

Job Description: Data Engineer

Reports to: Lead Data Engineer

Location: West London – currently operating an agile working policy with two core days (Mon and Weds) in the office

Contract: Permanent

Pattern: Full Time (standard hours 9am – 5.30pm)

Salary: £45,000 to £50,000 (depending on experience)

About the role:

We are seeking a Data Engineer to join our team and ensure alignment between our data warehouse and Ark's requirements. The role includes designing and implementing improvements, integration of new systems and liaison with a range of stakeholders and third-party contractors.

The Data Engineer will oversee the interconnectivity between the Ark Schools' data warehouse and related software, including Management Information Systems. The Data Engineer will work with the Lead Data Engineer to ensure that standard software within the data eco-system is effectively implemented across Ark Schools.

The Data Engineer will be proactive and solution-oriented and keen to develop their skill set and knowledge to keep abreast of the industry leading approaches to data management.

Key Responsibilities:

Data engineering

- Design, build and test data systems and pipelines with our chosen ETL tooling to Ark business requirements
- Perform regular and ad-hoc configuration and optimisation of the data platform
- Act as second line support for systems issues where they relate to the data pipeline
- Monitor and report on service quality and availability

Data governance

- Support the creation and maintenance of the data dictionary and business data model
- Ensure the security and resilience of Ark Schools data platform
- Ensure appropriate sharing and levels of data access to consumers of Ark data
- Build and maintain tests of our data to ensure its quality and integrity
- Work with colleagues with responsibility for data governance to ensure the correct handling of Ark data

Project management

- Identify and document requirements to extend or performance tune the Ark data platform
- Contract with stakeholders to agree deliverables, resourcing (inc. spend), and timelines
- Work with colleagues in the Insight team to understand structural database requirements
- Participate in the Change Advisory Board to plan and agree changes across Ark data and systems
- Work with the Lead Data Engineer on the design phase of new in-house projects
- Undertake small projects, to improve existing processes or to comply with new requirements

Other

- Perform duties or tasks as commensurate with the role to meet the business objectives of Ark Schools
- Maintain a commitment to professional development and keep abreast of sector and industry developments
- Support the creation and amendment of dashboards and visualisations in line with project requirements
- Manage refreshes to ensure that analytics data is surfaced in time and without error
- Support the management of access to the data consumption tooling

Person Specification: Data Engineer

Knowledge & Skills

- Working knowledge of relational database systems
- Working knowledge of SQL and procedural scripting
- Understanding of requirements for data storage under DPA and GDPR
- Experience of writing technical documents and release notes
- Experience of ETL and replication technologies
- Experience with data consumption tooling (Tableau/PowerBI/Alteryx)
- Experience with IntelliJ and Github
- Working knowledge of modelling database tools
- Working knowledge of application development environments
- Experience with cloud ETL tooling (Azure DF + SQL Server)
- PostgreSQL Associate/Professional Level Certification
- Knowledge of school MIS and other systems
- Understand the specific data collection requirements in education
- Awareness of the data challenges facing the education sector

Personal Qualities

- Passionate about the aims and values of Ark
- Self-motivated and resilient, with a “can do” attitude
- Able to communicate to both technical and non-technical audiences
- Works calmly and pragmatically under pressure
- Able to prioritise workloads to reflect business priorities
- Excellent interpersonal skills, both written and oral
- Motivated to improve standards and deliver beyond expectations
- Output driven, with a focus on outcomes and fulfilling requirements

Other

- Right to work in the UK
- Commitment to equality of opportunity and the safeguarding and welfare of all students
- Willingness to undertake training
- This post is subject to an enhanced DBS check

Ark is committed to safeguarding and promoting the welfare of children and young people in its academies. In order to meet this responsibility, its academies follow a rigorous selection process to discourage and screen out unsuitable applicants.

Ark requires all employees to undertake an enhanced DBS check. You are required, before appointment, to disclose any unspent conviction, cautions, reprimands or warnings under the Rehabilitation of Offenders Act 1974 (Exceptions) Order 1975. Non-disclosure may lead to termination of employment. However, disclosure of a criminal background will not necessarily debar you from employment - this will depend upon the nature of the offence(s) and when they occurred. To read more about Ark's safer recruitment process, please click this [link](#).

We aim to build a diverse and inclusive organisation where everyone – staff and students – can do their best work and achieve their full potential. We want to reflect and represent diverse perspectives across our organisation because we know that doing so will make us stronger and more effective. To know more about Ark's diversity and inclusion commitments, please click on this [link](#).