

Transforming How Projects Are Delivered

Project Data Analyst Apprenticeship Level 4

The world is rapidly changing and tremendous data driven advancements are being delivered across a wide range of sectors. But project delivery is late to catch on. Our mission is to change this.

Organisations are turning to advanced analytics to automate processes, improve data quality and extract deeper and predictive insights from project data. However, there is a shortage of people who have the skills to apply data science in a project delivery environment, which will be exacerbated as organisational demands for data insights grows.

Recognising this lack of capacity, we created the Project Data Analyst Apprenticeship. Our highly qualified industry practitioners deliver the data analyst syllabus, but centre training around the real world constraints of projects, underpinned by challenges from parent companies. We encourage applicants from all sectors and all project delivery functions.

Key Facts

- Target duration of 15 months
- Aimed at all age groups. Our first cohort had people aged 18 to 43. All were existing staff
- 20% off the job learning
- **Qualifications:** BCS Level 4
 - Certificate in Data Analysis Tools
 - Diploma in Data Analysis Concepts
- £15,000 **fee** (within the ESFA funding limit)
 - 100% funded for levy payers
 - 95% for SMEs
- Tutor led training via Zoom, pending relaxation of COVID19 restrictions

Projecting Success are recognised experts in project data analytics. We founded a community of >5,000 people, run Project:Hack 3 times a year and are driving the establishment of project data trusts. We only deliver 1 type of apprenticeship and focus on a niche where we excel and provide something unique

We work with employers to develop a new cadre of professional. We nurture pathfinders who help to transform how we deliver projects through automation and leveraging the vast exhaust plume of data that would otherwise get discharged. It's an exciting future with project data analysts at the forefront, shaping it.

What Is Involved?

Off the job training

- **Intensives:** 2 x 1 week intensives
 - **Hackathons:** 4 x 3 day hackathons (1 day prep, 2 day hack)
 - **Hack feedback & troubleshooting:** 2 days
 - **Meetups:** 15 x 1 day training and meetups (inc industry experts)
 - **Self Study & Exercises:** 16 days
 - **Drop in Mentoring:** 1 day
 - **Exam Prep:** 3 days
- Total = **59** days over 15 months.
- **Synoptic Project & Exams:** 6 days (not classified as training)

We meet with employers & learners every 10 weeks to ensure that you are getting the support you need and that the business is getting results. We work with employers to ensure that hackathons and exercises are centred around their own challenges rather than stock data. Solutions have included data pipelines, dashboards, automation, apps and AI solutions.

"The Project Data Analyst Apprenticeship goes far beyond the provision of lifelong, career-enhancing data skills, (which by the way, it does magnificently and in a very practical manner, spiced up by its connection to industry-wide hackathons where we can put the newly acquired abilities to work), Martin Paver and his team of savvy data scientists do a great work in striking the sweet spot that us, project practitioners, need to latch on to this fast moving train"

Pedro Bureo, Senior Program Manager, Baker Hughes, [Apprentice]



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Company Reg No: 08918401

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What will I get out of it?

Employer:

- **Cost savings**, from automation of repetitive processes through to productivity improvements; delivering projects quicker and cheaper, with greater certainty
- The ability to **do more with less**
- **Improved insights**, governance and reporting, leveraging data that would otherwise be discarded
- **Change agents** who are plugged into the latest developments and can identify opportunities, **inspire others** and begin to transform how your organisation delivers projects
- A **range of capabilities** as a direct product of the apprenticeship, ranging from dashboards to AI solutions
- **Reputational benefits** of being at the forefront of an emerging and transformational capability

Employee:

- The knowledge and experience to become **pathfinders** within the new discipline of project data analytics
- **Practical experience** of solving real world data driven challenges and inspiring others
- Development of a **portfolio of data driven solutions** that demonstrate your proficiency and builds out your CV
- **Improved certainty of employment**, upskilling in a discipline where demand will outstrip supply
- **Options**. It will open up an increased range of opportunities where you can make a difference
- Level 4 qualifications equivalent to a **foundation degree**
- A **network** of people who work at the cutting edge and who are happy to provide help when you need it

Although apprentices will be off the job for 20% of their time, many of their exercises and hackathons will be centred around employer challenges; real problems, real data, practical solutions

Job Profile

Project data is messy, it doesn't come out of a control panel. We envisage that there will be an increasing demand for a new cadre of professional. Someone who is able to blend their knowledge of the domain, project delivery and advanced data analytics. We envisage the following broad roles emerging in the coming years:



Translators play a critical role in bridging the technical expertise of data engineers and data scientists with the operational expertise of project delivery. Translators help ensure that the deep insights generated through sophisticated analytics translate into impact at scale



Generalist practitioners will have a broad grasp of advanced analytics and sufficient proficiency to implement immediate level solutions.



Specialist practitioners will have a broad understanding, complemented by niche expertise in one discipline such as Power BI or machine learning.

