

As an Enterprise Network Architect, you will design and implement the Airports Authority's enterprise network architecture.

### **JOB DESCRIPTION**

- Enterprise Network Architect
- Works under the general supervision of the Deputy Chief Information Officer Enterprise Architecture and Business Innovations.
- Serves in the Enterprise Architecture and Business Innovations Department of the Office of Technology at the Corporate Office Building (COB).

Works on enterprise network architecture design and implementation for Cloud migration, datacenter consolidation, application transformation, network reengineering and convergence, digital solutions, and public safety, radio, and Wi-Fi systems. Performs related functions.

### **GENERAL RESPONSIBILITIES**

- Designs and implements network infrastructure automation and operations packages from concept to operation regarding network topology and supporting system to minimize exposure and risk during all phases of project planning, delivery, and production.
- Supports infrastructure tooling, orchestration, and automation for all customer-facing production datacenter networks.
- Presents signature-ready recommendations for steering projects and policies to achieve outcomes that circumvent business disruptions at the network infrastructure level.
- Ensures network capabilities achieve business objectives and improve network performance and reliability; provides input into long-range networking requirements/operational guidelines.
- Assists in developing and publishing future-state network architecture blueprints, baseline architecture with dependencies, and associated transition architectures. Assists in implementing network migration architecture, policies, and standards. Assists in developing next-generation infrastructure, including specifications, vendor evaluation, data driven proofs of concept, simulate complex networks, cloud migration design, vendor interoperability, pilot deployments, and iterative design.
- Assists in defining, selecting, and delivering data, voice, video, Wi-Fi, and radio network architectures. Formulates/implements standards, implementation guides, and execution oversight.
- Performs quality checkpoint reviews for compliance on assigned projects by reviewing deliverables for quality and completeness and supports projects with design artifacts and optimal migration plan and cloud transformation.
- Assists in developing resilient, multi-site, highly available, and disaster recovery network architectures in carrier class environments. Works to maintain a secure and reliable network.
- Supports enterprise networks with state-of-network technology in virtualization (NFV), software defined networking (SDN), and similar constructs.

- Identifies and analyzes capability-based architecture roadmap, design implementation, code review, network change, change management, and architecture governance to achieve future-state enterprise network architecture and its supporting business applications.
- Executes enterprise architecture framework based on Federal Enterprise Architecture (FEA) and The Open Group Architecture Framework (TOGAF) approaches.
- Performs other duties as assigned.

### **QUALIFICATIONS**

- Seven years of progressively responsible experience in enterprise network architecture design and implementation.
- Four of the seven years of experience must include experience in designing and hands-on implementing for Cloud migration; datacenter consolidation; network reengineering and convergence; and radio, Wi-Fi, and business application systems.

### **KNOWLEDE, SKILLS AND ABILITIES (KSAs)**

1. Knowledge of and skill in establishing future-state, baseline, and effectively-implemented migration architecture associated with network, datacenter infrastructure hardware, application and data.
2. Ability to develop supporting policies, standards, models, and procedures for network architecture.
3. Knowledge of and skill in capability-based architecture roadmap, design implementation, code review, change management, and architecture governance to achieve future-state enterprise network architecture.
4. Ability to make complex analyses of data and information and make recommendations.
5. Ability to speak and write effectively.

### **PREFERRED QUALIFICATIONS**

1. A Master's Degree in Computer Science, Information Technology, Engineering, or Physical Science.
2. IT architecture and implementation experience in an airport environment.

### **EDUCATION**

1. A Bachelor's Degree in Computer Science, Information Technology, Computer Engineering, or related field, or an equivalent combination of education, experience, and training that totals four years.
2. A fully equivalent combination of education and training beyond what is needed to satisfy the education requirement may be used to substitute for up to two of the seven years of experience. For example, a master's degree may substitute for two years of experience.

### **CERTIFICATIONS AND LICENSES REQUIRED**

1. Certification as a TOGAF Architect, Cisco Certified Network Professional (CCNP), Cisco Certified Design Professional (CCDP), Cisco Certified Internetwork Expert (CCIE), Cisco Certified Design Expert (CCDE), or Certified Information Systems Security Professional (CISSP) from Cisco, International Information Systems Security Certification Consortium, or other recognized accredited institution.

**NECESSARY SPECIAL FACTORS**

1. Work is typically reviewed in progress and upon completion for quantity, quality, timeliness, teamwork, customer service, and other factors.
2. Must be able to work standard on-call rotation and varied schedule of days and times outside normal business hours.
3. Is subject to hold over and recall on a 24-hour basis for essential services and emergencies.