

Job Class Code: 1305	FLSA Status: Exempt
Pay Basis: Salary (Annual)	EEO Category: 2

GENERAL DESCRIPTION

The purpose of the job classification (class) is to maintain the team's development lab machines and infrastructure and ensure the engineering and Quality Assurance (QA) environments are running smoothly. The class will work closely with developers, QA engineers, and information technology personnel in all phases of the infrastructure lifecycle. The class works within broad policy and organizational guidelines; independently plans and implements projects; reports progress of major activities through periodic conferences and meetings. The class assists with server builds, configurations, software installations, troubleshooting, and server maintenance.

TYPICAL TASKS

- As part of a cross-functional team, manages the evaluation and implementation of new products and technologies which typically cover a broad variety of enterprise-class infrastructure disciplines.
- Designs and develops features and scripts for deploying automated build, test, and deployment systems to be integrated into an automated build pipeline.
- Analyzes system requirements, including identifying interactions and appropriate interfaces between affected components and sub systems.
- Proactively plans capacity of platforms and applications.
- Participates in software system testing and validation procedures, programming and documentation.
- Administering virtual environments (installing servers, configure datacenters, clusters, datastores, etc.).
- Documenting system processes and workflow to provide technical support for all aspects of the infrastructure and helping developers in debugging, troubleshooting, and optimizing online software components and tools.
- Develops and coordinates lifecycle development processes and tools to facilitate agile development methodologies.
- Provides high quality support of the infrastructure and liaise with the other 3rd level support teams regarding networking, server, and storage issues.
- Builds and manages infrastructure for the processing of big data.
- Monitors system health and security.
- Participates in application design sessions and creates system design documents. Creates reusable operations and changing program requirements. Makes recommendations directly related to improving the development environment.
- Oversees or performs routine administrative functions such as maintaining hardware and software inventories or other records, assisting with budgets, monitoring materials and expenditures, conducting studies, preparing reports, and other related tasks.
- Provides system administration and security; controls user access to systems.
- Manages the operation of the application development environment consisting of operating systems, virtualization strategies, application deployment, and source code management.
- Assists in the configuration of virtualized server environments and installation and configuration of applications development environment for technologies.
- Attends or conducts staff meetings to exchange information; attends in-service training and technical or professional classes, seminars, or conferences to improve technical and professional skills; researches and maintains knowledge in emerging technologies and their possible application to the business; serves on committees and boards engaged in computer information systems activities.
- Performs other related duties as assigned.

GENERAL STANDARDS	
Data Involvement	Plans, or directs others in the sequence of major activities and reports on operations and activities which are very broad in scope.
Interpersonal/People Involvement	Counsels others and makes recommendations based on technical expertise
Reasoning Requirements	Performs work involving the application of principles of logical thinking and administrative, professional, and information system practices to diagnose or define problems, collect data and solve abstract problems with widespread unit or organizational impact.
Mathematical Requirements	Uses mathematics involving the practical application of fractions, percentages, ratios and proportions, algebraic solutions of equations and inequalities, descriptive and inferential statistics, and mathematical classifications or schemes.
Language Requirements	Reads professional literature and technical manuals; speaks to groups of coworkers, staff in other organizational agencies, the general public, and people in other organizations; composes manuals and complex reports.
Mental Requirements	Performs professional level work requiring the application of scientific, engineering, legal, or managerial methods in the solution of technical, administrative, or legal problems; applies extensive understanding of operating policies and procedures to solve complex problems; requires continuous, close attention for accurate results and frequent exposure to unusual pressures.
Decisions/Supervisory Control	Guides others, making frequent decisions affecting the individual, clients, coworkers, and others that depend on the service or product.

KNOWLEDGE, SKILLS, AND ABILITIES	
Knowledge	Solid understanding of software development utilizing job scheduling software, report archiving tools to fit retention requirements and maintains security across platforms. Knowledge of web infrastructure related to security, scalability and performance. Knowledge of TCP/IP, DNS, and SQL. Solid networking background and experience with network troubleshooting.
Skills	System administration experience in both Windows and Linux/UNIX environments (Windows 2008/2012, RedHat Linux) and software development technologies. Experience in network administration such as configuring routers, switches, VLANs, etc.) Experience with Source Control Management systems desirable. Familiar with high-availability concepts, agile development methodology and Scrum Iteration process. Experience in designing/managing highly available systems, distributed systems, and clustering.
Abilities	Ability to take a proactive approach to identifying and alleviating capacity planning issues and bottlenecks. Ability to forecast resource requirements. Ability to establish, influence, and maintain working relationships with others through comprehensive communication and diplomacy skills. Ability to write Unix Shell scripts, Perl Scripts, Ruby, etc

EDUCATION, EXPERIENCE AND SPECIAL REQUIREMENTS	
Vocational/Educational Requirement	Requires any combination of education and experience equivalent to a bachelor's degree in computer science.
Experience	In addition to satisfying the vocational/education standards, this class requires a minimum of two years of full-time equivalent experience.
Special Certifications and Licenses	Requires a valid driver's license and a driving record that is in compliance with City Driving Standards. A+ and Network+ certification preferred.
Special Requirements	Employees may be expected to work hours in excess of their normally scheduled hours in response to short-term department needs and/or City-wide emergencies. Emergency operations support work and work locations may be outside of normal job duties.

AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS	
The City of Chesapeake is an Equal Opportunity Employer. ADA requires the City to provide reasonable accommodations to qualified individuals with disabilities. Prospective and current employees are invited to discuss accommodations.	

City of Chesapeake

Class Title: DevOps Engineer

This is a class specification and not an individualized position description. A class specification defines the general character and scope of duties and responsibilities of all positions in a job classification, but it is not intended to describe and does not necessarily list the essential functions for a given position in a classification.

Revised 07/21/2020