

**SOLVE
SOMETHING
IMPORTANT**

Data Engineering

Service Definition Document

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Data Engineering

1 WHAT THE SERVICE IS

Leidos provides end-to-end Data Engineering Services from Discovery to Design and Implementation of modern, scalable data pipelines using Cloud and traditional technologies. Our Data Engineering team provides expert knowledge, using industry standard tools/processes to manage and optimise solutions enabling customers to become 'data driven' and realise maximum value from data.

FEATURES

- SC and DV Cleared AWS and Azure qualified Data Engineers;
- Comprehensive requirements gathering to capture and align with business needs;
- End-to-end platform review and architecture design for scalable solutions;
- Technical planning, consultancy, and proof-of-concept delivery;
- Design and implementation of robust data processes and approaches;
- Development of secure, high-performance data pipelines;
- Seamless migration of data to cloud-based infrastructure and storage;
- Multi-cloud expertise in data ingestion, processing, and integration;
- Rigorous quality assurance including data validation, tooling, and skills assurance;
- Advanced data preparation to enable analytics and complex AI solutions;
- Structured training and knowledge transfer to empower client personnel;
- Ongoing maintenance and support with real-time monitoring, enhancements, and improvements;
- Big Data processing at scale using Spark, Flink, and Kafka;
- Design and deployment of modern data platforms including Snowflake, Databricks, BigQuery, and Synapse;
- Implementation of data lake and lakehouse architectures with Delta Lake, Iceberg, or Hudi;
- Real-time and streaming pipeline design leveraging event-driven architectures (Kafka, Kinesis, Pub/Sub);
- Automated pipeline orchestration with Airflow, Prefect, or Dagster;
- Data quality assurance and observability using frameworks such as Great Expectations and Monte Carlo;
- Performance optimisation and cost-efficient scaling for petabyte-scale datasets in cloud environments;
- Integration of data engineering workflows with machine learning feature stores and real-time inference pipelines.

BENEFITS

- Cloud solutions delivered and assured by market-leading professionals;
- Scalable, secure, highly available, and cost-effective cloud platforms;
- Leveraging AWS and Azure to accelerate data analytics and machine learning initiatives;
- Improved responsiveness with the ability to quickly ramp and scale teams;
- Maximising data value through advanced visualisation, business intelligence, and actionable insights;
- Cost avoidance through optimisation of data storage and compute resources;
- Reduced risk with information security assurance and compliance to industry standards;

- Seamless migration of data and transition of services to minimise disruption;
- Better results from development best practice and adherence to quality standards;
- Improved resilience through disaster recovery and business continuity planning;
- Enhanced agility with modern data platforms such as Snowflake, Databricks, and BigQuery;
- Faster decision-making enabled by real-time and streaming data pipelines;
- Future-proof architectures through data lake and lakehouse adoption with governance built in;
- Greater reliability with proactive data quality monitoring and observability frameworks;
- Operational efficiency through automated pipeline orchestration and DataOps practices;
- Optimised performance and reduced cloud spend at petabyte scale through tuning and cost management;
- Competitive advantage by integrating data engineering workflows with AI/ML feature stores and real-time inference.

OVERVIEW

Leidos offers tailored Data Engineering Services to align with customer's infrastructure strategies, whether that be On-Cloud, On-Premise or a Hybrid approach. All of which can be delivered as part of a wider Leidos Solution offering or via a consultancy service.

The services offered by Leidos encompass:

- Data Collection, Capture and Ingest Services;
- Data Processing (ETL, Cleaning and Curing) Services;
- Data Storage Services;
- Data Replication and Real-Time Streaming Services;
- Data Migration Services;
- Data Sharing and Interoperability Services;
- Data Labelling Services;
- Data Wrangling Services;
- Data Warehousing Services;
- Data Manipulation Services;
- Data Modelling Services;
- Data Pipelining Services;
- Data Optimisation Services;
- Data Interrogation and Profiling Services;
- Data Transformation Services;
- Data Monitoring and Observability Services;
- Data Workflow Management and Orchestration Services;
- Big Data Engineering Services (Spark, Flink, Kafka);
- Data Lake and Lakehouse Services (Delta Lake, Iceberg, Hudi);
- Pipeline Automation Services (Airflow, Prefect, Dagster);
- Data Quality and Reliability Services (Great Expectations, Monte Carlo);
- Data Governance Services including Lineage, Metadata and Compliance.

We are technology partners and experts in delivering programmes with established Cloud-Technology providers, such as AWS, Microsoft Azure, Google Cloud, and other technology leaders in the data area, utilising COTS products and open-source technologies. We tailor our offerings to customers' detailed

requirements and needs to provide maximum benefit to our customers with scalable, fit-for-purpose and cost effective solutions.

2 ANY ONBOARDING AND OFFBOARDING SUPPORT YOU PROVIDE

Where relevant, Leidos will adopt a consultative approach with customers to define and validate their requirements in order to determine how best to engage with the services. The onboarding and offboarding process is dependent on the specific requirements of the solution, and the delivery methodology agreed upon.

3 PRICING

Please refer to the associated Pricing Document relevant to this Service.

4 TERMS AND CONDITIONS

Please refer to the associated Terms and Conditions Document relevant for our Service Offerings.

5 FURTHER INFORMATION

Please send your requirement to publicsector@uk.leidos.com. Alternatively, if you wish to discuss your requirements in more detail, please send us the following information and we will be happy to contact you:

1. Your organisation name
2. The name of this service
3. Your name and contact details
4. A brief description of your business situation
5. Your preferred timescales for starting the work.

ABOUT LEIDOS

Leidos is a leading partner to the UK government and the Scottish government as well as having key client partners in transportation and energy. Leidos employs 1300 people across the UK supporting technology and business process transformation programmes for clients such as the Home Office, the Ministry of Defence, the Metropolitan Police Service and NATS.

The success of this work in the UK and beyond shows that we are a trusted partner in the region and that our people can deliver innovative solutions to solve the most challenging problems.

LEVERAGING OUR CORE CAPABILITIES

Our technical core capabilities define the areas in which technical excellence is critical, not only for our business, but in the work we do daily to help customers achieve the important missions on the frontlines of their industry. Explore our core capabilities [here](#).



Digital Modernisation



Cyber Operations



Mission Software Systems



Integrated Systems



Mission Operations



INCLUSION AND DIVERSITY IN LEIDOS UNITED KINGDOM

Leidos is committed to creating a diverse and inclusive workplace, where every colleague has the opportunity to contribute, share their unique ideas and talents, and be supported in their career. Explore Inclusion and Diversity in the UK [here](#).

SOCIAL VALUE

We're committed to supporting sustainability initiatives, tackling workforce inequality and STEM education by enriching the communities to our operations. Learn more about Social Value in the UK [here](#).