



# Medicines & Healthcare products Regulatory Agency

## Role Description

<b>Job Title</b>	Senior Data Scientist
<b>Pay Grade</b>	G7
<b>Location</b>	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.
<b>Hours</b>	37 hours per week (excluding lunch break)
<b>Reports to</b>	Head of Engineering, Technology and Service Operations

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.

The Technology & Service Operations function is responsible for managing the existing IT infrastructure including database and other technology platforms including both software and hardware infrastructure, 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 to lead a team of Power BI developers, Data Engineers, Data Scientists and apprentices to develop and deliver data solutions ensuring that the agency is able to make the most effective use of its data and to derive insights from that data. In this role you will be playing a key role in realising the Agency's ambition to be data driven. You will build a specialist capability to extract insights from a wide variety of datasets.

## Key Responsibilities and Results Areas



1. The Senior Data Scientist designs and leads the implementation of data platforms to produce all elements of business intelligence delivery lifecycle, including capturing of requirements, development of Power BI data models, and production of tailored and custom Power BI reports and data dashboards.
2. To champion the use of data to drive analytics and insights within the Agency.
3. To build and maintain an effective team that adheres to company standards and processes, designed to give traceability, accountability and maintain a high level of quality
4. Take the lead in building an analytics framework for the Agency with latest and emerging technologies including Microsoft Data Stack tools such as Data Factory, Data Lake and Azure Synapse.
5. Work with relevant product managers, delivery managers, and delivery partners to ensure a seamless end-to-end delivery of reporting needs.
6. Work as part of the wider data engineering team and use data analysis/ transformation/ 'data wrangling' skills as appropriate.
7. To look for opportunities to re-use existing data and leads the build of data streaming systems
8. To be the translator between business users, senior leadership teams to explain technical concepts to technical and non-technical audiences.

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
<b>Behaviour</b>	<b>Making Effective Decisions</b> – You will have significant experience of presenting strong recommendations in timely manner outlining the considerations of other options and costs, benefits, and risks for data solutions.	A, I
<b>Behaviour</b>	<b>Changing and improving</b> - You will be driving change and a culture of continuous improvement for insights, learning from what has worked as well as what has not. This is about creating and encouraging a culture of innovation in the data and insights.	A, I
<b>Behaviour</b>	<b>Leadership</b> – You will have strong people skills and experience of leading and managing teams of specialists to deliver outcomes. You will also act as	A, I

	part of the leadership team within the Engineering team, and across our division, being visible, approachable and modelling professional expertise	
<b>Experience</b>	<b>Data integration design</b> You should have significant experience of developing fit for purpose, resilient, scalable and future-proof data services to meet user needs. You will be able to demonstrate an understanding of how to expose data from systems (for example, through APIs), link data from multiple systems and deliver streaming services.	I
<b>Experience</b>	<b>Communicating between the technical and the non-technical</b> You should have a track record of communicating effectively across organisational, technical and political boundaries, understanding the context. You should have experience of making complex and technical information and language simple and accessible for non-technical audiences and be able to advocate and communicate what a team does to create trust and authenticity and can respond to challenge.	P
<b>Experience</b>	<b>Data Modelling</b> You will have significant experience of producing data models, based on a detailed understanding of the concepts and principles of data modelling.	I
<b>Experience</b>	<b>Data innovation</b> You will have a track record of identifying areas of innovation in data tools and techniques and successfully implementing them at the appropriate time.	I
<b>Experience</b>	<b>Data development process</b> You will have experience of establishing enterprise-scale data integration procedures across the data development life cycle and ensure that teams adhere to these. You can manage resources to ensure that data services work effectively at an enterprise level for reporting	A
<b>Technical</b>	You will hold a degree in Computer Science or equivalent. (Desirable)	A, I
<b>Technical</b>	Microsoft Certification in Power BI or equivalent (Desirable)	A, I
<b>Technical</b>	Proficient in Analytics tools such as Power BI and Python, R, DAX, Power Query, Analysis Services	A, I
<b>Technical</b>	Proficient in querying using SQL in different databases including MSSQL Server.	A, I
<b>Technical</b>	Proficient in creating data pipelines with Data Factory (Desirable)	A, I

<b>Technical</b>	Proficient in MS Data/BI stack including Data Lake, Data Factory, Azure Analysis Services and Azure Synapse. (Desirable)	A, I
<b>Technical</b>	Proficient in ETL concepts and usage	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

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