

JOB DESCRIPTION (JD)

Sun Life Asia Job Evaluation Process

Date: _____	Manager name: _____
Job title: <u>Principal Data Engineer</u>	Manager title and GCF level: <u>Senior Delivery Manager, Data Services</u>
Job level: _____	Department: <u>Architecture and Technology Modernization</u>
Career track: <u>Professional</u>	BU/Division: <u>Sun Life Vietnam/ IT</u>

Job purpose

Please provide a summary of the purpose and objective of the job.

As Principal Data Engineer on our Data Service Team, your purpose is to drive tangible business outcome by providing solution, development, and optimization of scalable and high-performance data architecture. You will be pivotal in empowering business users with timely, reliable, and actionable data, directly impacting and improving organization decision-making, operational efficiency, and customer experience. Your ultimate goal is to enable data-driven initiatives and advanced analytics that are fundamental to the company's strategic growth.

Major accountabilities

Identify 5-6 major accountabilities of the job (not the employee). Describe these accountabilities by what is to be accomplished, how and why. Use action verbs to begin each sentence. Avoid the use of acronyms. Include the approximate percentage of time spent on each accountability. The percentages below should sum up to 100.

1. Deliver reliable and scalable data pipeline by designing, building and managing data pipelines that ensure timely, reliable, and high-quality data delivery, enabling the business to make data-driven decisions efficiently	40%
2. Facilitate business outcome through cross-functional collaboration by working closely with market business stakeholders, regional teams to understand requirements and data solutions that directly impact to business outcomes and customer experiences	20%
3. Ensure data quality and integrity by proposing and implementing data quality rules to maintain accuracy, consistency, and trustworthiness of data used in reporting, analytics and operational systems	20%
4. Enable cost-effective and high-performing data infrastructure by continuously optimizing data architectures and workflows to reduce processing costs, improving system performance, and supporting scaling of data solutions	10%
5. Drive innovation in data engineering practices by introducing and applying modern engineering tools, techniques, and best practices to enhance team's productivities	5%
6. Other assignments	5%

Specialized knowledge

List specific types of technical or professional skills and knowledge required for the job.

Technical skills:

- Strong experience in AWS data stack such as AWS Glue Job (PySpark), Glue Data Catalogs, Glue Data Quality, Lake Information, Lambda, S3, IAM
- Strong experience in application data architecture, data design patterns such as data lake, data warehouse, and data marts for life insurance
- Strong knowledge of SQL and NoSQL such as spark query, Athena, Redshift, PostgreSQL, SQL Server, DynamoDB.
- Good knowledge in ETL batch, micro batch workflow by using SSIS
- Good knowledge of life cycle of application developments.
- Good knowledge of DataOps tools and practices (source control, build, CI...).

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Soft skills:

- Effective project communication
- Collaborative Problem-Solving session
- Critical evaluation of Data Architecture
- Embracing change and learning
- Cross-function team projects

Problem solving

Outline problem solving requirements in terms of how standardized, varied, complex and interdependent problems and issues are typically faced by this job. Provide examples if necessary.

The Principal Data Engineer is expected to proactively identify root causes of recurring or potential data issues, ranging from pipeline reliability, data quality, system performance, scalability, and cost optimization

The role demands strong analytical and problem-solving skills, with a proven ability to architect and implement effective, scalable, and long-lasting solutions that directly support critical business decisions and operational excellence. This role requires solving a wide range of complex and interdependent problems across data architecture, engineering workflows, and business data needs

Education and experience

Indicate the minimum education level and years of relevant experience required to perform the work. Include specific professional designations, licenses, registrations, if applicable.

Education: University or College degree in IT or equivalent.

Experience: at least 7 years of experience in Data development.

Communication scope

Identify the level and nature of internal and external contacts with whom this job must interact regularly. Describe the reason and frequency of their communication.

The role requires strong communication skills to clearly articulate complex technical concepts to both technical and non-technical audiences

- Internal Teams: Regularly collaborate with Data Engineers, Software Engineers, Data Analysis, Reporters on both local and regional to design and deliver scalable data solutions.
- Cross-function collaboration: Regularly engages with Business users from other departments to ensure data solutions adhere to regulatory requirements, data governance policies, and industry best practices

Management scope

Total number of direct reports: N/A
Total number of staff managed (direct and indirect): N/A

Metrics (if applicable)

Finance metrics (revenue, budget managed, etc.): N/A
Sales metrics (type and amount): N/A
Other metrics (specify): N/A
Travel required (express as % of working time): N/A