

# Transforming How Projects Are Delivered

## PROJECT DATA ANALYST APPRENTICESHIP LEVEL 4

The world is rapidly changing and 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 Academy. 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]



Funded by  
Education & Skills  
Funding Agency



INSTITUTE FOR  
APPRENTICESHIPS



Apprenticeships  
National Apprenticeship Service



Accredited  
Training Partner

contact@projectingsuccess.co.uk | +44 (0)7775 704044

www.projectingsuccess.co.uk

Company Reg No: 08918401

## HOW WILL YOUR ROLE WILL EVOLVE?

### 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
- 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*

## WHO IS ELIGIBLE?

### 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



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

OR



An International  
Baccalaureate at  
level 3 in ICT

OR

**BTEC**

A BTEC Extended  
Diploma (180 credits)  
in ICT

PLUS



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.

## 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 accredited by the PS

For further information or to apply, please contact us.

contact@projectingsuccess.co.uk | +44 (0)7775 704044

[www.projectingsuccess.co.uk](http://www.projectingsuccess.co.uk)

Company Reg No: 08918401

*"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**



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

**Gold  
Microsoft Partner**

