

**CLOUD COMPUTING SPECIALIST
JOB DESCRIPTION**

CLASS SUMMARY

Under **minimum** direction, primarily responsible for all Infrastructure as a Service (IaaS) and Platform as a Service (PaaS) cloud platform resources districtwide. This includes but is not limited to the IaaS/PaaS infrastructure architecture, DevOps application standards, and cloud infrastructure security. Responsible for designing and deploying cloud and on-premise resources securely to support institutional operations. Serves as a liaison between the application development and network infrastructure teams to establish standards during resource migration, development and operations on all IaaS and PaaS cloud platforms. Assumes and performs related duties and responsibilities as required.

REPRESENTATIVE DUTIES

Designs, develops and implements cloud-based solutions using private and public cloud platforms; provisions, operates and manages distributed applications and infrastructure resources using IaaS and PaaS cloud platforms along with on premise infrastructure; implements and manages delivery systems, provisions security controls, administers governance and compliance validation; defines and deploys monitoring utilities, tracks performance metrics and logging systems; provides ongoing maintenance of operational systems; develops Infrastructure as Code scripts for infrastructure design and security, configuration management, continuous integration, continuous deployment as well as performance monitoring and tuning; incorporates automation of infrastructure through the use of cloud orchestration software, containerization, cluster management technologies and high level use of object-oriented programming languages; works with other technical professionals to develop standards and implement best practices as it relates to on-premise, public and private IaaS and PaaS cloud platforms; responsible for high availability, business continuity, costing, deployment management, network design, data storage, security, scalability, elasticity, migration, and hybrid architecture for all cloud platforms.

ORGANIZATIONAL RELATIONSHIPS

This position reports to the designated manager Information Technology Services supervisor or administrator.

MINIMUM QUALIFICATIONS

Training and Experience

Bachelor's degree in Information Technology, Computer Science, Business Administration, or a related field and four years of progressively responsible experience in cloud infrastructure administration, development, and/or programming responsibilities. Experience may be substituted for education.

**CLOUD COMPUTING SPECIALIST
JOB DESCRIPTION – CONTINUED**

DESIRABLE QUALIFICATIONS

Knowledge and Abilities

Thorough understanding of current and emerging IaaS and PaaS cloud technologies, DevOps engineering and Continuous Integration/Continuous Delivery framework. Knowledge of multi-tier application architectures: load balancers, caching, web servers, application servers, databases, and networking. Working knowledge of one or more high-level object-oriented programming languages; modern server and desktop operating system administration; modern scripting languages. Understanding of deployment techniques and tools in a distributed environment; topics such as high availability and business continuity, costing, deployment management, network design, data storage, security, scalability, elasticity, cloud migration, and hybrid architecture; Software as a Service (SaaS), security, network design and development and/or programming; information security regulations such as FERPA, HIPPA and PCI. Industry standard certifications on Cloud technologies, modern server operating systems or computer networking are highly desirable.

Ability to: provide leadership and technical guidance to the district on architectural best practices throughout IaaS and PaaS cloud platform projects; identify and gather requirements, plan, lead, coordinate and conduct major projects or phases of projects; apply independent technical judgment to complex technical situations; coordinate schedules and resources with systems and network technicians, end users, enterprise applications and other technical services staff; diagnose and quickly respond to and resolve security issues and understand reasons for systems failures; maintain current knowledge of technological advances in the IaaS and PaaS cloud computing and related fields. Capability to maintain records, prepare reports, prioritize and schedule work; analyze situations accurately and adopt an effective course of action; work independently with little direction and support the district's efforts in securing information or electronic assets and enforcing directives as mandated by regulations and state and federal law. Demonstrated sensitivity to, and understanding of, the diverse academic, social, economic, cultural, disability, and ethnic backgrounds of community college students and staff. Ability to establish and maintain effective and cooperative working relationships with members of the user community and Information Technology personnel while exhibiting tact, patience, and diplomacy. Exhibit proficiency in clear and concise verbal and written communication.

Physical Requirements: This position requires the ability to use computer workstations throughout the workday.

Board Approved: December 13, 2021