



LEVEL 6 DIGITAL AND TECHNOLOGY SOLUTIONS PROFESSIONAL DEGREE APPRENTICESHIP.

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The accelerated pace of technology-driven change means companies now require specialists with a much broader set of skills – from data analytics to robotics, user experience to cyber security.



Our Digital and Technology Solutions programme is innovative, meeting employer requirements for future skills with our careful alignment of content to a wide range of industry leading technical qualifications.

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Paul Rowlett
Dean of BPP's School of Technology

Stay ahead of the game.

Technology has the power to disrupt a market overnight and change the world. When we consider how significantly businesses have changed over the last decade within industries such as banking, healthcare and travel, day-to-day operations and the way we interact with them have been revolutionised because of advancements in technology.

According to Dell Technologies and the Institute for the Future (IFTF), 85 per cent of the jobs that will exist in 2030 haven't even been invented yet. As technologies continue to evolve, it's certain that current ways of working will change at an even faster rate. Employers need a workforce that can make these advancements, because technology can only be powerful if there are teams of people who are skilled and understand how to use it.

Through partnerships with leading businesses and industry bodies, along with our commissioned market research and client consultations, we monitor the changing skills landscape to address critical digital skills gaps in organisations. And we are constantly innovating to ensure our programmes are in line with evolving capability requirements and learning trends.

Employees with up-to-date skills are essential to building a stronger business and future-proofing your workforce. In the future, the most in-demand technical roles within IT departments will be those with the ability to create new systems, mine data, protect systems and use emerging technology to increase efficiency. Our flagship Level 6 Digital and Technology Solutions Professional Apprenticeship will develop your employees to understand the role and significance of technology across an organisation. They will learn the value of investments in technology and how they can be used to deliver a competitive advantage, including the skills that enable delivery of business projects and how they align with core business needs.

Features.

1. Innovative, having recently been updated after review to meet the requirements of the industry and our global clients
2. Graduates from the programme will be able to operate across a range of digital roles to encourage growth in your organisation through new products, services and productivity by using digital technologies. In the final year, four core specialisms are available; Data Analyst, Software Engineer, Cyber Security and IT Consultant, addressing the four key role demands in the market
3. Streamlined programme to 30 months, allowing less cost and disruption to the business and increased retention of colleagues as they will graduate sooner and earn a higher salary
4. We have integrated our technology apprenticeships across the board, offering greater inclusion and flexibility in pathways that allow employees to accelerate through their professional development, including a progression option for Level 4 apprentices to top-up to a full degree
5. Practical application of skills – to respond to the need of being more integrated into the workplace we have recognised and encourage true work-based learning, supporting learners through the learning journey
6. Delivered live online through our technology-led platforms
7. BPP will support and guide your employees throughout the programme

Level 6 Digital and Technology Solutions Professional Degree Apprenticeship



Duration

30 months

Level 4 Top-up

Apprentices progressing from a Level 4 Apprenticeship can start at stage 2 Diploma level and then achieve on an accelerated pathway of 22 months.



Qualification achieved

BSc (Hons) in Digital and Technology Solutions

Additional Optional Vendor Certifications

- CompTIA ITF certification
- Pre-programme content – CompTIA ITF certification



Entry requirements

Set by individual employers but must include one of the following: 104 UCAS points or Level 3 equivalent. Applicants will be asked to provide evidence of current English and maths qualifications during the application process.



Cost

This programme is funded through your Apprenticeship Levy.

What does this programme offer to your employees?

This programme offers a solid foundation for professionals in software engineering, data science, cyber security and IT consultancy roles.

One of the primary drivers behind this programme was to create a new generation of technology talent who will become confident professionals with the ability to operate across a range of technical roles. This helps to add value and further expertise within your organisation.

This apprenticeship provides great progression opportunities and upon successful completion further study can be taken through the Level 7 MSc Applied Data Analytics.

This programme is beneficial to employees in the following roles: Data Analyst, IT Consultant, Business Analyst, Network Engineer, Software Engineer and Cyber Security Analyst.

What will your employees learn?

The Degree Apprenticeship is available in four core specialisms: Data Analyst, Software Engineer, Cyber Security and IT Consultant. Your employees do not select their specialism until their final year, which provides a solid grounding of technical knowledge, ensuring participants will be more adaptive and responsive to the evolving nature of future job roles within technology.

