

JOB DESCRIPTION



Role title:	Data Engineer
Grade and salary:	M – Salary £41,517 - £49,134
Hours:	37
Department or Division:	Information Services
Location:	Derbyshire Constabulary Force Headquarters, Ripley
Post reports to:	Digital Development and Delivery Manager
Suitable for job share or part-time:	Yes
Other considerations:	All successful applicants will be required to submit themselves for drug testing in line with the Force's Drug Policy. Vetting residency requirements: 5 years continuous UK residency.
Date last reviewed:	June 2022

PURPOSE AND DESCRIPTION OF JOB ROLE:

Derbyshire Constabulary have data and analytics at the heart of how we deliver policing. You will be working within a team responsible for delivering Digital Excellence, assisting in development of solutions to make that possible. You will be working with some of the latest technologies to transform data from transactional database, allowing analysis to take place from a central data repository.

You will be working alongside the analytical team, developing, and constructing data products and services that integrate into systems and business processes. You will also ensure data is available in a timely manner to allow informed decisions to be made.

SPECIFIC ROLES AND RESPONSIBILITIES:

- Communicate effectively across organisational and technical boundaries, understanding the context and ensuring complex and technical information is simple and accessible for non-technical audiences
- Understand analytical tools and are numerate. Aware of and keep up to date with advances in digital analytical tools and data manipulation products. Collect, collate, cleanse, synthesise and interpret data to derive meaningful and actionable insights

- Integrate and separate data feeds from multiple sources in order to map, produce, transform, and test new data products
- Understand opportunities for innovation with new tools and the use of data
- Deliver data solutions in accordance with agreed organisational standards that ensure services are resilient, scalable and future-proof
- Log, Analyse and Manage problems in order to identify and implement the appropriate solution and ensure the problem is fixed
- Design, Write and iterate code from prototype to production ready, understanding security, accessibility and version control. You can use a range of coding tools and languages
- Execute test scripts under supervision and understand the role of testing and how it works
- Using a variety of database tools to write complex queries
- Design, build and test data products based on feeds from multiple systems using a range of storage technologies and/or access methods. You know how to create repeatable and reusable products

SKILLS AND EXPERIENCE REQUIRED:

Essential:

- Educated to degree level in Applied Mathematics or Computer Science (or similar degree subjects), or equivalent work experience
- Understanding of cloud, on premise and hybrid architectures
- Experience of developing data driven solutions using cloud technologies
- The ability to optimise data bases through indexing and performance tuning
- Knowledge of utilising and identifying appropriate data architectures (data lake, data warehouse and data mart)
- Awareness of different methodologies for data storage design

Desirable:

- Microsoft SQL Server Qualifications
- Microsoft Azure Qualifications (e.g. Microsoft Certified Azure Data Engineer Associate)
- Oracle Database Qualifications
- Big Data experience
- Experience of latest cloud database technologies
- Knowledge of ITIL
- Hands on experience of Power BI
- Experience of producing high quality briefings and reports for senior officers and/or staff

PERSONAL QUALITIES:

We have identified nine competencies that help describe what effective behaviour looks like in Derbyshire Constabulary. These competencies illustrate how we put our Force's guiding principles into practice so that everyone understands what is expected of them in their day-to-day work:

Acting with Integrity: Is trusted and respected by others and is known as someone who does what they say they'll do. Understands the impact and consequences of doing (and being seen to do) the right thing, is happy to raise concerns and will challenge inappropriate or unethical behaviour.

Working with others: Works to develop a positive team spirit and appreciates the value different backgrounds and experience can contribute to team success. Is approachable and inspires others to do their best. Treats others with dignity and respect, and maintains a positive, friendly outlook. Appreciates the contributions of others – and lets them know.

Problem solving and innovation: Uses experience, creativity and common sense to solve problems practically and innovatively. Makes sure they fully understand the problem, its cause and implications. Seeks the input and views of others. Weighs up options to make sure the solution they choose is the most effective and makes good decisions in a timely way.

Planning and organising: Is clear about their goals and creates plans and processes that are targeted at the right priorities – those that will truly deliver the most value. Copes well with change and uncertainty, knows that it's not always possible to get the full picture or remove every risk before taking action.

Communicating and influencing: Presents written and verbal communication in a clear and effective way. Puts across points of view persuasively, but keeps an open mind and is willing to change their position if sound arguments are presented back.

Personal development: Takes opportunities to improve their skills, knowledge and experience. Gives and seeks constructive feedback to help them and others develop successfully.

Delivering results: Delivers what is needed when promised. Enjoys adding value, knows what needs to be done and stays focused. Identifies issues or obstacles that could prevent or delay getting things done and takes appropriate action.

Customer focus: Knows how they personally support the service we provide to the public. Is absolutely passionate about adding value for the public and internal stakeholders, improving processes and removing unnecessary cost and waste. Understands how their attitude and behaviour impacts on public perception of the service we provide.

Operational and technical awareness: Keeps well-informed and knows what internal and external factors could impact on our performance. Promotes and pushes activity that improves performance and our service to the public. Is knowledgeable and effective in their area of expertise.