

INFORMATION TECHNOLOGY NETWORK AND SYSTEMS DESIGN SPECIALIST (Proposed)

NATURE OF WORK IN THIS CLASS:

This is complex and responsible professional work in information technology (IT) application systems. Employees are responsible for successfully executing varied IT projects, requiring the consensus and approval of project scope, objectives and deliverables from key stakeholders/sponsors.

The employee performs work under the general direction of IT management and is responsible for setting project goals, developing plans, maintaining schedules, budgeting and resource management by employing industry-standard project methodologies and tools to monitor performance, conduct risk assessments and organize meetings to review goals and objectives.

ILLUSTRATIVE EXAMPLES OF WORK: (These examples do not list all the duties which may be assigned; any one position may not include all the duties listed.)

Manages cloud environments (including, but not limited to, components such as account provisioning, networking, security guidelines, identity systems, monitoring, logging and dev/ops pipelines) from service offerings such as Amazon Web Services, Microsoft Azure, Microsoft 365, Google Workspace and Google Cloud Platform.

Manages central identity systems enterprise application offerings.

Manages secure, scalable and compliant cloud architectures.

Manages multi-tenant architectures, ensure proper isolation, cost-efficiency and security for different clients or business units.

Optimizes cloud resources for performance, reliability and cost-efficiency using AWS Well Architected Framework principles.

Manages disaster recovery (DR) and high-availability (HA) strategies to ensure business continuity.

Engages with stakeholders to evaluate and manage software deployment from an IT standpoint, which involves participating in project management.

Coordinates IT resources and schedules to ensure timely project completion and create project documentation to maintain project organization and progress.

Engages with stakeholders, project managers and leads to ensure progression of projects.

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Oversees the installation and termination of various cable types (e.g. fiber optic, twisted-pair, coaxial) within the cable plant.

Establishes procedures for cable labeling, color coding and termination, ensuring easy identification and adherence to documentation standards.

Coordinates with Teleprocessing Network Coordinators for precise routing, splicing and termination of cables in complex or high-density environments.

Implements quality control standards for all cabling work, inspecting installations for adherence to specifications and identifying issues.

Conducts project meetings and communicates project status with customers, project team members, vendors and management.

Serves as a team lead, project manager and technical resource for team members and customers; oversees production releases, assigning tasks, reporting progress and ensuring projects adhere to timelines and budget.

Ensure that all cable plant installations conform to industry standards, such as ANSI/TIA-568, ANSI/TIA-942 and other building codes.

Implements safety protocols to prevent accidents during installation and maintenance.

Collaborates with vendors and contractors to ensure project specifications, timelines and quality standards are met.

Provides updates to the department's IT management and executive-level managers on project status and issues needing quick resolutions.

Perform other related duties as required.

MINIMUM KNOWLEDGE, ABILITIES AND SKILLS:

Knowledge in project management principles, methodologies and tools.

Knowledge of data storage, processing and analysis and how they are used in administrative, research and business endeavors.

Knowledge of AWS security, regulatory compliance frameworks, identity and access management, and cloud networking including SaaS/Cloud and on-premise software implementation.

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Knowledge of network architecture, including VPCs, security groups, NACLs, VPNs, Direct Connect and Transit Gateway.

Knowledge of software development and system authentication principles, including SSO and MFA.

Knowledge of the standard principles, methods, practices, techniques of information technology such as information systems planning, database design, programming and systems implementation.

Knowledge of computer hardware and software systems planning and technical support functions.

Knowledge of enterprise computer networking technologies and telecommunications systems and development.

Knowledge of networking protocols, physical networking principles and application, physical network infrastructure and the components and fiber-optic and copper cable certification tools.

Ability to gather requirements, conduct buy or build analyses, manage project risks and implement software efficiently.

Ability to manage multiple projects.

Ability to influence and interact with stakeholders, external partners, consultants and vendors.

Ability to prioritize, resolve conflicts, facilitate meetings, lead discussion and effectively deliver presentations.

Ability to think critically and strategically.

Ability to work effectively with the public and employees.

Ability to effectively prioritize tasks and execute tasks in a high-pressure environment.

MINIMUM EXPERIENCE AND TRAINING:

- A. Four (4) years of experience in information technology or computer networking work and graduation from a recognized college or university with a Bachelor's degree in Information Technology, Computer Science or related field; **or**

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- B. Any equivalent combination of experience and training beyond the Bachelor's Degree which provides the minimum knowledge, abilities and skills.

NECESSARY SPECIAL QUALIFICATIONS:

Possession of Professional Certification in Information Technology or Computer Science (Network or Cloud certification).

ESTABLISHED: **AUGUST 2025**

PAYGRADE: **Q (GPP)**

FLSA STATUS: **EXEMPT**

HAY EVALUATION:	KNOW-HOW:	E II 2	304
	PROBLEM SOLVING:	E 4 (43%)	132
	ACCOUNTABILITY:	E 2 S	<u>152</u>
	TOTAL POINTS		<u>588</u>

EDWARD M. BIRN, Director
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Governor of Guam