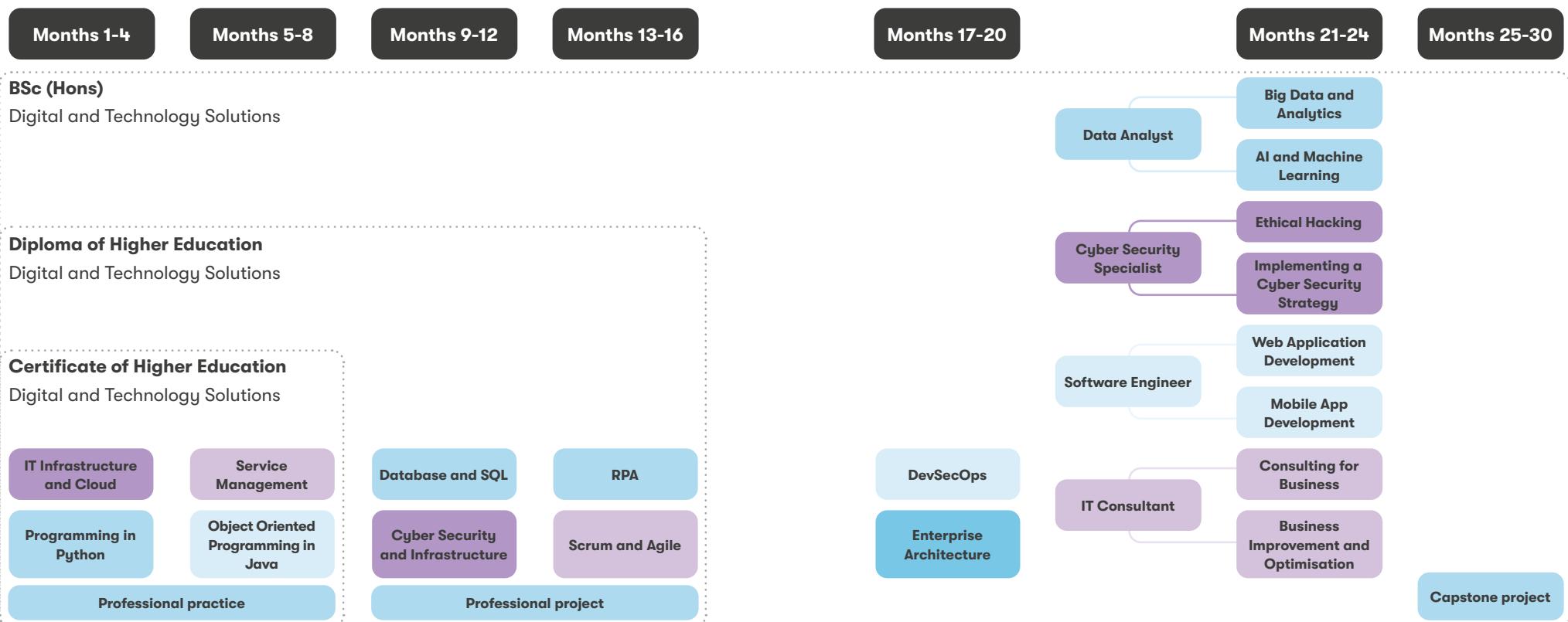
- **Data Analyst:** Data Structures, Algorithms, Data Management, SQL, Big Data Analytics, Hadoop, Machine Learning, RPA, Neural Networks
- **Software Engineer:** Object Oriented Programming in Java, UX, DevOps, Javascript, Mobile App design and development, Android Development Essential Training
- **Cyber Security:** Infrastructure, System architecture, Web, Cloud and mobile technologies, AWS, Azure Fundamentals, Information Security Management Systems, IT Governance, Legislation
- **IT Consultant:** Emerging Technology, Process Optimisation, Continuous improvement, Lean Six Sigma, Business Growth, Influencing, Communication and Presentation skills

How is this programme delivered to your employees?

