**Data Scientist**

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| **Police Staff** **Data Scientist** **Information & Communication Technologies Department** **Role Definition: 20773** |

**ROLE DEFINITION**

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| Dept / Area Command: | Information & Communication Technologies Department | http://domcms/icons/ecblank.gif | Section: | Application and Data Management |
| Post Title: | Data Scientist | http://domcms/icons/ecblank.gif | Post Reference: | 20773 |
| Post Grade: | Grade I | http://domcms/icons/ecblank.gif | Location: | As required within the Force area including home working |
| Car User Status: | Casual | http://domcms/icons/ecblank.gif | Telephone Allowance: | Mobile Provided |
| Shift Allowance: |  | http://domcms/icons/ecblank.gif | Standby Allowance: |  |
| Weekend Enhancement: |  | http://domcms/icons/ecblank.gif | Contractual Overtime: |  |
| Line Manager: | Principal Data Manager | | | |
| Staff Responsibilities: | No line management responsibility | | | |
| Purpose: | To design, create, support and monitor Force data structures and models to support the data management, analysis and reporting needs of the Force, presenting data and information in an effective and performant manner so as to add value. | | | |
| Vetting: | RV – access to official sensitive and occasional secret information | | | |

**Key Responsibilities:-**

1. Define and create low level data structures that sufficiently support both the current and future data needs of the Force, including design and development of reusable metadata libraries.
2. Translate business requirements into effective conceptual, logical and physical data models and define version control mechanisms and strategies to successfully maintain all data models and structures.
3. Provide support and advise to ensure effective and sustainable use of data within projects and initiatives.
4. Identify opportunities for innovation through existing or future data capabilities.
5. Raise the standards of data quality & integrity through use of policy and procedure, standards, frameworks and tools.
6. Define data integration requirements, including affiliated business rules, and design then develop data integration solutions.
7. Perform Extract Transform Load [ETL] processing to support the Force's data interoperability needs.
8. Support testing and live running of data products and services, and undertake data quality measures to ensure quality of data is consistently maintained.
9. Monitor, manage and resolve issues affiliated with data structures, models and interfaces.
10. Fully understand the security, data and technical constraints affiliated with data management and use the data ethics framework to encourage transparency, accountability and fairness when processing and analysing data.
11. Provide internal consultancy, advice and strategic direction on effective data analysis, integration and interoperability.
12. Support assigned data and information projects, ensuring that data and information provision meets the needs of the Force in a responsive and secure manner.
13. Ensure that the appropriate documentation and activities have been successfully concluded prior to a data change, solution or process transitioning into a live service.
14. Participate in the system of implementation and recovery procedures including work outside standard office hours and take part in the call-out/stand-by rota, in order to satisfy the needs of system users.

The postholder may be required to undertake such other responsibilities as are reasonably commensurate with the grade of the post.

**Essential Skills, Experience and Qualifications**

* Educated to degree level (or equivalent relevant experience)
* Strong Data Analysis experience
* Knowledge of using QDI Compose, Replicate and Catalyst
* Knowledge of Data Interoperability and Integration frameworks and ETL best practice
* Knowledge of Ethical Standards Framework
* Experience of relational data base technologies; e.g. Oracle, SQL Server
* Experience of relational and multi-dimensional data model design
* Experience of data mining models and statistical techniques
* Experience of using an ITSM tool
* Excellent communication skills, both verbal and written
* Knowledge of Reference data management
* Knowledge of Master data management
* Experience of Meta-Data management
* Knowledge of Data life-cycle management
* Experience of Data quality management
* Experience of Corporate and regulatory compliance

**Desirable:**

* Experience of using QDI Compose, Replicate and Catalyst
* Knowledge of Atlassian’s Jira ITSM solution
* Experience of working in a public sector or police force environment
* Knowledge of ITIL4 lifecycle