"Projecting Success have challenged our thinking on how we extract value from data. I continue to be enlightened on what can be achieved, sometimes only in a matter of days when historically it may have taken us years to achieve a lesser result. We regard the team as magicians of their craft, pushing the boundaries of the art of the possible and we look forward to working closely with them in the future. They have a bold and inspirational vision that has the potential to change the future of our sector"

Projecting Success focus on the niche of project data analytics, working with apprentices and their employers to transform how they deliver projects; leveraging data and advanced methods

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Core Entry Requirements *(Mandated by Education and Skills Funding Agency)*



Possess a valid passport/
birth certificate/residence
permit **and** NI number

Must have lived in
the UK and /or EU
prior to start date

Must not be undertaking
another apprenticeship
at the same time

The apprenticeship must offer
substantive new skills & knowledge
in your existing or new role

Prior Qualification Requirements



OR



OR



OR

BTEC

PLUS



2 x A levels
with one in
Maths or ICT

An apprenticeship in a similar
subject, at least the level below
the planned programme

An International
Baccalaureate at
level 3 in ICT

A BTEC Extended
Diploma (180 credits)
in ICT

GCSE English &
Maths (or equiv) at
grade C or above

You may also be considered for entry based on previous relevant experience.
Ultimately employers will assess suitability of staff for training.

Who Is It Aimed At?

Roles: Any project delivery roles that interface with data. The first cohort included project managers, project engineers, PMO professionals, quantity surveyors, BIM, document controllers, H&S managers. Professionals seeking to transform their project delivery role.

Personal Qualities:

- You will be a self starter with a thirst for knowledge, willing to learn new skills, read around the subject to stay plugged into a fast moving topic and experiment
- You will be an enthusiastic team player, with a desire to network and share knowledge

Technical Experience: You will be comfortable with a range of IT systems and software and ideally have some experience of retrieving, collating, manipulating and presenting data for analysis and reporting purposes. Some programming and coding experience would be advantageous.

This apprenticeship will give you the skills to identify business challenges, extract and manipulate data to provides insights into these challenges, begin to develop predictive analytics and optimise project performance.

It is transformational

If you would like to reserve your apprenticeship funding to secure a place please get in touch and we can help.

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Course Outline



Cloud Solutions, Languages, Algorithms & Tools

Unit

Overview

Implementation

Governance & Assurance
Data Security, GDPR, policies & standards
Potential Barriers
Bias, interpreting data, automation

Problem Solving

Use cases, user stories and requirements
Methods, practical solutions

Domain Context: Project Delivery

Data analytics within the context of:

- Project Management & Project Controls
- Waterfall, agile, complexity
- Specific use cases

Data Analytics

Statistical analyses
Data fundamentals, methods and pipelines
Quality, completeness
Data Cleansing, Extract - Transform - Load
Data integration and modelling
Data analysis, time series forecasting
Using industry standard tools & methods

Data Engineering

Data Models & Architecture
SQL & graph databases, linking, queries
Full Stack Development

Data Science

Machine Learning Fundamentals
Applied Machine Learning

Extracting Insights

Storytelling to a senior audience
Performance dashboards and reports

How does it work?

On the job experience: You will work for an organisation under their supervision, gaining hands on experience with real data and helping to solve cutting edge project-related challenges.

Project-based training: With the support of a mentor you will undertake classroom-based and online learning, completing exercises and challenges using an array of data tailored to a project environment.

Community events: You will attend community Hackathons and Meetups to ensure you remain plugged in to the latest thinking from industry experts.

Benefits

- Build critical skills and confidence in data science within project delivery.
- Gain valuable, practical experience with real challenges to enhance your future career prospects.
- Receive support throughout from professionals who are at the cutting edge, and driving industry change.
- Continue to be paid a salary and have your training costs covered for the duration of the apprenticeship.
- Obtain a nationally recognised qualification equivalent to a foundation degree.

For further information or to apply, please contact us.

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Testimonials

"We approached Projecting Success for the apprenticeship because they are leading the way on project data analytics. They have a deep grasp of project delivery, backed up by personal experience leading megaprojects and portfolios. They combine this with a broad understanding of data analytics, AI and data engineering, led by PhD level expertise. Having founded a community of >5,000 people focused on the topic, they are clearly leaders in this field. They have consistently demonstrated their integrity, collaboration and commitment and are great people to work with."

We have already seen a step change in our thinking as a consequence of this relationship. We are now starting to see the operational changes following through, with some apprentices already saving hours in their day by automating how they collect, process and report data; they are only just scratching the surface. It is helping to drive a data culture at grass roots, which will transform how we deliver projects. We have a long queue forming for the next intake."

Gareth Parkes, Head of Data, Sir Robert McAlpine.

"Projecting Success have encouraged us to challenge our current business processes and helped us to realise that there are often more efficient ways of carrying out tasks helping to improve staff morale and reduce costs"

Anne-Marie Cobb, Lead Development Manager. Osborne



Finalist

Mike Nichols Award for Inspiration

"Projecting Success' approach...is both revolutionary and highly disruptive. The world needs more people like Martin and his team to shake things up and make us all think differently"

Project data analytics community member



Finalist

Award for Productivity

Collaborate with a trusted organisation who are working hard to transform how projects are delivered.



Finalist

Award for Social Good