



Enterprise Software Engineer

Class Code	FLSA Status	EEO Category	Represented Status	Salary Grade	Effective Date	Resolution #	Pages
026	Exempt	2 - Professional	AFSCME	11	10-27-10	10-046	1 of 2

DEFINITION: Under general supervision; designs and oversees implementation of software solutions based on the District's business requirements and technical strategy; and continuously evaluates new software technologies, industry trends, and best practices to optimize the District's systems design and development process.

REPORTS TO: The Director of Information Services & Technology, or designee

REPRESENTATIVE FUNCTIONS may include, but are not limited to :

- Provides high level design and operational knowledge of enterprise applications and their underlying databases.
- Collaborates with the Director of Information Services and Technology to establish mid- and long-term vision and direction to software development and applications. Provides expertise to the preparation of the Information Systems technical roadmap.
- Optimizes operational performance, efficiency, and integrity of applications and databases; and analyzes performance data and operating conditions to troubleshoot and correct current problems and minimize future problems.
- Develops performance standards, processes, and procedures to be applied uniformly throughout the department to optimize the operation and stability of enterprise applications and databases.
- Creates, initiates, and monitors written procedures and contingencies for planned software changes, outage, and other events.
- Initiates, reviews, and insures adherence to systems integrity and security policies and procedures; and validates appropriate application access privilege standards and changes.
- Develops standards for database back-up; and oversees the implementation for all production applications.
- Confers with Database Administrators to develop standards for application access to databases; and oversees the implementation of database interfaces that emphasize security and performance.
- Provides work direction, supervision, and mentoring from the technical, operational, and systems perspectives to Sr. Application Analysts, Database Administrators, and other assigned staff.
- Confers with Network-Server Engineers and department managers to identify department and user needs; and works with consultants and vendors regarding applications implementation and upgrades.
- Plans and coordinates change activities with applications developers, telecommunications specialists, facilities managers, vendors, and staff. Manages implementation and deployment; and keeps senior management informed of project progress through periodic briefings and reports.
- Estimates time and resources required for software development projects; develops budgets and project schedules; and writes periodic progress reports and briefings.



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- May prepare service request forms.
- Performs related duties as required.

MINIMUM QUALIFICATIONS:

Knowledge Of: Software and database architecture and security; software development frameworks, Object-Oriented Analysis and Design (OOA-OOD); graphical user interface design and usability; principles and practices of software engineering in an *n*-tier client-server architecture; object-oriented programming; Microsoft SQL Server, TSQL; Microsoft ASP.Net MVC, C#; HTML, CSS, DOM and Javascript; Java and J2EE; Microsoft Team Foundation Server (TFS); Extreme Programming (XP) or Agile software development; principles, methodology, and applications of relational database theory; database performance tuning and reporting; fundamentals of project management; formal change management procedures; basic mathematics and algebra; and modern office methods and procedures.

Ability To: Provide experience and technical knowledge to form a bridge between management vision/direction and software solutions; design and develop *n*-tier client-server applications using a variety of languages and frameworks, both native Windows and web-based; design and implement testing routines to reduce downtime; troubleshoot and resolve problems with applications; lead and mentor software engineering and database administration staff; provide motivation and work direction aimed at maximizing enterprise application efficiency and up-time; review and analyze user requirements; write documentation and user information and training materials; research and make recommendations regarding implementation of new software technologies; prepare estimates of time and resources needed; use discretion and independent judgment; keep abreast of current developments in the field; communicate effectively both orally and in writing; and establish and maintain effective working relations with those encountered in the course of work using principles of excellent customer service.

Education/Certification: Equivalent to either a Bachelor's degree in Computer Science, Software Engineering, or a related field; OR at least five (5) years in a Senior Software Engineer capacity. Certification as a Microsoft Certified Solution Developer (MCSD) or Microsoft Certified Professional Developer (MCPD) is highly desirable.

Experience: Ten (10) years of recent and verifiable experience designing and developing client-server software, five (5) years of which must include a senior role in the design and development of applications in a Windows Server environment.

License Requirement: (1) Must possess or obtain, and maintain a valid Class C California Driver License, and meet the District's driving standards.

Special Requirement: Must be willing to: (1) work outside regular business hours as required by implementation of special projects, and emergencies; and (2) travel between the various District facilities as required.

Physical Requirements: Must maintain the physical condition necessary to: (1) perform tasks in an office setting operating a personal computer, keyboards, and other peripheral equipment; (2) possess physical mobility in order to travel to other locations within the AC Transit District.