Data Engineering Developer
Job Family – Technical

Grade: F	**Department:** Performance and Analytics
Location: Agile Working	**Security Vetting:** MV

Role Specific Requirements/ Restrictions:	None
Role Specific Hazards:	Display Screen Equipment
System Access Requirements:	Briefing System, CMS, CRS, Custody, Digital Portal, Duty Management System, External e-mail, Information Assets, Internal e-mail, Internet, Intranet, LCS2010, MARF, PNI, Prisoner Processing, Sickness Recording, Tasking (DMS), Trent, Working Time Recording, Case Preparation, Storm, Protect, Intelligence, Crime, Briefing, Compact, Warrants

Role Purpose - To support the development of Business Intelligence and Geographical Information Systems, including system and data pipeline design and maintenance. To assist in providing a single source of reporting information for the organisation using available technologies to enable the timely production of management information, dashboards and reports.

Role Specific Tasks

1. To contribute to the creation, maintenance and administration of a cloud based (Microsoft AZURE) data warehouse and associated Microsoft Power BI Business Intelligence solution to support organisational performance monitoring and reporting.
2. To undertake work on all aspects of the development of robust data pipelines that integrate, consolidate and cleanse information from disparate source systems for inclusion in the data warehouse.
3. To contribute to the structuring and optimisation of large data sets for use in complex analytical applications.
4. To assist in the management of the Power BI Business Intelligence platform ensuring that data sources, report templates and workspaces are available for utilisation by the BI team.
5. To assist in the creation, maintenance and administration of a Geospatial Information database to provide business users with access to geographic shape files, geo data and associated material.
6. To drive continuous improvement by taking an analytical approach to problem solving with the ability to devise original, innovative and creative solutions.
7. To support the Business Intelligence information Systems Specialist to provide expert and creative solutions that maximise automation opportunities and make best use of available technology to ensure the efficient and effective use of force resources.
8. To build expertise and professional knowledge relating to the specialist area, by research and liaison with other forces / national agencies and implementing best practice.
9. To ensure data security and systems access policies are correctly implemented in line with force policy.
10. To monitor technology trends, such as emerging standards for new technology opportunities, and ensure these technologies are used to enhance the efficiency and effectiveness of the force.
11. To build expertise and professional knowledge relating to the specialist area, by research and liaison with other forces / national agencies and implementing best practice where identified.
12. To research, evaluate and introduce advanced analytical techniques, including but not limited to machine learning and predictive analytics thereby enhancing the forces reporting and analytical capability.

Role Generic Tasks

13. To communicate through the medium of Welsh to a level 1 standard or be prepared to achieve this within 6 months of appointment [Click here for the DPP Welsh Language requirements].
14. To deliver advice and guidance to the point of resolution.
15. To undertake activities and administrative tasks as required.
16. To provide an effective and efficient service to both internal and external customers ensuring confidentiality is maintained at all times.
17. To communicate effectively with internal and external customers.
18. To ensure force systems are maintained and updated effectively in line with business processes.
19. To ensure all work is undertaken is compliant with relevant legislation and force policies and procedures, keeping up to date with emerging technologies and best practise.
20. To comply and act in accordance with relevant legislation, Dyfed-Powys Police Policies and protocols, including Code of Ethics, Development Assessment Profile (DAP), Equal Opportunities, Health & Safety, Management of Police Information, Data Protection and Information Security.

To view descriptors of the level of responsibility required of this role please click here.

Note: This job description is provided to give post holders a broad outline of the job activities of this post. Dyfed-Powys Police may require other duties to be undertaken which are not necessarily specified on the job description but which are commensurate with the scale of the post. The job description may be amended from time to time within the scope and level of responsibility relevant to this post.

Skills / Attainments [to be evidenced on application]
Only evidence against these FIVE attainments on your application form

1.	Must be qualified to degree standard or equivalent in an Information Systems related discipline or have considerable relevant experience working within a Business Intelligence / Data Analytics role bringing the role holder to a comparable level **(E)**
2.	Must have effective written and oral communication skills, with an ability to communicate with people at all levels of the organisation **(E)**
3.	Must have effective keyboard inputting skills **(E)**
4.	Must be computer literate, proficient in the use of Microsoft Word and Excel **(E)**
5.	Must have a proven ability to work effectively with a minimum of supervision, organising and prioritising own workload **(E)**

Other skills / experience / knowledge needed for the role and may be assessed during the interview process	
1.	Should have previous experience of Business Intelligence systems design and development. **(D)**
2.	Should have previous experience of working with advanced analytical techniques, such as Machine Learning and A.I. **(D)**
3.	Should have practical knowledge of the Criminal Justice System, Home Office Statutory requirements and police practices and procedures. **(D)**
4.	Must demonstrate a practical approach to problem solving **(E)**
5.	Must demonstrate proficiency at working to a high degree of accuracy and show attention to detail **(E)**
6.	Must be able to travel within the force area as required by the role **(E)**

KEY: (E) – Essential **/ (D)** – Desirable

Please Note: At interview candidates will be assessed against the criteria detailed in the following link Click here. Further details on the interview process are provided as part of the candidate information pack.