There are currently 81,860 businesses across the HotSW (15.8% SMEs) which is 7.5% higher than in 2011 (5,685 growth in businesses since 2011). is significantly below the national business growth rate of 14.1%.

The highest increase in the business stock has been experienced in Plymouth: 9.7% (660 new businesses), and the lowest, yet positive, rate of business growth is seen in Torbay (260, 5.7%).



There were 9,419 JSA claimants (0.9% of the working age population, compared to UK 1.5%) across the Heart of the SW in July 2016. This is an annual decrease of 16.6% on May 2015, compared with a national decrease of 22.5%.

When the LEP is examined by Local Authority, the pace of annual change varies: Plymouth (-11%), Devon (-18%), Somerset (-19%), Torbay (-23%). Devon and Somerset continue to have the lowest JSA claimant rate (0.7%, respectively), followed by Torbay (1.5%) and Plymouth (1.8%). The highest number of claimants in absolute terms is found in Plymouth (3,049) and Devon (3,029 claimants).



- Digital Innovation
- Advanced Engineering
- Microelectronics (underpins both)
- 1. Digital Innovation (Smart Cities, Digital Creativity & Health)
- 2. Digital Innovation (Environment)
- 3. Nuclear Cluster
- 4. Automotive and Hydrogen Corridors
- 5. Aerospace Core
- 6. South Coast Marine Cluster

Digital Innovation Key Strengths					
Home to the largest silicon design cluster	Expertise in smart cities, digital media,				
outside of the USA <sup>2</sup> , and a recognised	autonomous systems, risk, resilience				
powerhouse of electronics and computing	and digital health in which the SWW				
in industry and in academia.	is the national exemplar.				
Pioneering technology expertise in cloud computing; communications; Internet of	Home to the most productive and second largest digital economy cluster in the UK. <sup>3</sup>				
Things; cyber security; sensors; virtual and	World leading expertise in the fields of natural				
augmented reality; robotics / autonomous	hazards, climate change, marine science and				
systems; microelectronics; wireless	broader environmental sciences; combined				
technologies; data analytics; vision; remote	with the data modelling and analytics expertise,				
sensing; satellite applications; high performance	capability and assets required to translate this				
computing; and quantum engineering.	into profitable intelligence.				



### UNDERGRADUATE STUDY

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> Undergraduate study > Subjects 2017 > Computer Science and IT > Digital and Technology Solutions degree apprenticeship

## BSc Digital and Technology Solutions

Typical offer	AAB; BTEC Level Three Extended Diploma DDD; IB 34	
Discipline	Computer Science and IT	
Location	E Streatham (Exeter)	



#### About the apprenticeship

As an apprentice you will be a full salaried member of your organisation, typically earning between £13,000 and £19,000. Much of your learning will take place at work, either through projects linked to academic content or time set aside for distance learning.

Depending upon the vacancy you've applied for, you might be working for a small IT start-up or a multinational corporation. Either way, you're employer will be fully committed to and supportive of your studies.





Low : Skill, Wages, Aspiration, Income

High : Skill, Wage, Aspirations, Income

# MORE DIGITAL APPRENTICESHIP ROLES NEEDED

◎ MARCH 13, 2015 **■** LEAVE A COMMENT



Cosmic harnessing young digital talent

## Opportunities

digital				Q Search
Browse				
				Clear All
Opportunity Title	<u>App Start</u> <u>Date</u>	<u>App End</u> <u>Date</u>	<u>Course Start</u> <u>Date</u>	
Digital Marketing Apprentice	31/10/2016	07/12/2016	04/01/2017	<ul> <li>More</li> <li>Details</li> </ul>
Digital Marketing Apprentice	07/11/2016	28/11/2016	20/02/2017	<ul> <li>More</li> <li>Details</li> </ul>
Digital Marketing Apprenticeship	02/01/2017	28/11/2016	20/02/2017	<ul> <li>More</li> <li>Details</li> </ul>
Social Media & Digital Marketing Apprentice	01/11/2016	07/12/2016	04/01/2017	<ul> <li>More</li> <li>Details</li> </ul>







# **World Population by Generation**

Worldwide and in the U.S., Millennials are the largest generation yet - some 2.3 billion strong. (U.S. Census Bureau)



 "The millennial generation, born between 1980 and 2000 now entering employment in vast numbers, will shape the world of work for years to come.

