techUK FOR WHAT COMES NEXT

Tackling Long-term Shortages in the Data Centre Skills Pipeline

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Agenda

- Introduction and welcome :
- Introducing the opportunity :
- About UTCs
- Discussion
- Next steps

Emma Fryer, Associate Director Data Centres, techUK

- Andrew Stevens, Edge Foundation Trustee | President and CEO, CNet Training
- Mike Halliday, Senior Advisor, Baker Dearing Educational Trust

All

Mike Halliday



Emma Fryer



Andrew Stevens



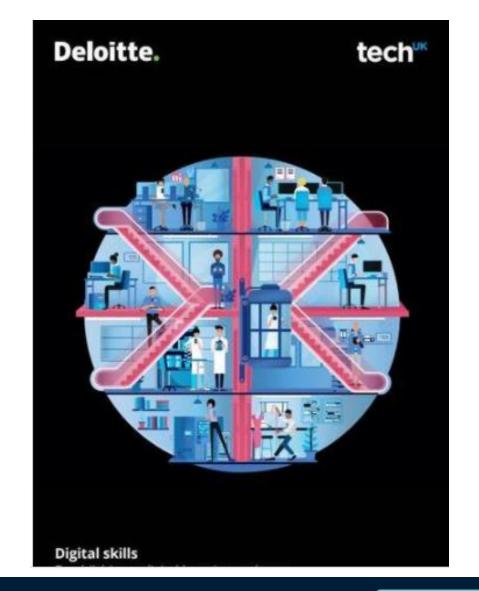
Mike Halliday



techUK has a tech sector wide skills, talent and diversity programme.

We advocate for the digital technology sector on issues like skills migration, shortage occupation list, accessible technology and diversity.

Led by Nimmi Patel: <u>nimmi.patel@techuk.org</u> You can find the <u>programme website here</u>



techUK has recently acquired Tech Partnership Degrees, the not-for-profit organisation which unites employers and universities to improve the flow of talent into the digital workforce at graduate level.

Led by Tom Lovell@techuk.org

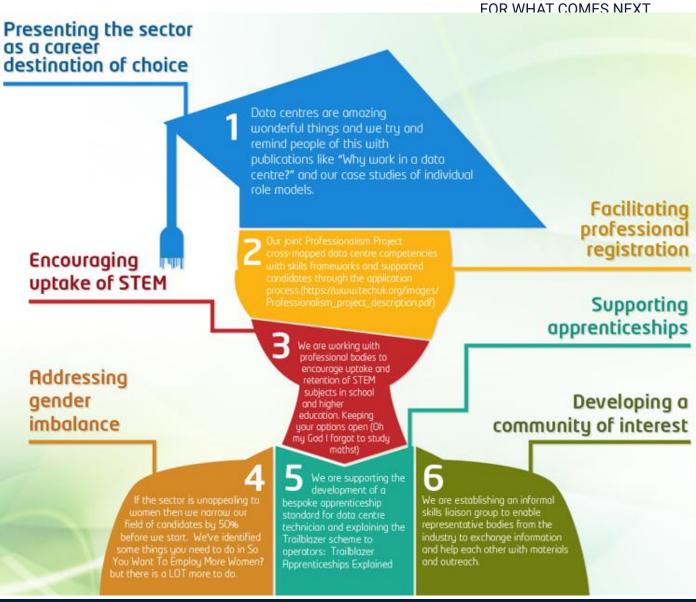
You can find the TPD webpages here: <u>https://www.tpdegrees.com/</u>





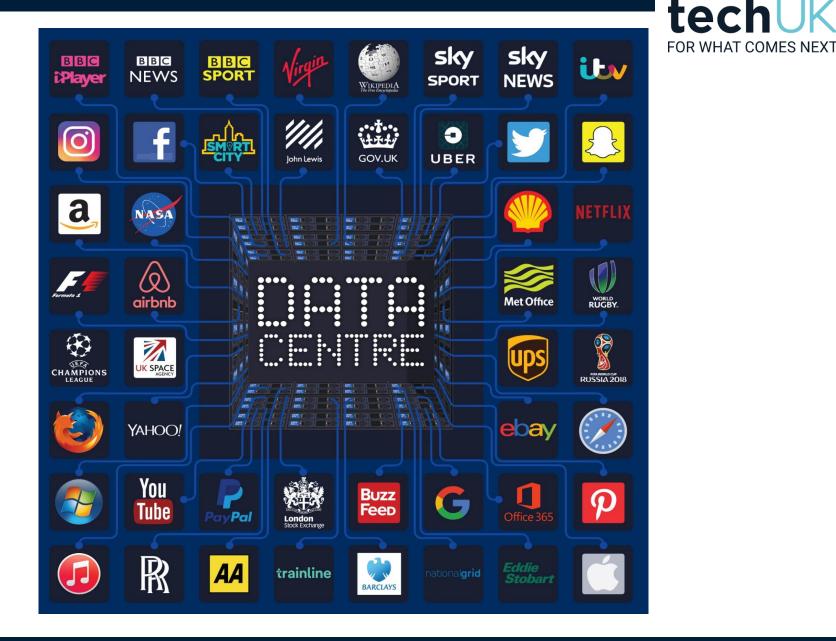
The data centre programme represents UK operators in matters of policy, compliance and reputation. This is led by Emma <u>emma.fryer@techuk.org</u>

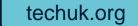
We work with operators to address skills issues specific to the sector in the following ways...



