

Post Specification

Post Specification - Key Information

- **Post Title: Data Engineer**
- **Date: January 2025**
- **Post Group Number: 8487**
- **Job Family: Regulation and Technical**
- **Job Family Role Profile: RT13**
- **Final Grade: 13**

To be read in conjunction with the job family role profile.

Service Area Description

This post sits within the Policy, Data & Insight Service, part of the Assistance Chief Executive directorate. The team provide a source of central expertise in relation to performance management, data management and governance, information reporting, data analysis and insight generation, policy and strategy development, stakeholder management, overview and scrutiny, corporate strategic planning and equality, diversity and inclusion.

Purpose of this Post

At Westmorland and Furness, our goal is to enhance public services and improve community well-being by innovatively using data. As a Data Engineer in our Data and Insights team, you will be central to creating and maintaining data solutions that enable informed decision-making across the council. In this role, you will collaborate with colleagues to build effective, scalable data solutions that meet diverse needs, support efficient service delivery, and drive impactful change.

Key Job Specific Accountabilities

- **Data Insights and Impact** - Support the Data and Insights Service in providing data-driven insights that empower decision-makers to assess the impact of services on community well-being.
- **Data Pipeline Optimisation** - Develop and maintain efficient data pipelines (ETL/ELT processes) to consolidate data from local government services and external partners like NHS Trusts and housing providers.
- **Lead on implementation of data strategy**, including embedding data governance and best practice within directorates.
- **Data Automation and Optimisation** - Redesign and automate manual data processes for scalability and repeatability, increasing efficiency and accessibility.
- **Data Management** - Create, develop, and manage data models and metadata repositories to support analytical needs effectively and sustainably.
- **Quality Assurance** - Lead testing to ensure data engineering outputs are reliable, identifying and resolving issues promptly to maintain high data quality.

- **Data Governance** - Apply best practices in data security and governance, aligning with GDPR and council policies, and integrating governance into strategies and processes to ensure responsible data usage.
- **Performance Monitoring and Improvement** - Regularly evaluate data products to enhance performance, accessibility, and user experience.
- **Mentorship and Knowledge Sharing** - Provide guidance to junior team members, fostering a collaborative and supportive work culture that promotes continuous learning and professional growth.
- **Industry Awareness** - Stay updated on developments in Microsoft Fabric and other analytics tools, ensuring the council's data practices remain innovative and effective.

Please note: Annual targets will be discussed during the appraisal process.

Key Facts and Figures of the Post

- **Budget Responsibilities:** Not applicable
- **Staff Management Responsibilities:** Not applicable
- **Other:** Not applicable

Essential Criteria

Qualifications:

- Bachelor's degree (with Hons) in Data Science, Statistics, Mathematics, Information Systems, or equivalent professional experience.

Knowledge:

- Proficiency with cloud-based data tools, particularly Microsoft Fabric, Azure Data Factory, Synapse, and experience with Power BI.
- Expert knowledge of data modelling and architecture principles, including experience in developing relevant data models across various subject areas.

Experience:

- Proven experience in data engineering, particularly in designing, building, and maintaining data products, services, and scalable pipelines.
- Experience creating repeatable, scalable automated data flows across complex areas.

Expertise:

- Database management expertise, with experience in creating efficient data structures for analysis and business intelligence.
- Strong understanding of data governance and security, including GDPR and public sector data policies.

Disclosure and Barring Service (DBS) Checks

- This post does not require a DBS check.

Job Working Circumstances

- **Emotional Demands:** Not applicable
- **Physical Demands:** Not applicable
- **Working Conditions:** Not applicable
- **Other JWC Factors:** Not applicable

Other Factors:

- Hybrid Working
- Knowledge of local government data systems, particularly in Public Health, Social Care, and Housing.
- Experience with data visualisation tools such as Power BI or Tableau for developing interactive reports and dashboards.
- Familiarity with big data technologies like Apache Spark in cloud environments (e.g., Azure Synapse).
- Experience integrating data from external organisations, including NHS Trusts and the voluntary sector, using Microsoft Fabric's data integration capabilities.
- Relevant certifications in Microsoft Fabric or data engineering, such as Azure Data Engineer Associate.
- Experience with APIs and data integration within Microsoft Azure/Fabric.
- Proficiency in Microsoft 365 for supporting data workflows, including SharePoint, Power Apps, and Power Automate.