



Medicines & Healthcare products Regulatory Agency



Role Description

Job Title	Data Scientist (Data Engineer)
Pay Grade	SEO
Location	Our current office locations are Canary Wharf, London or South Mimms, Hertfordshire. We are currently implementing a flexible, hybrid way of working, with a minimum of 4 days per month working on site to enable the collaboration and contact with partners and stakeholders needed to deliver MHRA business. Attendance on site is driven by business needs so depending on the nature of the role, this can flex up to 8 days a month, with the remainder of time worked either remotely or in the office. Some roles will need to be on site more regularly. Remote working is potentially available for some specific roles. Please discuss this with the recruiting manager before accepting an appointment.
Hours	37 hours per week (excluding lunch break)
Reports to	Senior Data Scientist

The Medicines and Healthcare products Regulatory Agency enhance and improve the health of millions of people every day through the effective regulation of medicines and medical devices, underpinned by science and research.

About the Group and Function

The Digital and Technology Group (D&T) lies at the heart of the Agency and is responsible for delivering an optimised IT infrastructure and maximising the secure use of data to enable the rest of the organisation to deliver world class services. Its centre of excellence is also responsible for delivering a broad portfolio of change initiatives, both to transform the Agency's legacy technologies and to deliver innovative new solutions, designed around our customers' needs. D&T works in a holistic way to combine digital and technology change, project deliver, business process, product management and cultural change to maximise out impact and ensure sustainability.

The Technology & Service Operations function is responsible for managing the existing IT infrastructure including both software and hardware, databases and other technology platforms; leading the maintenance of applications directly and through management of outsourced service delivery providers, including the Agency IT and helpdesk; and for the development and QA of and transition to new software and hardware infrastructure.

Role Purpose

This is an exciting role where you will help us to build out our data and analytics capabilities. You will work with stakeholders from across the Agency to incorporate new sources of data into the Agency's data platforms, ensuring that data is handled consistently.

You will help us to build out our data engineering capabilities. You will work in a team of software and data engineers including Power BI developers and data scientists which is responsible for designing and creating dimensional models and stand-alone datasets. The team is also responsible for implementing data pipelines ensuring the availability of up-to-date, cleansed data, supporting the

delivery of our mission to improve outcomes for patients and the public. You will work in this team to carve out your role whether it is in PowerBI, ETL, data science or a combination of these.

Key Responsibilities and Results Areas

- Create data pipelines using various tools, such as Azure Synapse, Data Factory, Data Lake and SQL Server
- Design dimensionally modelled data models for reporting
- Write SQL queries to connect data sources
- Ingest data from a variety of data sources and performing required transformations using Power Query and Data Flows.
- Communicate with business as well as technical teams
- Understand business requirements in BI context and document requirements
- Work as part of the wider data engineering team and using data analysis/ transformation/ 'data wrangling' skills as appropriate.

The job description is not intended to be exhaustive and it is likely that responsibilities and outcomes may be altered from time to time in the light of changing circumstances and after consultation with the postholder.

Person Specification

Important Candidate information:

The Civil Service use a recruitment framework called [Success Profiles](#). Success Profiles are made up of 5 elements: **Ability**, **Behaviours**, **Experience**, **Technical**, **Strengths** but it is unlikely that you will be assessed against all 5.

Behaviours, **Experience** and **Technical** elements will be assessed through your application form, in the first instance.

Success Profile	Criteria	Method of assessment: A-Application, T-Test, I-Interview, P-Presentation
Behaviour	Delivering at Pace - Act promptly to reassess workloads and priorities when there are conflicting demands to maintain performance ensuring results are achieved on time whilst still enabling innovation.	A
Behaviour	Making Effective Decisions - Present strong recommendations in a timely manner outlining the consideration of other options, costs, benefits and risks, inviting challenge and where appropriate involving others in decision making.	A
Behaviour	Seeing the Big Picture - Understand the strategic drivers for your area of work and remain alert to emerging issues and trends which might impact your work area.	I
Experience	Communicating between the technical and the non-technical You should have a track record of communicating	P

	effectively across organisational, technical and political boundaries, understanding the context and using simplified language for audiences.	
Experience	<p>Data Integration Design</p> <p>You should have experience of developing fit for purpose, resilient, scalable and future-proof data services to meet user needs, and be able to demonstrate a strong understanding of how to link data from multiple systems and deliver streaming services.</p>	A, I
Experience	<p>Data Modelling</p> <p>You should have experience of producing data models and applying different tools and understand where to use different types of data models.</p>	I
Experience	<p>Business Analysis</p> <p>You should have a track record of analysing and solving complex problems and concepts and making disciplined decisions based on available information, ensuring the business solution aligns with the business and user needs.</p>	I
Technical	<ul style="list-style-type: none"> • Proficient in Analytics tools (such as Power BI and Python, R, DAX, Power Query, Analysis Services) • Proficient in querying using SQL in different databases including MSSQL Server. • Proficient in ETL concepts and usage • You will hold a degree in Computer Science or equivalent. (Desirable) • Microsoft Certification in Power BI (Desirable) • Proficient in creating data pipelines with Data Factory (Desirable) • Proficient in MS Data/BI stack including Data Lake, Azure Analysis Services and Azure Synapse. (Desirable) 	A, I

The Civil Service Code

These core values support good government and ensure the achievement of the highest possible standards in all that the Civil Service does. You can find out more about our values, standards of behaviour and rights and responsibilities in [The Civil Service Code](#).

Agency Values

The code is reflected in the Agency's values, which state that:

- We focus outwards on patients and public
- We work together with respect
- We take responsibility and are accountable

Civil Service Values

Integrity	<ul style="list-style-type: none">• Putting the obligations of public service above your own personal interests
Honesty	<ul style="list-style-type: none">• Being truthful and open
Objectivity	<ul style="list-style-type: none">• Basing your advice and decisions on rigorous analysis of the evidence
Impartiality	<ul style="list-style-type: none">• Acting solely according to the merits of the case and serving equally well governments of different political persuasions