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We position the sector as a career destination of choice







We facilitate career progression

Streamlining and facilitating Professional Registration

Long running project with the IET to ensure that existing skills and professionalism within the sector is recognised, and providing a clearer pathway to professional registration for technical staff.

- Engineering Technician (EngTech)
- Incorporated Engineer (IEng)
- Chartered Engineer (CEng)
- Information and Communication Technology Technician (ICT*Tech*)



- Cross mapped data centre skills, SPEC and SFIA framework
- Raised awareness
- Facilitated applications



We demonstrate that you don't need a computer science degree to WHAT COMES NEXT work in a data centre

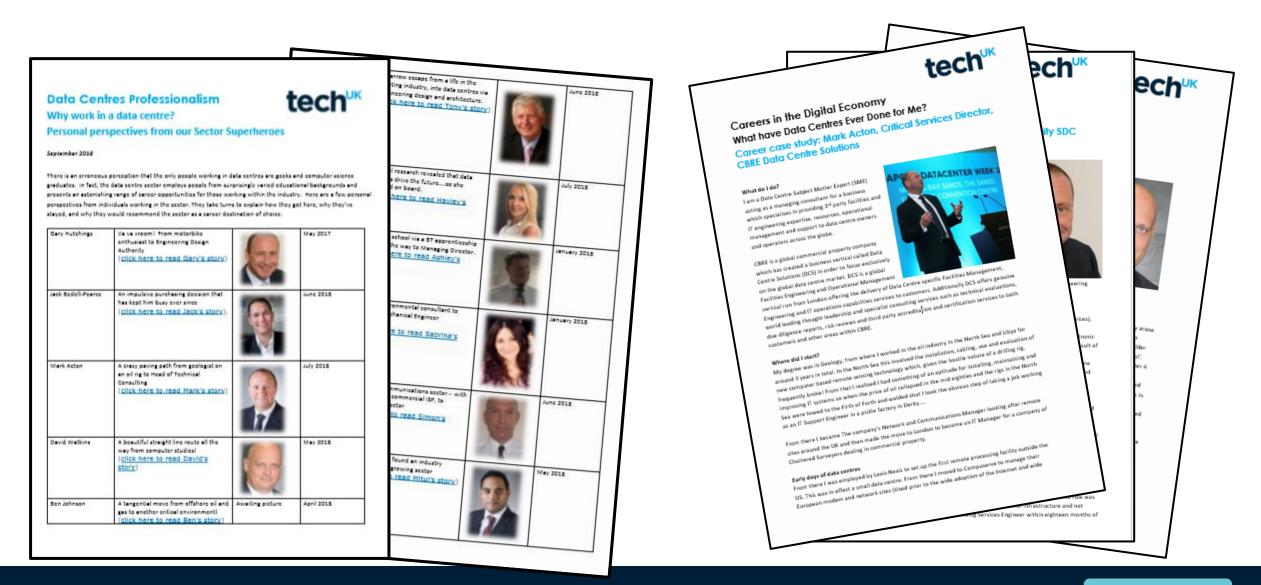
OH MY GOD! I FORGOT TO STUDY MATHS! HOW WILL I EVER GET A JOB IN A DATA CENTRE?



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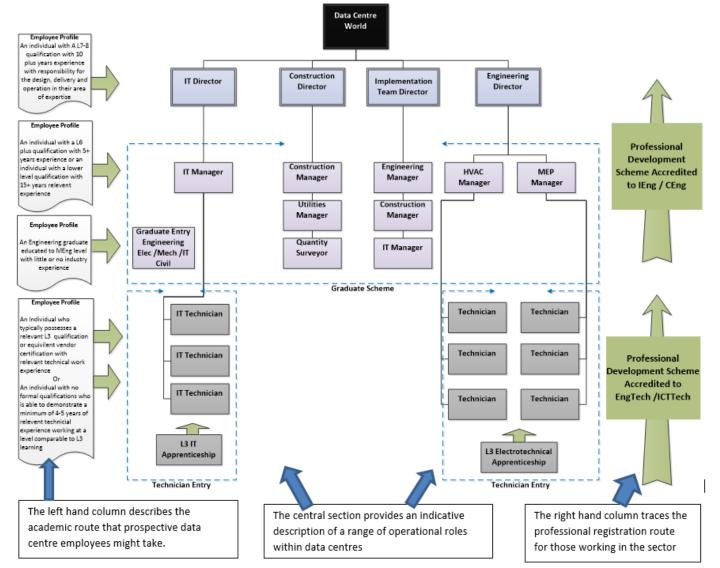
We demonstrate that the sector is a broad church



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We explain access to the sector and career pathways





We promote diversity

and support apprenticeships

tech^w

techUK Professionalism Group Briefing Note

Trailblazer Scheme: Apprenticeship Standards for Data Centres

What is the Trailblazer Apprenticeship Scheme?

