

Job Description	
Position	Chief Engineer (Database)
Department	Technical Services
Division	Information Services

SUMMARY OF RESPONSIBILITIES

The designated Chief Engineer provides deep technical expertise and is tasked with the overall responsibility for the planning, design, implementation, operations and on-going maintenance of Paynet's database landscape which includes Oracle and Microsoft SQL. This will encompass standardization of database architectures / deployment strategies, formalizing our data backup and retention policies, database performance fine tuning and the consumption of ancillary Cloud database services.

Additionally, the candidate will be required to be a mentor to other team members.

KEY AREAS OF RESPONSIBILITIES

- Key participant in a cross-functional team (consisting of network, storage, compute, security) which will be leading the planning, design, implementation and operations of our Future State Architecture (FSA).
- Future State Architecture will cover the following minimally: standardizing on a subset of deployment architectures for our Oracle and Microsoft SQL fleet to drive scalable operations and deep-dive technical capabilities.
- Overall lead for the detailed planning and execution of the multi-year phased services migration (JomPAY, FPX, DuitNow et al) to the Future State Architecture with minimal downtime from a database perspective.
- Keep abreast on emerging database technologies which may be appropriate for adoption which would supplement our agility and provide the foundation to execute organization goals in an expedited manner.
- Coordinates and plans work packages for technical database operations and project execution for team members within the department / Information Services Division.
- Acts as the technical escalation lead for the design, installation, operation, service and maintenance of any BAU database solution and implementation (across various layers).
- May lead systems and database integration with external entities to ensure a successful implementation, when necessary.
- Participates in any computer emergency response team in response to various security incidents such as denial of service attacks, malware infestations and internal fraud attempts.
- To build and enhance the database monitoring capability: capacity, response and query degradation.
- To maintain an accurate record reflecting the current and historical database and system settings including the decision making rationale for said configuration.
- To inculcate the best practices, operational discipline and guidelines across the database team.
- To participate in yearly audit exercises and ensure requirements are adhered to at all times.

Organizational (organizational responsibilities)

- To participate in other working groups of small projects undertaken by the division on issues with regards to Database Architecture & Design.

QUALIFICATIONS**Minimum Qualifications**

- Degree in Computer Science with a minimum of 10 years of relevant work experience.
- Microsoft SQL and Oracle certification would be an added advantage.
- Experience in the IT banking and Telecommunications sector would be an added advantage.

Technical Qualifications

- Expert level knowledge with Oracle and Microsoft SQL databases across multiple software revisions.
- Extremely experienced architecting and designing from ground zero a resilient, highly available and low latency database infrastructure within on-premise and cloud provider infrastructure.
- Must be adept at programming in at least one language: Python, Ruby, Perl or advanced shell scripting.
- Extensive implementation experience with database intricacies:- log shipping, sync vs async replication, AWR, RMAN, REDO, indexing, log switches, data shards, masking, database encryption permutations and their ramifications, data schemas, connection pooling and query fine-tuning.
- Experienced performing systems based performance bottleneck analysis and remediation as it pertains to the database implementation:- vmstat, iostat, lsof, sar, collectl and sysblock.
- Implementation experience with Cloud offerings from AWS and GCP such as RDS, Redis, Cassandra, Spanner, Aurora or DynamoDB would be an advantage.

Additional Requirements:

- Effective communication skills.
- Extremely diligent, fine eye for details, supreme problem solving capabilities and a team player.