- All BPP programmes are available online live, providing ultimate flexibility and efficiency for your business
- Pre-programme content – Inclusion of the CompTIA ITF certification which consists of six foundation level modules, designed to prepare apprentices for the programme and can be started ahead of official induction to encourage early engagement
- There are 15 modules with two modules being delivered simultaneously each semester
- Professional Practice Project modules that are run over the course of the full year and are based on naturally occurring work-based projects
- Your employees will attend two x 2-hour online live and interactive lectures each week during 10-week semesters, using our award-winning Adobe Connect classroom
- E-learning content that includes video lectures, digital reading and case studies delivered on the BPP learning platform
- One-to-one meetings with a dedicated Coach each semester and regular group coaching sessions which encourage peer learning
- Learners are required to demonstrate the ongoing application of skills to their job role and build a portfolio of evidence that supports their professional development throughout the duration of the programme

How is the programme structured?

This 30-month programme consists of 15 modules, with the final five months spent completing the Capstone project.



How are employees assessed?

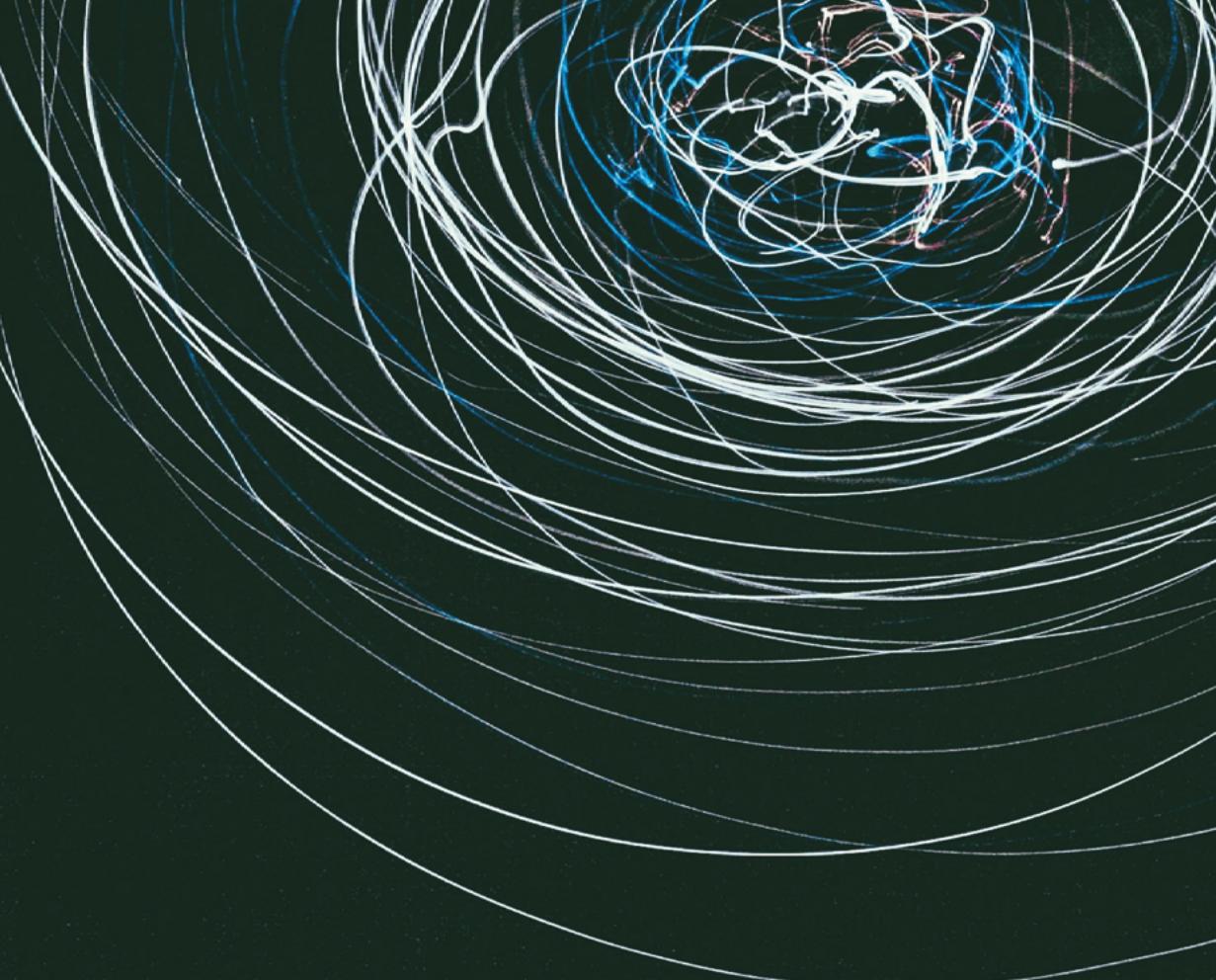
Each programme has a standard set of competencies, known as Knowledge, Skills and Behaviours, that are developed throughout the programme. Learners will also complete a BSc (Hons) in Digital and Technology Solutions.