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Attracting the best of these millennial workers is critical to the future of your business. Their career aspirations, attitudes about work, and knowledge of new technologies will define the culture of the 21st century workplace".



*Millennials at work* Reshaping the workplace

# HOW OLD ARE THE EMPLOYEES AT TOP TECH COMPANIES



# Our four generation workforce provides challenges

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### What Makes Your Generation Unique? By PewResearch Center

Millennials	Gen X	Boomers	Traditionalist
Technology use (24%)	Technology use (12%)	Work ethic (17%)	WW II, Depression (14%)
Music/Pop culture (11%)	Work ethic (11%)	Respectful (14%)	Smarter (13%)
Liberal/Tolerant (7%)	Conservative/ <u>Trad'l</u> (7%)	Values/Morals (8%)	Honest (12%)
Smarter (6%)	Smarter (6%)	"Baby Boomers" (6%)	Values/Morals (10%)
Clothes (5%)	Respectful (5%)	Smarter (5%)	Work ethic (10%)

Note: Based on respondents who said their generation was unique/distinct. Items represent individual, open-ended responses. Top five responses are shown for each age group. Sample sizes for sub-groups are as follows: <u>Millennials</u>, n=527; Gen X, n=173; Boomers, n=283; Traditionalists, n=205.

#### COMMUNICATING

Communicate, interact, collaborate, share and connect with others

# 2016 BASIC DIGITAL SKILLS

#### TRANSACTING

Purchase and sell goods and services, organise finances, register for and use Government digital services

#### PROBLEM SOLVING

Increase independence and confidence by solving problems using digital tools and finding solutions

#### CREATING

Engage with communities and create basic digital content

#### MANAGING INFORMATION

Find, manage and store digital information and content

## More EQ ... Less IQ

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"The workplace and workforce are going to change pretty dramatically as we look forward. The entire concept of work is going to become more flexible. The skills needed in the workforce are going to be less about IQ and a little bit more about EQ, because if you think about it, a lot of IQ knowledge is going to be available at our fingertips through hand-held devices and the computer and technologies that we have at our disposal."

Deborah Henretta, Group President, Asia & Global Specialty Channel Procter & Gamble





New IoT job roles

World Economic Forum – Future Jobs Report 2016

# Top 10 skills

# in 2020

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- 1. Complex Problem Solving
- Critical Thinking
- Creativity
- 4. People Management
- 5. Coordinating with Others
- Emotional Intelligence
- 7. Judgment and Decision Making
- Service Orientation
- 9. Negotiation
- 10. Cognitive Flexibility

# What can UK businesses do to close the technology skills gap?

By James Smith 5 days ago

The digital skills deficit we're experiencing now is only likely to worsen before the situation gets better.

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With £63 billion at risk of being lost from the UK economy each year as a result of the digital skills gap, as British citizens, we can all stand to gain if we make an effort to plug the gap. Currently, the UK has the largest digital economy in the G20 but with growth of 15 per cent expected next year; the digital skills deficit we're experiencing now is only likely to worsen before the situation gets better. But what is the solution and who can deliver it?

Of course the Government has a large part to play in ensuring the UK has the skills to remain competitive in the global digital industry. And we are already seeing promising levels of investment in key digital sectors such as cyber security with the launch of the new National Cyber Security Centre in October and the Government's confirmation of a £1.9 billion cyber security strategy.

## Exeter & Heart of Devon Skills Partnership

Mark Shepherd, Chairman

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"Digital is fundamental to Exeter & Heart of Devon achieving a world-class workforce where every individual matters.

We want to reduce the **Digital Divide** by increasing everyone's digital skills, as 90% of new jobs need them, and 23% of people lack even basic digital skills.

AND we want to improve **Digital Depth** to maximise the assets and opportunities of the University, Exeter Science Park, the Met Office and other businesses and collaborations in our burgeoning IT/Tech sector."



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1. Maximise your digital talent

2. Develop your digital vision

3. Partnerships and collaboration

4. Bring digital to the top

# Keep in Touch

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