

JOB DESIGNATION: Infrastructure & System Engineering Specialist (1 year contract)
DEPARTMENT: Digital System Development (DSD)
DIVISION/PILLAR: Integrated Services & Solutions Deployment (ISSD)
REPORTING TO: Assistant Manager, DSD (Technical Lead NIMP)
JOB DESCRIPTION
<ol style="list-style-type: none"> 1. System Architecture & Integration <ul style="list-style-type: none"> • Assist in designing system architecture, module integration, and backend infrastructure. • Prepare API integration specifications and ensure component compatibility. • Provide technical guidance to developers on infrastructure-related implementation. 2. Database Engineering & Data Management <ul style="list-style-type: none"> • Maintain database schemas, indexing, and normalization. • Oversee performance tuning, backup, and restoration routines. • Ensure data integrity, security, and availability. 3. Infrastructure Setup & System Deployment <ul style="list-style-type: none"> • Set up and manage hosting environments (cloud/on-prem). • Configure and maintain virtual machines, containers, servers, and development environments. • Implement and support CI/CD pipelines. • Conduct system monitoring, log analysis, and uptime tracking. 4. Network Infrastructure & Data Centre Coordination <ul style="list-style-type: none"> • Coordinate with internal ICT/ Data Centre teams for hardware allocation. • Support configuration of VLANs, routing, switches, firewall rules, and load balancers. • Maintain network topology and infrastructure documentations. 5. System Security & Compliance <ul style="list-style-type: none"> • Enforce security controls on infrastructure, access, and data environments. • Conduct vulnerability checks and remediation actions. • Support internal and external ICT audits. 6. Performance, QA & Troubleshooting <ul style="list-style-type: none"> • Assist QA team with backend diagnostics and performance analysis. • Perform load/stress testing and optimize infrastructure. • Troubleshoot server, API, and deployment-related issues. 7. Promotion & Stakeholders Support <ul style="list-style-type: none"> • Prepare system and infrastructure diagrams for stakeholders. • Support technical demonstrations when needed. • Support technical lead in showcasing hosting reliability and scalability. 8. Other Assigned Tasks <ul style="list-style-type: none"> • Perform ad-hoc task or any other related technical tasks assigned from time to time by the technical lead or the Management to support the department objectives.
COMPETENCIES
<ol style="list-style-type: none"> 1. Bachelor's Degree in Computer Science or Information technology or Network Engineering or Equivalent. 2. 3 years and above of experience in system engineering, infrastructure operations, DevOps, cloud hosting, network engineering, backend or system architecture.

3. Possess professional certifications in CCNA or CompTIA Network+ or Azure/AWS Associate or Linux+ or VMware VCP will be added advantage.
4. Knowledgeable in system architecture and backed integration.
5. Proficient in Linux/Windows Server administration, networking fundamentals (VLAN, switching, firewall rules), and virtualization (VMware/Hyper-V).
6. Proficient in database management (MySQL, PostgreSQL, SQL Server), cloud hosting and on-premises server infrastructures.
7. Have basic scripting skills in Bash, PowerShell, and Python.