The Knowledge, Skills and Behaviours are evaluated through an End Point Assessment (EPA), which is completed in the last three months of the apprenticeship. The EPA is conducted by an external assessor and will include the following elements that need to be completed in order to finish the apprenticeship:

- A Project Report submitted after the gateway answering a series of critical and evaluative skills and behaviours questions based on work experience
- A Professional Discussion

Support for your employees.

- We place great emphasis on the importance of coaching and the value it can bring to your employees' experience. Our Coaches are recruited for their specialist skills in the programmes they coach because they have practical industry experience. Employees will attend several coaching interventions, facilitated through regular one-to-one and 12 weekly formal progress review meetings
- Guidance from expert tutors – as with our Coaches, our tutors are highly qualified professionals who have been recruited from industry. This allows them to bring real-life examples and case studies to their lessons which share experiences with your employees
- Additional learning content – to enhance knowledge beyond the apprenticeship curriculum, your employees are provided with access to Pluralsight and LinkedIn Learning. These feature several hours of short video courses, technical assessments and discussion boards which cover a range of niche topics that are highly desired within the sector. New courses and new topics are added daily
- Individual tailored learning – BPP Coaches work with your employees on developing a tailored learning plan to support in any additional growth areas that may benefit your business. This also includes the option to achieve extra vendor certifications

