

Job Title: Principal Data Engineer	
Job Evaluation Number	C216

JOB DESCRIPTION

Job Title: Principal Data Engineer	Location: Kidlington or Southampton
Job Family: ICT	Role Profile Title: BB4 Police Staff
Reports To: Data Solutions Manager	Band level: 4T
Staff Responsibilities (direct line management of): Nil	

a. **OVERALL PURPOSE OF THE ROLE:** Defines the role, put simply, why it exists.

The overall purpose of the role is to: provide data development, testing, documentation and support of a wide range of new and amended data solutions and services in accordance with enterprise and system architectures and standards to meet defined business needs.

b. **KEY ACCOUNTABILITY AREAS:** Define the important aspects of the role for which the job holder is responsible for results or outcomes.

The key result areas in the role are as follows:

1. Support and maintain locally developed data solutions and their components to meet defined business needs ensuring they retain compatibility with enterprise and solutions architectures. Ensure all relevant aspects of Service Introduction and operations are adhered to
2. Recommend and utilise appropriate industry standard technical tools, methodologies and techniques in an intelligent and effective way to investigate, analyse and improve data solution development. Produce consistently high standards of documentation, presentations and verbal communications using customer language to convey technical information.
3. Develop, test and document new and amended data solutions in accordance with high level designs and agreed standards that are capable of meeting defined business needs and ICT's objectives for developing, implementing and maintaining high quality, resilient and performing ICT systems.
4. Establish, communicate and execute plans for unit and system testing on all developed products taking full remedial action as appropriate and supplying the complete technical documentation set.
5. Implement products into live operation adhering to formal change control processes in conjunction with team lead.
6. Design, build, integrate data from various resources, producing and peer review complex queries that make sure it is easily accessible, works smoothly optimising performance

c. **DIMENSIONS:** Include matters such as key result areas that make the greatest demands on the role holder, seasonal pressures, items processed, the number of customers and/or level of authority to make financial decisions or commit other resources.

Further Comments:

Works under general direction within a clear framework of accountability with substantial personal responsibility and autonomy for technical design, development and support Is one of force's subject matter experts on data solution design, development and support.

Receives work in the form of specific objectives, plans own work to meet given objectives and processes whilst being accountable to the team leader. Influences team and peers and will mentor and critically review other developers work.

Job Title: Principal Data Engineer	
Job Evaluation Number	C216

The role holder will work with immediate and or / wider ICT team members to share best practice whilst providing development and performance assistance when required. They will act as a subject matter expert to provide guidance and advice to all TVP staff where necessary.

d. CHARACTERISTICS OF THE ROLE

Expertise: Concerned with the level of administrative, professional and/or technical expertise (knowledge and skills) needed to perform the role effectively; may be acquired through experience, specialised training, and/or professional or specialist education and training.

<i>The knowledge or skills required in the role are as follows (essential or desirable):</i>	<i>E/D</i>
1. Ability to translate data into valuable insights that inform decisions. Experience of involving teams in analytics and synthesis to increase consensus and challenge assumptions. Identifies and utilise the most appropriate analytical techniques whilst having an understanding of analytical tools. Is aware of and keeps up to date with advances in digital analytics tools and data manipulation products. Collects, collates, cleanses, synthesises and interprets data to derive meaningful and actionable insights.	E
2. Develop fit for purpose, resilient, scalable and future-proof data services to meet user needs. Has a demonstrable understanding of how to expose data from systems (for example, through APIs), link data from multiple systems and deliver streaming services.	E
3. Produce data models and understands where to use different data model types. Understands different tools and can compare between different data models. Able to reverse engineer a data model from a live system. Understands industry recognised data modelling patterns and standards	E
4. Design, write and iterate code from prototype to production-ready. Understand security, accessibility and version control. Can use a range of coding tools and languages.	E
5. Plan, design, manage, execute and report tests, using appropriate tools and techniques, and works within regulations. Ensure deployment risks are adequately understood / documented.	E
6. Integrate / separate data feeds in order to map, produce, transform and test new data products.	E
7. Design, write and iterate code from prototype to production-ready. Ability to understand security, accessibility and version control. Can use a range of coding tools and languages.	E
8. Experience in using some (if not all) of the Data Management tools for example Microsoft SSMS to SSIS, SSDT/SSAS, SSRS, PowerBI and SQL.	E
9. Must have capability to travel to different locations across both Forces and undertake all assignments in a timely manner. Due to the requirement to work flexibly, unsocial hours and personal safety for lone working; public transport may not be available or suitable at these times. For this reason a full UK driving licence is considered essential.	E
10. Understands a variety of metadata management tools. Designs and maintains the appropriate metadata repositories to enable the organisation to understand their data asset.	D
11 Logs, analyses and manages problems in order to identify and implement the appropriate solution. Ensures that the problem is fixed.	D
12. Recognises/exploits business opportunities to ensure efficient and effective performance of organisations. Explores new ways of conducting business and organisational processes	D
<i>Additional comments:</i> * At interview, candidates will be asked to confirm their willingness to undertake this Basic Driving Assessment, which in turn will enable the use of a police authorised vehicle.	