The trailblazer apprenticeship scheme was established to reduce duplication and complexity in apprenticeships, improve the quality of training and help match provision to industry requirements. Previously, a multiplicity of apprenticeships of varying quality, provided by a profusion of different bodies, confused candidates and employers without providing guarantees in terms of skills or learning outcomes. A new scheme emerged from the Richards Report, which recommended one standard for one role – Trailblazer Apprenticeships. Under this scheme apprenticeships must now conform to relevant apprenticeship standards that in turn must be approved by the Secretary of State at BEIs. The scheme has effectively replaced all existing apprenticeships. The premise is "earn while you learn". The Trailblazer scheme is funded by an Apprenticeship Levy. The scheme is not restricted to 16-19 year old school leavers: It is open to all ages and multiple levels.

What is the Apprenticeship Levy and who has to pay it?

The Apprenticeship Levy applies to organisations with an annual salary bill of more than E3M. They are obliged to pay 0.05% of anything over E3M (i.e. the first E3m is exempt). The objective of this funding model is to share the training burden and address perverse incentives that discourage companies from investing in training (e.g. the perception that training costs impact competitiveness because companies lose trained staff to others who offer higher salaries because they aren't spending money on training all the time).

How is an apprenticeship standard developed?

An apprenticeship standard must be employer led, and a group of at least ten employer organisations is required to develop it. This group consults organisations with relevant expertise, such as training providers, professional bodies or industry associations. Ideally the employer businesses should be of different size, structure, location, represent different parts of the industry and have different business models. This ensures that no individual company can dominate the content and that the standard they develop is robust. The standard is written on no more than two sides of A4 and provides the blueprint or template for each apprenticeship. An apprenticeship standard will only gain government approval if its content can clearly be differentiated from other standards. Once approved, each standard becomes Crown Copyright and is free to download.

How are the standards used?

If a company wants to take on apprentices, they must find candidates for whom the apprenticeship will provide a genuine learning opportunity. An individual who already possesses the skills is ineligible; this is to prevent the scheme being used to solve commercial training needs or being wasted on "tick box" exercises. Then they need to find a lead provider who will act as coordinator for them and check that the proposed apprentices are eligible. Lead providers must have been vetted by the Skills Funding Agency and could be colleges, other HE institutions or commercial training providers. Lead providers do not need to provide training as their primary role is coordination.

The lead provider acts rather like a bespoke holiday company and puts together the apprenticeship based around the specific requirements of the employer. Apprentices spend 80% of their time working for the

techUK Data Centres Professionalism group So You Want to Employ More Women?

January 2018



The data centre sector struggles to attract and retain female staff, especially in technical roles. In truth, UK data centre operation find it hard to recruit enough technical staff of either gender. Missing out ce half the workforce reduces the number of potential employees by 50%, which is not a good place to start. So what are data centres doing wrong? What can we do about it? Emmis Fryer has worked within the sector since 2011, albeit not in a technical role, and makes the following observations.

Let's be honest, ([1 hud been asked in my inte teens what I would be doing as a coreer, the phrase "data centre" would not have featured on any conceivable list, yet this sector has been a very happy place for me for the last six years. Like many athers, I arrived by accident rather than design. It's true that there are not many women working in the sector and the evidence that I have seen fram professional badles like the ItT and sector surveys by analysts like 451 Group suggest that there are severe problems not just in recruiting women but in retaining them in technical rates. At the end of this note i've included links to some particularly good initiatives to encaurage women into the sector and into technology and engineering rates but in the meanthm / lawe below some thoughts on what we could do to help ourselves.

- Firstly, Motherhood and Apple Pie: make sure you do the things that will attract everyone, because they will attract women.
- Secondly, make sure you position the sector appropriately as a career destination of choice. Data Centres ARE amazing, wonderful things.
- Thirdly, identify where special attention is needed even it if is just inside your own head and get going.

Motherhood and Apple Pie: Do the things that will attract everyone because they will append to women

- Provide flexible working, both in terms of time and location (remote working) where you can. Be
 honest when you can't: don't pay lip service to flexible hours or remote working if you aren't prepared
 to provide, enable and support them.
- Leadership: Ensure your business leaders demonstrate the personal and professional values that you
 want your staff to adopt. Identify role models and value them. Make sure your managers are doing
 the three things managers should do: Inspiring, protecting and supporting.



Our challenge - outreach

- Currently working with:
- BALPA's redundant pilots group to explore tech transition for aviation staff
- IET on professional registration and cyber
- IMechE oil/gas engineering community to explore scope for transition

....But these only help address short term needs. Now we have Tech Partnership Degrees on board we can address longer term needs by ensuring that graduates have the skills they need to work in the tech sector, but we do not have outreach to learners within schools, or are at pre-apprentice stage.

So that's where we think UTCs might come in...