



## Job Description and Person Specification

### Job details job title

Job title: Data Engineer

Grade: NNC09 - £50,512 - £53,701 (TBC)

Reports to: Head of Infrastructure

Responsible for:

Directorate and Service area: Technology, Digital and Data

**Commented [TH1]:** Central Beds had a very similar role between £48-£52k a few weeks back - the role was "Azure data engineering specialist"

### Purpose of the job

North Northamptonshire Council (known as NNC) are working to modernise their data management and visualisation processes. We are working to deliver our data analytics strategy. This role will support the design and delivery of the data warehousing, data infrastructure and (where required) the migration of existing data sources (data pipeline and Extract Transform Load (ETL) processes), the primary objective is to create a secure and efficient route for dispersed data sets to be accessed, analysed and visualised through tools such as Power BI and Excel power query. The current technology stack is predominantly based on Microsoft SQL databases, and we are focussing our data strategy on the Microsoft Azure and Office 365 toolsets.

### Principal responsibilities

(Please make these concise and ideally no more than 8)

1. Understand and document the data landscape across NNC – both today and going forwards
2. Scope technical designs and support decision making around required toolsets and processes
3. Define and build required data warehouse solution/s to meet the requirements of the data analytics strategy
4. Lead any required data migrations from on-premises or 3<sup>rd</sup> party hosted databases/repositories
5. Build and support data-pipelines using ETL tools such as MS Azure Data Factory and Databricks

6. Design and manage a standard access method to both cloud and on-premise data sources for use in data visualisation and reporting (predominantly using Microsoft Power Bi)
7. Own and build the security model to ensure access is granted based on least privilege
8. Support NNC teams to adopt new processes and technology to meet their data analytics requirements
9. Support Applications databases within the estate to run effectively and provide improvements

### **General responsibilities applicable to all jobs**

1. Demonstrate awareness/understanding of equal opportunities and other people's behavioural, physical, social and welfare needs.
2. Comply with the Council's policies and procedures including (but not limited to) safeguarding, financial regulations, promotion of equalities, customer care, agreed audit actions and health and safety (ensuring that reasonable care is taken at all times for the health, safety and welfare of yourself and other persons).
3. Understand the councils commitment to Corporate Parenting and take responsibility to support this commitment. Enable the council to be the best corporate parents possible to children and young people in our current and previous care.
4. Carry out any other duties which fall within the broad spirit, scope and purpose of this job description and which are commensurate with the grade of the post.

This job description reflects the major tasks to be carried out by the post holder and identifies a level of responsibility at which they will be required to work. In the interests of effective working, the major tasks may be reviewed from time to time to reflect changing needs and circumstances. Such reviews and any consequential changes will be carried out in consultation with the post holder.

## Person Specification

Attributes	Essential criteria	Desirable criteria
Education, Qualifications and Training	<ul style="list-style-type: none"> <li>Technology related degree level certification or equivalent experience</li> <li>Relevant apprenticeship or A-Level qualifications</li> <li>5 GCSE's grades A-C including English and Maths or other equivalent qualifications</li> </ul>	<ul style="list-style-type: none"> <li>Any MS Azure data certification e.g               <ul style="list-style-type: none"> <li>DP-900/ dynamic</li> <li>DP-203</li> <li>PL-300</li> </ul> </li> </ul>
Experience and Knowledge	<ul style="list-style-type: none"> <li>At least 2 years working in a relevant data focused role</li> <li>A deep understanding of data engineering principles – ideally in an Azure environment</li> <li>Proven experience as a Data Engineer/Specialist in data lake/warehouse and data migration projects</li> <li>Experience building and maintaining ETL processes</li> <li>Experience producing data models and understanding where to use different types of data model</li> <li>Working knowledge of Microsoft SQL – including SSIS and SSRS</li> <li>Supporting application databases</li> </ul>	<ul style="list-style-type: none"> <li>2 years + working with Azure data engineering tools inc:               <ul style="list-style-type: none"> <li>Azure Data factory</li> <li>Azure Synapse</li> <li>Azure SQL</li> <li>Azure DataBricks</li> <li>Microsoft Fabric</li> <li>Azure data lake</li> </ul> </li> <li>Exposure to other data engineering and storage tools:               <ul style="list-style-type: none"> <li>Snowflake</li> <li>AWS tools – Kinesis/Glue/Redshift</li> <li>Google tools – BigQuery/Looker</li> </ul> </li> <li>Experience working with open datasets – ingesting data / building API based queries</li> <li>Understanding of local government services</li> </ul>
Ability and Skills	<ul style="list-style-type: none"> <li>Excellent problem-solving skills and attention to detail</li> <li>Strong communication and teamwork abilities</li> <li>Ability to translate business requirements into technical solutions</li> </ul>	
Equal Opportunities	Ability to demonstrate awareness/understanding of equal opportunities and other people's behaviour, physical, social and welfare needs.	

Attributes	Essential criteria	Desirable criteria
Additional Factors		