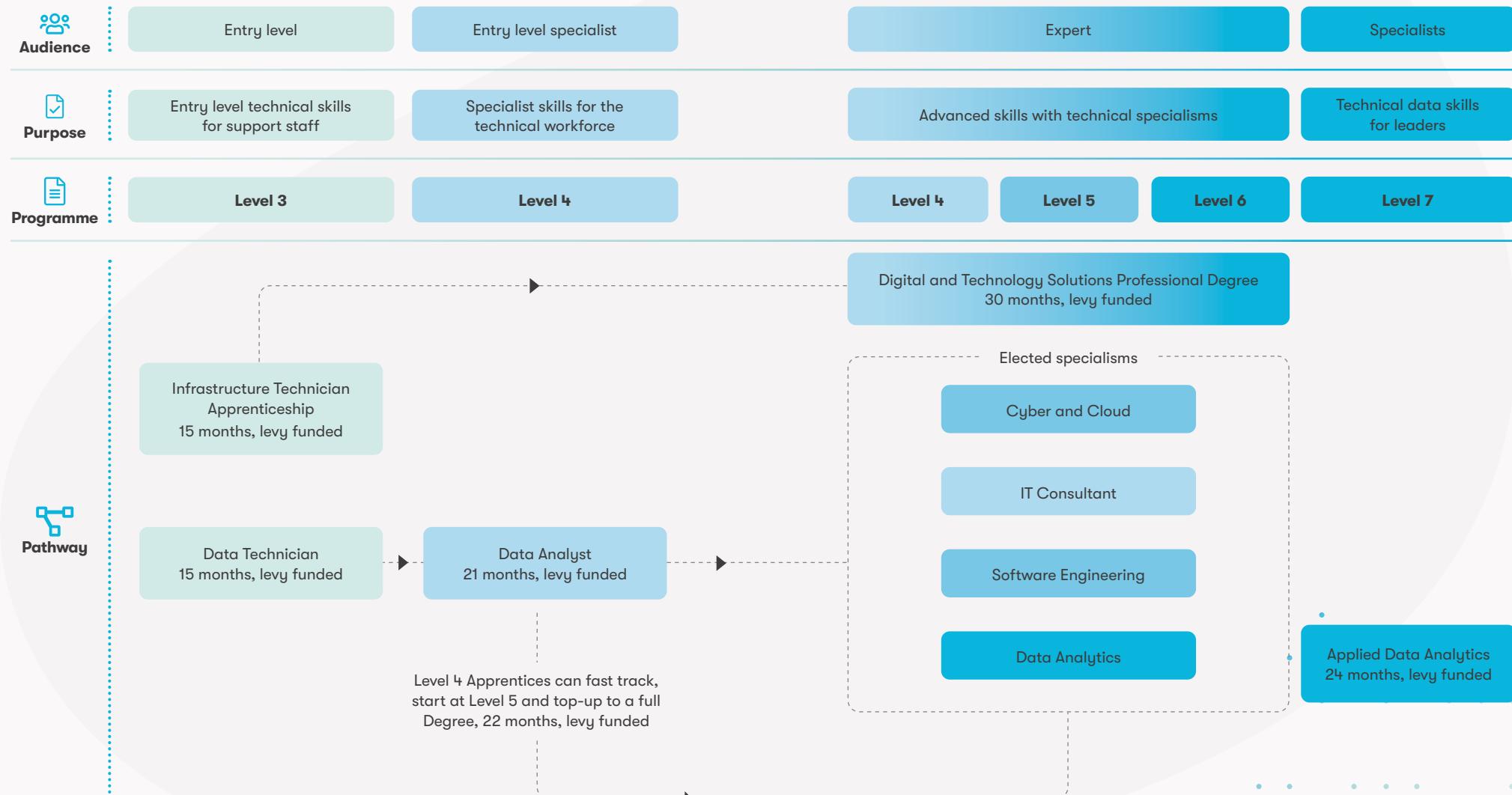


BPP made the effort to ensure we were well supported throughout the pandemic.

Phoebe Norden

Student on the Digital and Technology Solutions Professional Degree Apprenticeship and working at Virgin Money

Progression through the levels.



BPP School of Technology.

The BPP School of Technology was set up with the intention of supporting clients with their 'digital transformation'. BPP has conducted extensive research to identify the key training trends and future skills employers are impacted by, drawing on:

- Commissioned research report sampling over 1,500 responses from professionals working in the UK, Singapore, Hong Kong, and Malaysia
- 160+ research reports and articles collected from industry experts and commentators
- Economic and apprenticeship start data from the UK government
- Machine learning analysis of UK skills in 41 million job ads, conducted by Nesta
- Skills and capabilities data from the UK's apprenticeships standards database

Client feedback, in addition to our research, informed us that employers are struggling with skills gaps as a result of new technology. In addition to:

- Post COVID-19 we anticipate a heavy increase in the use of digital technology and therefore, a stronger demand for digital skills
- A number of the sectors that BPP work most closely with will be significantly affected by technological disruption over the next few years
- A number of our clients have set out within their strategy an intention to increase the use of technology, data and analytics, and a commitment to train and develop their workforce ensuring they are prepared to respond to technological advancements
- Many organisations are unable to capitalise on the data within their business due to a shortage of expert specialists with technical data skills. At the same time, existing employees in every role and every function are exposed to greater volumes of data. Often, they lack the skills to effectively analyse this data and generate insights to inform their decisions

Story of the Digital and Technology Solutions Professional Degree in BPP.

In 2016 BPP University launched the BSc Digital and Technology Solutions as a flagship programme and its official starting point for delivering technology programmes.

This was developed at the request of the Department for Education and No. 10 as part of the Government's strategy to address the Digital Skills gap in the UK. The intention was to revolutionise the way people develop digital skills.

At the time, we worked closely with the Tech Partnership Degrees team who led the trailblazer group to ensure the programme would meet fundamental requirements of the associated apprenticeship and was certified as 'Tech Industry Gold.'

Over 50%
of our Digital and Technology
Solutions graduates were
awarded a first-class
honours degree
or distinction

Creating Careers in Technology.

Our learner successes



Name

Mia Bromige



Programme

Level 6 Digital Technology Solutions



Job Title

Product Design Engineer

Mia's education and background

While completing A-levels, Mia applied for both university and a degree apprenticeship, until choosing to follow the apprenticeship route with Thales. Starting as a software engineer allowed Mia to work on flight simulators for fighter jets and military transport aircraft. After working in different areas of the business, she worked on Thales' drone management brand SOARIZON as a user experience (UX) designer. This involved a focus on user interface design, analysis and research of user behaviour. Mia now works as product design engineer, combining a focus on UX, engineering, and agile principles at SOARIZON.

