

REGULATOR OF SOCIAL HOUSING ROLE PROFILE

Role	Data Engineer	Directorate	Strategy
Reports To	Head of Data Strategy and Architecture	Section	Business Intelligence
Post Reference		Grade	17

Purpose of the Role

The Data Engineer will play a central role in supporting the Regulator of Social Housing's transformational data programme. This role focusses on modernising legacy data systems and enabling scalable, resilient data services that underpin regulatory functions and business intelligence. Looking to build and operate within a DataOps practice, the Data Engineer will design and maintain robust data pipelines, integrate diverse data sources, and support analytical capabilities through well-structured, reusable assets.

A key aspect of the role involves close collaboration with MHCLG and other partners to ensure data solutions are aligned, interoperable, and future ready. The successful candidate will bring a practical, solutions-oriented mindset to complex data challenges, helping to transition legacy infrastructure to modern, cutting-edge standards while enabling data-driven decision-making across the organisation.

Main Duties and Key Accountabilities of the jobholder

Key Accountabilities:

1. Lead the modernisation of legacy data systems to align with current performance, scalability, and security standards.
2. Design and implement robust, scalable data integration and engineering solutions across operational and analytical platforms that supports the Regulator's transformational data programme.
3. Design and implement robust, scalable data integration and engineering solutions across operational and analytical platforms.
4. Embed and champion DataOps principles across the data lifecycle, promoting automation, monitoring, continuous improvement and collaboration in data delivery.
5. Provide technical leadership and mentoring to analytical staff, contributing to the development of shared standards and reusable components.
6. Proactively identify and resolve data-related issues, supporting continuous improvement and operational resilience.
7. Collaborate closely with MHCLG and other external partners to ensure data interoperability, alignment with shared objectives, and effective delivery of joint initiatives.
8. Enable analytical teams by developing and maintaining reusable data assets, including Power BI templates and semantic models, that support consistent and insightful reporting.
9. Provide technical leadership and mentoring within the data engineering community, contributing to the development of shared standards and practices.
10. Identify and resolve complex data challenges, particularly those arising from legacy systems, and proactively drive improvements in data quality, performance, and reliability.

Main Duties and Key Accountabilities of the jobholder

Support the implementation and ongoing management of Master Data Management and Metadata Management practices to ensure consistency, discoverability, and governance of data assets.

Main Duties:

1. Analyse and re-engineer legacy data flows and systems, including reverse-engineering undocumented processes and transitioning manual operations into automated, scalable pipelines.
2. Design, build, and maintain robust ETL/ELT pipelines and streaming data services using modern data engineering tools and practices.
3. Apply DataOps principles to ensure automation, monitoring, and continuous integration and delivery of data products, with a focus on reliability and repeatability.
4. Implement version control, automated testing, and CI/CD pipelines to support collaborative, high-quality data product development.
5. Collaborate with MHCLG and other external partners to align data solutions, share best practices, and support joint data initiatives.
6. Develop and maintain reusable data assets, including Power BI templates and semantic models, to enable consistent, accurate, and timely reporting by analytical teams.
7. Ensure that data structures and pipelines are designed and optimised to support analytical use, including the creation of semantic layers, efficient data models, and performance-tuned reporting solutions that enable fast, reliable insights through tools such as Power BI.
8. Support the implementation and ongoing management of Master Data Management and Metadata Management practices to ensure consistency, discoverability, and governance of data assets.
9. Work closely with internal stakeholders to understand data requirements and deliver solutions that meet regulatory, operational, and analytical needs.

Monitor and optimise data services for performance, reliability, and quality, and implement enhancements based on usage patterns and stakeholder feedback

Working Relationships and Contacts

External relationships:

- MHCLG
- Other government departments and regulatory bodies
- Technology vendors and service providers
- Data sharing partners and external consultants
- Government data engineering communities of practice
- Registered Providers

Internal relationships:

- Data Strategy and Architecture team
- Data Governance and Analytics teams
- IT Operations and Infrastructure teams
- Business Intelligence and Reporting teams
- Programme and Delivery Managers
- Regulation staff

Core Job Skills

Qualifications, Knowledge, Skills and Experience

- Demonstrable expertise in data engineering, gained through professional experience, self-directed learning, or alternative routes such as bootcamps, certifications, or practical project work.
- While formal education (e.g. a degree in Computer Science, Mathematics, Information Systems, or a related field) can be beneficial, it is not essential.
- Candidates must be able to evidence their capability through real-world experience in designing, building, and maintaining data systems and pipelines in complex environments.
- Relevant certifications in cloud platforms (e.g., AWS, Azure, GCP), data engineering, or DevOps are desirable. Azure is highly desirable.
- Proven experience in designing and implementing data pipelines and integration solutions in complex environments
- Strong programming skills in languages such as Python, SQL, or similar
- Familiarity with version control systems (e.g. Git) and collaborative development practices
- Experience with ETL/ELT processes and data streaming technologies
- Understanding of data modelling, metadata management, and semantic layer design
- Ability to work effectively within a DataOps or DevOps framework, including CI/CD and automated testing
- Experience supporting analytical teams through optimised data structures and tools such as Power BI
- Strong problem-solving skills and ability to troubleshoot and resolve data-related issues
- Excellent communication and collaboration skills, with the ability to work across technical and non-technical teams
- Ability to tackle novel and complex legacy data challenges, applying modern engineering approaches to bring systems up to current or cutting-edge standards

General Responsibilities

- To adhere to the RSH's Equality and Diversity and Equal opportunities policies in all activities and to actively promote equality of opportunity.
- To be responsible for your own health and safety and that of your colleagues and all others in the workplace, in accordance with RSH Health and Safety policies.
- To demonstrate RSH values in all working relationships within the workplace
- To work in accordance with RSH Data Protection Policies and adhere to RSH Freedom of Information policies where appropriate.
- To undertake such other duties as may be reasonably expected