

Senior Data Engineer

Department:	Chief Operating Office
Division:	Modernisation and Digital
Reports to:	Corporate Data and Information Manager
JE Reference:	COO249
Grade:	11 (10-11 Link)

Job purpose

The Senior Data Engineer will be required to identify complex business problems whilst leveraging data value. They will be responsible for conducting full lifecycle analysis from requirements gathering, to activities, to design, including advanced analytics methods.

Job specific outcomes

- Lead on the strategic use of information to enable government-wide objectives to be met, including outcomes, data integrity, planning, software developments, projects, forecasting, investigations, assessments and risk management.
- Oversee the collection, management, cleaning, abstraction and aggregation of data as well as manipulating and linking data sets alongside a range of analytical studies on that data to ensure that the government has a better understanding of their data.
- Engaging with departmental business leads to understand business requirements and developing data solutions to meet the needs of the business.
- Oversee how the data team collaborate, support, report, review, advise and produce data outputs with the departmental leads to drive more informed decision making across the government.
- Liaise with leaders and research experts to ensure aims are clear, progress is communicated and documents are of professional standard where required.
- Lead the provision of advice, guidance, assessment and co-ordination of the governed impactful use of advanced analytics, machine learning and associated data technologies to ensure staff are adequately trained on the latest methods to offer a high quality service.
- Accountable for managing existing complex, multi departmental data flows and informing changes harnessing software capabilities to provide the right information at the right time across the government.

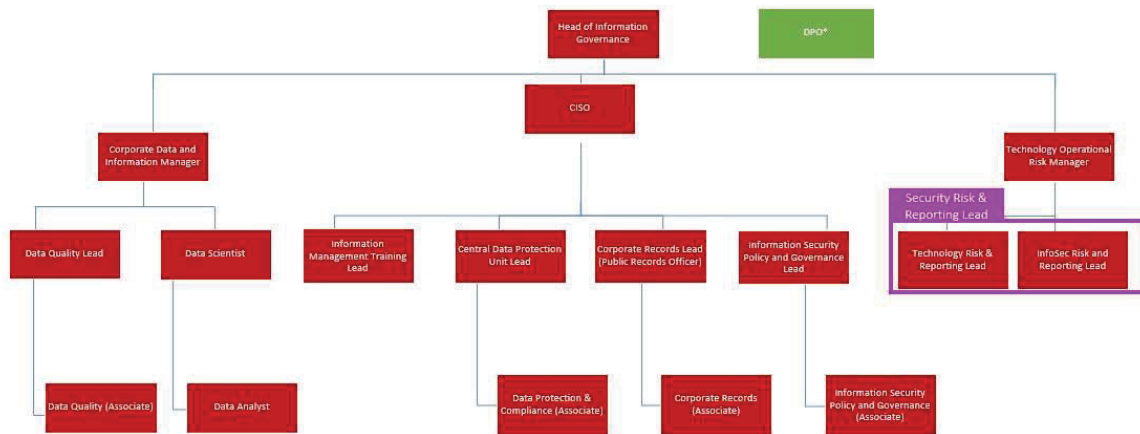
- Work across government, including with Business Intelligence teams, in defining data source reporting requirements, using specialist knowledge to help influence the improvement of data quality within reporting outputs and the data warehouse.

Statutory responsibilities

Active engagement, participation, and compliance with other statutory responsibilities applicable to the role, as amended from time to time.

This role is politically restricted. The job holder is not permitted to undertake political activity involving standing for election to the Government or as a Parish Constable, or publicly support someone who is standing for election or playing a public part in any political manner.

Organisation chart



NB:
 Data Scientist role renamed – Senior Data Engineer
 Data Analyst role renames – Data Engineer

Person Specification

Specific to the role

ATTRIBUTES	ESSENTIAL	DESIRABLE
<p>Qualifications <i>Please state the level of education and professional qualifications and / or specific occupational training required.</i></p>	<p>Educated to a degree in a mathematical, statistical, data science or other analytical discipline or demonstratable equivalent experience. Evidence of continuing professional development</p>	<p>Professional qualifications in data science, statistics, information systems, or information governance preferable</p>
<p>Knowledge <i>This relates to the level and breadth of practical knowledge required to do the job (e.g. the understanding of a defined system, practice, method or procedure).</i></p>	<p>In depth specialist knowledge of the data science and management discipline, with knowledge of system and business process development Knowledge of developing machine learning models using languages/tools e.g. Python, R, Alteryx Familiar with commonly used information systems architecture, database and infrastructure models and a working knowledge of tools for example Power BI, SQL, , Tableau, etc. Practical knowledge of current Data Protection (Jersey) Law and up to date cyber security standards</p>	
<p>Technical / Work-based Skills <i>This relates to the skills specific to the job, e.g. language fluency, vehicle license etc.</i></p>	<p>Data management, data analysis and development and implementation of business systems Data governance and quality assurance Strong research and policy development experience Designs, codes, tests, corrects and documents moderate to complex programmes and scripts from agreed specifications and subsequent</p>	

	<p>iterations, using agreed standards and tools. Collaborates with others to review specifications where appropriate</p>	
<p>General Skills/Attributes <i>This relates to more general characteristics required to do the job effectively, e.g. effective written communication skills, ability to delegate, motivation or commitment etc.</i></p>	<p>The ability to manage and mentor staff including prioritisation, resource management, and personal development Proven ability to be able to communicate effectively verbally and in writing to all levels of stakeholders Able to manage stakeholders both internal and third party Must be in possession of security clearance or be able to obtain clearance within the first 3 months of employment</p>	
<p>Experience <i>This is the proven record of experience and achievement in a field, profession or specialism. This could include a minimum period of experience in a defined area of work if required by an external body (for example a period of post-qualification experience).</i></p>	<p><i>Experience working on similar projects as an SME</i> <i>Experience of business plan development, including systems roadmap and resource planning</i> <i>Experience of managing changing workloads</i> <i>Experience of a wide range of data science practices, or may have deep expertise on a narrower range of specialisms.</i> <i>Has significant experience building data pipelines at scale using a range of tools and technologies and can advise on data engineering best practices across industry.</i></p>	
<p>Criteria relating to Safeguarding <i>Other requirements needed to confirm suitability to work with vulnerable</i></p>		

<i>people e.g. attitudes, skills, experience etc.</i>		
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