The biggest influence towards choosing an apprenticeship

With a route towards further education seeming the norm, Mia knew she wanted more than a standard academic platform for her career. With the prospect of a £60,000 debt after a potential university degree, the apprenticeship offered Mia an opportunity to apply the theory to practice, while being sponsored to do it. Support and encouragement from Mia's parents also gave her the confidence to choose the apprenticeship route over a university degree, having also completed work experience with Thales in the previous summer.

How does an apprenticeship prepare your employees for a career?

A direct result of the DTS apprenticeship in this case has increased knowledge of the industry, including elements that are outside of the course. Mia's career has developed into the UX field by being more aware of opportunities linked to software engineering. The apprenticeship also helped her develop a greater understanding of her role within the overall organisational structure at Thales. Additional elements of the programme, such as content relating to project management and agile principles, also provided skills to handle and manage professional tasks.

What can an apprentice achieve?

Mia has helped to successfully launch SOARIZON, a drone mission planning Software as a Service (SaaS) across Europe – a service created by drone pilots, for use by drone pilots. With a passion for UX, Mia can help to enable the role of users as the co-creators for this successful platform. Other achievements include helping to redesign Thales' work experience programme, which included engineering and business development, shaping the path for future work experience talent from school and college. Mia was also given the honour to discuss apprenticeships with MPs at the House of Commons on behalf of Thales.

Advice for employees

While an apprenticeship offers hands-on experience, there is equal importance around the 20% off-the-job training time and using this as much as possible. Your employees should ensure work tasks don't eat into this time. This can be used to help them reflect and consolidate learning from webinars, as well as completing pre-learning for upcoming sessions.

A top tip for other apprentices

"It also helps to ensure you keep your study day just for studying – avoid dipping into emails."

Masterclass events.

As part of the apprenticeship journey, your employees will be given the opportunity to join BPP-hosted events.

These events focus on new and emerging themes by speakers from across the industry. Learners will develop their professional networks and upskill in topical and relevant areas.

Monthly sessions and interviews will cover topics such as:

- Design Thinking
- Customer Experience
- Big Data and Analytics
- Cyber Security and Ethics
- Change and Transformation Management
- Applications Management
- FinTech and Cryptocurrency
- Blockchain and Distributed Ledger Technology
- IoT, Drones and the Digital Twin
- Artificial Intelligence
- Cloud Technology
- Infrastructure and Connectivity

_CodingClub.

Bringing together learners across all programmes to develop their coding skills, work through projects and share their experiences.

- Try a new coding language
- Meet like-minded colleagues across programmes
- Provides opportunity both in class and online to extend
- Tests multiple skills across disciplines
- Practical and can be replicated
- Similar to Hackathons and Coding courses



Frequently asked questions.

Why choose BPP?

We stay ahead of the curve. Our in-house organisational capability knowledge, partnered with technological expertise in the School of Technology, continually assesses the changing skills landscape in technology and its impact on the workplace. This also runs through into the design of our programmes. Our approach to working with businesses can ensure that we find the right solution to plug your technology skills gaps.

What are the benefits to your business?

An understanding of the emerging technologies that can potentially impact your business can help workforce planning. This helps towards future proofing careers and your wider business.

By developing your existing team you increase their individual resilience and advance career opportunities. This helps to build loyalty, create better engagement and turn employees into ambassadors. This ensures you can attract, retain and develop in-demand technical experts, which is key to your future commercial success.

What do employees have to do?

Your employees will attend online sessions for each of their modules and study e-learning content in BPP's online learning environment, The Hub. They will need to complete a work-based activity for each module that requires the application of knowledge in the workplace. This is discussed further with their Coach, along with other development points, during regular one-to-one sessions.

