

**FLORIDA STATE COLLEGE AT JACKSONVILLE  
JOB DESCRIPTION, 2022**

**CLOUD ARCHITECT**

**FLSA STATUS: EXEMPT - PAY GRADE: 25 - P**

**JOB FAMILY: INFORMATION TECHNOLOGY    JOB FUNCTION: BUSINESS SERVICES**

**GENERAL STATEMENT OF JOB**

The Cloud Architect leads the creation of a technology framework and provides technical leadership in support of FSCJ's initiatives in cloud computing and automation, with a focus on the design of systems and services that run on cloud platforms. Designs, deploys, and migrates systems for IaaS, PaaS, and SaaS environments. Identifies and selects appropriate cloud services based on requirements and constraints, has deep subject matter expertise, and evaluates new technologies for fit in current infrastructure architecture. Ensures that critical applications are designed and optimized for high availability and disaster recovery. Reports to the IT Operations Team and works closely with all teams within the IT Department to provide architectural leadership and best practices.

**CHARACTERISTIC DUTIES AND RESPONSIBILITIES**

Acts as a Subject Matter Expert to the College for and demonstrates knowledge of end-to-end architecture, including Azure Cloud and future providers, networking, provisioning, implementation features (OS, multi-tenancy, virtualization, orchestration, elastic scalability) and management.

Provides technical architectural consulting expertise, direction, and assistance to Functional Analysts, Network/Systems Engineers, and IT Developers, including ownership in the diagnosis and resolution of issues, including the determination and provision of workaround solution or escalation to service owners.

Develops and manages an IT cloud infrastructure capacity plan. Develops, documents, communicates, and enforces a cloud technology standards policy. Ensures that delivered solutions meet/perform to technical and functional/non-functional requirements.

Documents and develops in-depth knowledge of the College's existing IT cloud architecture/infrastructure, and technology portfolio. Maintains overall industry knowledge on latest trends, technology, etc.

Conducts research on emerging cloud technologies in support of infrastructure development efforts, and recommends technologies that will increase cost effectiveness and infrastructure flexibility. Drives scope definition, requirements analysis, functional and technical design, application build, product configuration, unit testing, and production deployment.

Develops and executes test plans to check IT cloud infrastructure and systems technical performance. Reports on findings and make recommendations for improvement. Designs, develops, and oversees implementation of end-to-end IT cloud integrated architecture and evaluates alternatives for private, public and hybrid cloud models, including IaaS, PaaS, and other cloud services.

Supports and maintains backup infrastructure for internal and Cloud environments. Ensures security of backups by testing backups and restore points for validity. Creates and maintains a backup process for all Cloud Hosted Data along with Internally kept data.

Reviews security events logs as they pertain to cloud environments. Works with CISO and Systems engineers to include all systems in the security framework defined by the organization. Creates and maintains security architecture over cloud environments.

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Demonstrates forward thinking around where the College is going and how technology can support these efforts. Develops, documents, makes recommendations, and communicates plans for investing in IT cloud infrastructure, including analysis of cost reduction opportunities.

Works with CIO and IT Leadership to choose solutions that meet the Strategic plan within budget. Maintains in-depth knowledge of company's strategic business plans.

Perform related duties, as required.

### **SUPERVISION RECEIVED**

Supervision is received from a senior level information technology administrator.

### **SUPERVISION EXERCISED**

Serves in a lead capacity as a Subject Matter Expert for Functional Analysts, Network/Systems Engineers, and IT Developers.

### **MINIMUM QUALIFICATIONS**

An eight (8) year combination of education and experience in technical architecture, network management, application development, middleware, database management or operations; implementing and managing Systems in a Cloud environment; and implementing and managing a backup environment for both on premises and cloud.

### **PREFERRED QUALIFICATIONS**

A Bachelor's degree in Information Technology or related discipline from an accredited institution with four (4) years of directly related experience and thorough knowledge of the area of specialty. Certified Cloud Architect.

### **MINIMUM QUALIFICATIONS OR STANDARDS REQUIRED TO PERFORM ESSENTIAL JOB FUNCTIONS**

**Physical Requirements:** Must be physically able to operate a variety of machines and equipment including computer, office equipment, telephone, etc. Physical demands are essentially those of sedentary work. Tasks may require extended periods of time at a keyboard or workstation.

**Data Conception:** Requires the ability to compare and/or judge the readily observable, functional, structural or compositional characteristics (whether similar to or divergent from obvious standards) of documentation, files, accounts, and equipment.

**Interpersonal Communication:** Requires the ability to speak and/or signal people to convey or exchange information. Includes issuing and receiving assignments, instructions, and/or directions.

**Language Ability:** Requires ability to read standard English, as well as basic technical data, policy and procedure manuals, codes, etc. Requires the ability to prepare forms and reports using prescribed formats. Requires the ability to communicate with a broad array of individuals from various professional backgrounds.

**Intelligence:** Requires the ability to apply principles of logical thinking to define problems, collect data, establish facts and draw valid conclusions; to interpret a variety of instructions or inquiries furnished in written and/or oral form; to acquire knowledge of topics related to occupation.

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**Verbal Aptitude:** Requires the ability to record and deliver information, to explain procedures, and to follow oral/written instructions. Must be able to communicate effectively with co-workers, the public, and students.

**Numerical Aptitude:** Must be able to add, subtract, multiply and divide; calculate decimals and percentages.

**Form/Spatial Aptitude:** Requires the ability to inspect items for proper length, width and shape, and visually read various information.

**Motor Coordination:** Requires the ability to coordinate hands and eyes accurately in operating modern office equipment and machinery.

**Manual Dexterity:** Must have minimal levels of eye/hand/foot coordination.

**Color Discrimination:** May not require the ability to differentiate between colors and shades of color.

**Interpersonal Temperament:** Requires the ability to deal with people beyond receiving instructions. Must be adaptable to performing under moderate levels of stress, imposed by frequent deadlines, peak workloads, or public/student contact.

**Physical Communication:** Requires the ability to talk and hear: (talking: expressing or exchanging ideas by means of spoken words; hearing: perceiving nature of sounds by ear).

**Environmental Requirements:** Tasks are regularly performed without exposure to adverse environmental conditions (e.g., dirt, cold, rain, fumes).

**Effective:** 6/16/22