**Job Profile**

**Senior Data Engineer**

**Level 4, Zone 2**

**It is for use during recruitment, setting objectives as part of the performance management process and other people management purposes. It does not form part of an employee’s contract of employment.**

**Role purpose**

The role of the Senior Data Engineer is to lead on the investigation of corporate data requirements, and apply data analysis, data modelling and quality assurance techniques, to establish, modify or maintain data structures and their associated components.

They will lead on the application of appropriate analytical techniques to create information which supports business decision-making, formatting and communicating results, using textual, numeric, graphical and other visualisation methods appropriate to the target audience.

**Example outcomes or objectives that this role will deliver**

* Investigate corporate data requirements, documenting them according to required standards utilising prescribed methods and tools.
* Understand the implications of the information, both internal and external, that can be mined from business systems and elsewhere. Make decisions based on that information, including the need to make changes to the systems, for example, planning effective management and linking of data sets, information storage, sharing and publishing within the organisation.
* Apply data analysis and data modelling techniques, based on a detailed understanding of corporate information requirements, to establish, modify or maintain data structures and their associated components.
* Provide advice and guidance to database designers and others on using the data structures and associated components.
* Take responsibility for the accessibility, retrievability, and security of specific subsets of data and information.
* Manipulate specific data from a variety of sources, to satisfy local or specific information needs.
* Maintain and implement information handling procedures and protection measures, enabling the availability, integrity and searchability of information.
* Provide advice on the transformation of information from one format / medium to another.
* Discover, interpret and quantify patterns in numerical, textual, and image data. Apply appropriate techniques including statistical analysis, machine learning, Natural Language Processing and Big Data analytics.
* Ensure that appropriate safeguards are applied to handling the data and any analysis results.

**People management responsibilities**

* May from time to time mentor and support a centre of excellence focused on making the best use of data across the Council and with partners more widely.

**Relationships**

* This post reports to the Lead Data Scientist.

**Work environment**

* The post-holder will be required to work in an ‘agile’ way in line with Camden’s move to a paperless and flexible work environment.

**Technical knowledge and experience**

* BSc in relevant discipline, or equivalent industry experience.
* Expert in understanding and applying tools and techniques which can be used to analyse data.
* Expert in understanding large and complex data sets, including those where traditional data processing applications are inadequate. Challenges include analysis, capture, curation, search, sharing, storage, transfer, visualisation, and information privacy.
* Proficient in understanding and applying tools and techniques (manual or automated) which can be used to document an understanding of the structure, relationships and use of information within an organisation. Examples: information usage model, entity model, class diagram, relational data model, data flow model.
* Proficient in understanding and using software which enables the user to create, populate and manipulate data structures.
* Proficient in understanding corporate, industry and professional standards, policies, regulations, compliance and codes of conduct associated with the role.
* Proficient in understanding the activities, structure, and position in the organisation of the functions or departments for which services are provided.
* Familiar with Data Protection Act and EU General Data Protection Regulation and application of relevant elements.

**Camden Way Five Ways of Working**

In order to continue delivering for the people of Camden in the face of ever-increasing financial pressure, we need to transform the way we do things. We call this the Camden Way. The Camden Way is a key part of our transformation strategy often referred to as the transformation triangle which links the Camden Plan, the Camden Way and the Financial Strategy together.

The Camden Way illustrates the approach that should underpin everything we do through five ways of working:

* Deliver for the people of Camden
* Work as one team
* Take pride in getting it right
* Find better ways
* Take personal responsibility

For further information on the Camden Way please visit: <https://camdengov.referrals.selectminds.com/togetherwearecamden/info/page1>