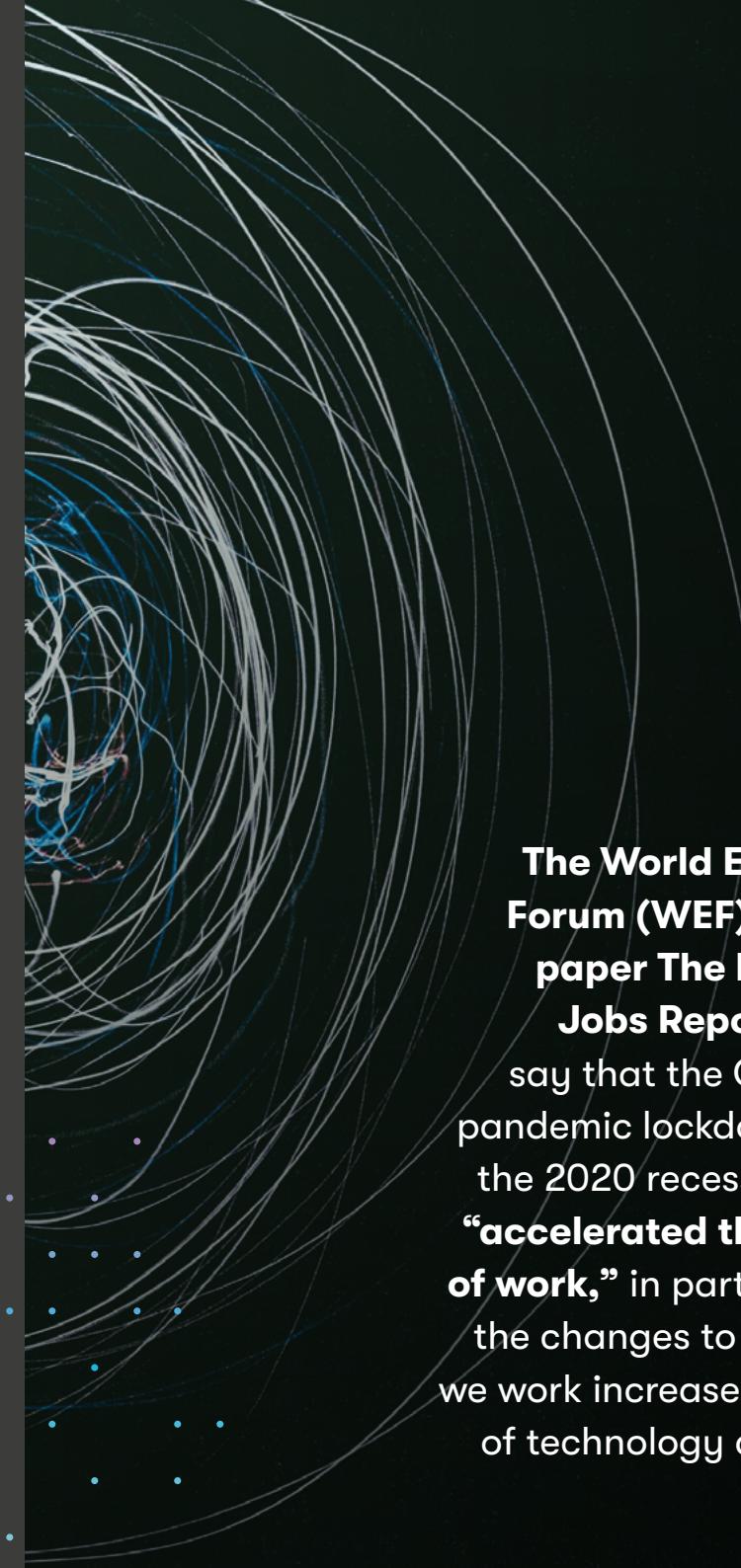
What is the time commitment?

Employees will need to spend between one to three hours preparing for their coaching sessions. They will also need to spend two hours per week attending webinars, reviewing BPP online content and carrying out the assigned tasks for each module.

For more information on our full data and technology offering please visit: bpp.com/courses/data-and-technology

Learn how we support employees, visit bpp.com/business/our-approach

Why should you employ an apprentice?
Discover the benefits for you and
your business, visit: bpp.com/apprenticeships/apprenticeships-for-employers



The World Economic Forum (WEF), in their paper **The Future of Jobs Report 2020**, say that the COVID-19 pandemic lockdowns and the 2020 recession have **“accelerated the future of work,”** in part because the changes to the ways we work increase the pace of technology adoption.

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Looking to the future, it is predicted that there will be an increase in the number of individuals who need awareness and understanding in data, security requirements, software engineering and broader consultancy skills. We ensure all our technology apprentice programmes remain highly relevant to the needs of businesses in the years ahead.

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Paul Rowlett

Dean of BPP's School of Technology

If you have any questions,
or require any more
information visit **bpp.com**,
or call **03300 603 100**.

Disclaimer: This information is accurate as at the date of publication, June 2021. It is subject to change. This document is for guidance only and does not form part of any contract. For more, visit bpp.com.
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