



Role Profile

Job Title: Data Engineer	Role Profile Number: SBC_11907
Grade:	Date Prepared: 05/04/2023
Directorate/Group: Enabling Services	Reporting to: Principal Data Engineer
Structure Chart attached:	Yes

Job Purpose

Having confidence in the Council's data and having access to easily accessible, meaningful information for decision making is key to delivering our future Priorities and Pledges.

The post holder will use their knowledge and experience to support the Data, Performance and Insight team, wider organisation and partners. The role is fundamental to developing our data maturity and supporting the Council to become a data enabled organisation.

The role will be responsible for assisting the Principal Data Engineer to build and maintain systems that collect, manage, and convert the Council's raw data into usable information. The role's primary function is to make reliable, well modelled data securely accessible for analysis, so the Council can use this data to provide the intelligence it needs for decision making.

Key Accountabilities

- Building and documenting the Council's data and pipeline infrastructure against the vision and designs agreed in Council's Data Strategy.
- Building data pipelines that cleanse, transform and aggregate data from different sources.
- Maintaining the Council's data infrastructure and platforms, ensuring high-performance, availability, security, resilience and integrity.
- Identifying, designing, and implementing internal improvements to the Council's data infrastructure: e.g. automating manual processes, optimising data delivery, re-designing infrastructure for greater scalability, etc.

- Working with data and business intelligence teams to model and assemble large, complex data sets and data flows that meet business requirements, including for prescriptive and predictive analysis.
- Developing warehousing capabilities to integrate complex data sources from Council and partner systems.
- Identifying opportunities for data acquisition and ingestion to enhance the intelligence available to the Council.
- Making datasets available to analysts, data scientists and data consumers across the Council while maintaining security of the Council's data.

Knowledge & Experience

Candidates must have substantial knowledge and experience in the following areas of business and will be required to provide evidence of this:

- Strong problem-solving abilities.
- Experience in databases, programming, ETL, cloud and analytics tools.
- Proven experience in delivering value through integrating data, including experience of manipulating, processing and extracting value from datasets.
- Ability to produce data models and understand different types of data models.
- Proficiency in integrating and separating data feeds in order to map, produce, transform and test new data products.
- Documenting your work effectively for longevity of the data solutions you're building e.g. source-to-target mappings.
- Ability to design, write, optimise and iterate code from prototype to production-ready. Understanding security, accessibility and version control.
- Using a range of coding tools and languages.
- Planning, designing, managing, executing and reporting tests, using appropriate tools and techniques. Ensuring that risks associated with deployment are adequately understood and documented.
- Ensuring problems are fixed; knowing how to analyse, identify and manage problems and implement appropriate solutions.
- Understanding analytical tools and are aware of and keep up to date with advances in these. Identifying and using the most appropriate analytical techniques.
- Understanding metadata management and the variety of tools. Designing and maintaining appropriate metadata repositories.
- Recognising and exploiting opportunities to ensure efficient and effective performance of the organisation, exploring new ways of conducting data-driven business.
- Communicating effectively across organisational, technical and political boundaries, understanding the context.

Required to represent the Council at key forums, working with Swindon's strategic partners including the NHS and police.

Other Key Features of the role

(working environment / emotional / conditions i.e. regular outside work, unpleasant or hazardous conditions, practical demands such as standing, carrying or working in constrained positions, potential verbal abuse and aggression from people, or risk of injury).

Employee Signature:	Print Name:
Date:	
Line Managers Signature:	Print Name:
Date:	