

JOB DESCRIPTION



Title: Data Engineer

Reports to: Analytics Manager

Responsible for: N/A

Office location: Agilysis' Banbury office, and other locations as required (including client premises and home working)

Job Purpose

The post holder will play an important role in the management and analysis of data within our team of experienced experts. They will take responsibility for the creation and management of new data warehouses and other environments to store transport data, including geospatial information on road networks. They will support other team members with processing routine and regular imports of open and commercial data, and also ad-hoc requests for specific customers or projects. They will also have the opportunity to develop and deliver analytical tools and solutions for clients using a variety of platforms, and also get involved in analysing the meaning behind the data.

Key Responsibilities

- Responsibility for managing data sources used in Agilysis' analytical tools and research.
- Creation of modern database systems and infrastructure to hold the array of transport and related datasets used by the team and to ensure they are inter-related, up-to-date, and accurate.
- Process and match datasets, especially geospatial ones, producing outputs that can be imported into online tools and products for use by the team and our clients.
- Work closely with the Data Scientist to maintain critical reproducible analytical pipelines supporting our solutions.
- Responsibility for ensuring that data issues are resolved swiftly, and background processes are robust and actively monitored.
- Support others in the analysis of patterns and trends in data to inform our work for clients in the UK and overseas.
- Help clients to understand our data, providing assurance on quality and reliability, and assisting in technical support and associated materials e.g. FAQs.
- Attend training and pursue continuous professional development to advance and maintain relevant knowledge and skills.


Scope and Scale

The purpose of this role is to work as part of a specialist analytical team, using an in-depth knowledge of databases, data management, and analysis to support a range of project and solutions. The role will work alongside the Analytics team to provide the critical function of data management, whilst also having the opportunity to contribute to the development of tools and solutions. There will be substantial opportunities to develop analytical, technical, and professional skills and knowledge – including working alongside our Data Scientist.

Performance Expectations

The post holder will be appraised by their supervisor and will be responsible for regular delivery of certain standard products and research projects. They will exhibit a degree of autonomy and should be able to work with appropriate guidance in accordance with agreed policies and procedures.

Approval & Review

Signed: 

Date: 09/02/2024

Post approved by: R.Owen

This job description is due for review on: 09/02/2025

Job Description

Agilysis Limited

A company registered in England

Company registration number: 10548841

VAT registration number: 260 4741 19

Directors: D Campsall, R Owen, B Walton, K Batchelor, T Fosdick

Registered Office: 27 Horse Fair, Banbury, Oxfordshire, OX16 0ES

Title: Data Engineer

Business Competencies

Scale 0 - 4	Expected level of competence
Strategy and planning	2
Commercial awareness	2
Service provision (contract management, accounts, etc)	1
Leadership and initiative	2
Changing and improving	2

Education, Training & Qualifications

Scale 0 - 3	Expected level of competence
Educated to GCSE level or equivalent	3
Educated to A-Level or equivalent	3
Relevant University degree	2
Relevant professional qualification or certified training	2

Key Competencies

Scale 0 - 4	Expected level of competence
Collaboration and communication skills	2
Organisational and time management skills	2
Ability to curate and implement procedures and processes	2
Microsoft Office Suite and basic IT literacy	4
Flexible working	1
English language skills, both written and verbal	2

Administration (Contracts, appraisals, Ts & Cs, general paperwork/documentation, etc)	1
Full driving licence and use of a car*	1

*Scale 1 - 3

Management Competencies

Scale 0 - 4	Expected level of competence
People	2
Projects	2
Finance	0
Change	2
Risk	2

Knowledge and Skills

Essential Skills	Desirable Skills
Data management and infrastructure (e.g. SQL Server, PostgreSQL, MySQL, AWS, Azure)	GIS analysis and processing tools (ArcGIS Pro, ArcGIS Online, ArcPy, QGIS)
Data processing (e.g. SQL stored procedures, SSIS, SSAS, R, PostgreSQL)	Github
	BI tools including dashboards (Power BI, Tableau etc)
	Advanced Excel Skills
	Familiarity with R or similar programming languages

Essential Knowledge and Experience	Desirable Knowledge and Experience
Relational database management	Transport safety analysis and data
Data manipulation	Geospatial analysis
Working as a part of a multidisciplinary team	Programming and build
Creating solutions to solve problems	

Approval & Review

Signed:



Date:

Profile approved by: R.Owen

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Person Profile

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