Level 7 Research Scientist:
Data Science Professional Degree Apprenticeship

Qualification:

Our Research Scientist Degree Apprenticeship is designed to shape the strategic development of data science in your organisation in partnership with the University of Exeter.

The apprenticeship programme is embedded within the first two years of teaching and will lead to a postgraduate diploma in Data Science. The third year of the programme takes apprentices through the End Point Assessment and then focuses solely on the Individual Research Project. Successful completion of the final 60-credit project will lead to the full MSc Data Science (Professional).

The programme encourages apprentices to take business-critical tasks and develop the technical and professional skills to demonstrate leadership and influence decision-making within the relevant function of their organisation. Apprentices do this by implementing the innovative mathematical and computational techniques that they learn on this programme.

Candidates for this programme should have 2–3 years' experience in a role that involves data analysis. You will also be expected to have the opportunity, in the workplace, to:

- Work on a significant work-based Data Science project.
- Organise resources, budgets, tasks and people, and co-ordinate team activities to meet project requirements and quality processes.
- Lead on a process or project that involves a variety of internal and external stakeholders, from different levels within the organisation.
- Coach and/or Mentor colleagues.

Why Exeter?

- A prestigious qualification from a Russell Group university
- The programme is taught by world leading experts in their field
- Blended delivery using a combination of face to face teaching and online learning (apprentices can also attend online only should they prefer)
- Programme specifically designed by an experienced academic team to maintain the balance between workplace priorities and study
- Part of the South West Institute of Technology, partner to the Alan Turing Institute and home to the Institute of Data Science and Artificial Intelligence

Topics covered

3 year programme

- Introduction to Data Science
- Fundamentals of data Science
- Learning from Data
- Data in Business and Society
- An additional technical module (with a choice of specialisms – refer to website for most up-to-date options)
- Professional Practice with application to Data Science
- 2 x work based research projects

Qualifications available

- Years one and two - work towards a PGDip qualification and IfATE Level 7 Research

Scientist Apprenticeship Certificate
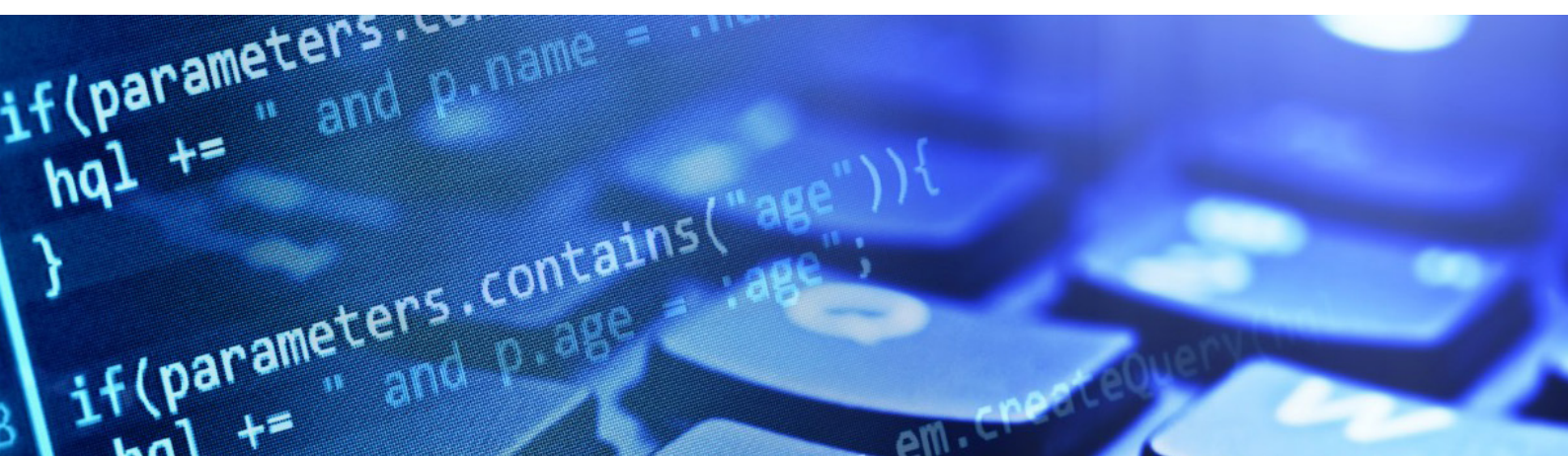
- Year three – MSc Data Science (Professional)

Entry requirements

- A good numerate degree
- Proof of competency in Maths and Python programming (self-assessment worksheet will be provided by the Degree Apprenticeship team)
- Evidence of English and Maths qualifications and grades, at a minimum of Level 2 (GCSE) – certificates are required.

Programme structure

Year One: **Level 7 Research** **Scientist/pgDip**	**Introduction to** **Data Science** **(15 Credits)**	**Fundamentals of** **Data Science** **(15 Credits)**	**Learning from Data** **(15 Credits)**
Professional Practice 1 (15 Credits)			
Year Two: **Level 7 Research** **Scientist/pgDip**	**Data in Business** **and Society** **(15 Credits)**	**Optional Module*** **(15 Credits)**	**Work based Project** **(15 Credits)**
Professional Practice 1 (15 Credits)			
Year Three: **Level 7 Research** **Scientist/pgDip**	**End Point Assessment** **(0 Credits)**	**MSc Data Science Research Project (60 Credits)**	

*Optional modules available may alter. Current option modules include Machine Learning, Statistical Modelling, Social Networks and Test Analysis and MachineVision. Please note, each option module will require a minimum of 10 people for it to run.

University of Exeter
Degree Apprenticeships

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