

POSITION DUTY STATEMENT

DOT PM-0924 (REV 01/2025)

CLASSIFICATION TITLE Information Technology Specialist I	OFFICE/BRANCH/SECTION IT/Infrastructure Management Division/ SIIM/ SHU	
WORKING TITLE Senior System Administrator	POSITION NUMBER 900-170-1402-086	REVISION DATE 03/14/2025

As a valued member of the Caltrans team, you make it possible to improve lives and communities through transportation.

GENERAL STATEMENT:

Under the direction of an IT Supervisor II, the incumbent serves as a Senior Systems Administrator supporting Caltrans Enterprise Server Hosting Unit. The incumbent is based in the Sacramento Headquarters office and provides statewide support, leadership and expertise for Caltrans business units.

MAJOR FUNCTIONS:

The incumbent works collaboratively with management and staff to provide subject matter expertise to IT Staff and Program personnel in all aspects of design, architecture, and implementation of Caltrans Enterprise Virtual Infrastructure. The incumbent shall display a thorough and comprehensive knowledge of System Administration practices and collaborate with a team that is responsible for the successful operation of this Virtual Infrastructure, which consists of VMware virtualization and HPE Blade Servers. Incumbent will be responsible for administering VMware, operating system upgrades, patches, management of externally connected storage, and provides expertise in solving server-related issues that may involve said hardware, software, or firmware problems. The incumbent will have thorough knowledge of overlying technologies which includes but not limited to; Active Directory, SAN/FLASH Storage, Backup, Linux and Windows Server Operating Systems. The incumbent will assist Server and Storage Management section team members in analyzing new technologies, proposing solutions, and leading projects to implement them. Performs research on existing and emerging technologies and assesses conformance with Caltrans' current and future state architectures and the State IT strategic direction. The incumbent performs highly complex activities of the System Development Life-Cycle which includes systems analysis, design, build, test, maintenance and operations. Additionally, the incumbent provides support for all phases of end user device life-cycle management including procurement, deployment, installation, configuration, maintenance and operations, and surplus. The incumbent provides training to staff in the configuration and use of infrastructure technologies. The incumbent collaborates with peers and management to update and recommend standards, processes, procedures, and technology practices. The incumbent tracks, monitors, and audits IT assets to maintain accountability using standard asset management tools and techniques in compliance with the State Administrative Manual and other applicable policies and regulations. The incumbent also performs functions including, but are not limited to, researching, writing, reporting, and presenting.

Domains:

System Engineering
Client Services

CORE COMPETENCIES:

As an Information Technology Specialist I, the incumbent is expected to become proficient in the following competencies as described below in order to successfully perform the essential functions of the job, while adhering to and promoting the Department's Mission, Vision, Values, Strategic Imperatives and Goals. Effective development of the identified Core Competencies fosters the advancement of the following Leadership Competencies: Change Commitment, Risk Appetite, Self-Development/Growth, Conflict Management, Relationship Building, Organizational Awareness, Communication, Strategic Perspective, and Results Driven.

- **Learning on the Fly:** Learns quickly, is open to change, experiments, and is flexible. (Employee Excellence - Equity, Integrity, Pride)
- **Dealing with Ambiguity (Risk):** Can comfortably handle risk and uncertainty, as well as make decisions to act without having the total picture. (Employee Excellence - Equity, Integrity)
- **Reliability:** Ability to demonstrate dependability in meeting commitments, and providing a consistent work product. Takes responsibility for individual actions in order to meet deadline demands. (Employee Excellence - Equity, Integrity)
- **Problem-solving and Decision-making :** Identifies problems and uses logical analysis to find information, understand causes, and evaluate and select or recommend best possible courses of action. (Employee Excellence - Equity, Integrity)
- **Relationship Building:** The ability to develop and maintain internal and external trust and professional relationships, which includes listening and understanding to build rapport. (Employee Excellence - Innovation, Pride)
- **Organizational Awareness:** Contributes to the organization by understanding and aligning actions with the organization's strategic plan, including the mission, vision, goals, core functions, and values. (Employee Excellence - Equity, Integrity)

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- **Interpersonal Effectiveness** : Effectively and appropriately interacts and communicates with others to build positive, constructive, professional relationships. Tailors communication style based on the audience. Provides and is receptive to feedback. (Employee Excellence - Equity, Integrity)
- **Analytical Skills**: Approaches problems using a logical, systematic, and sequential approach. Weighs priorities and recognizes underlying issues. (Employee Excellence - Integrity)
- **Thoroughness**: Ensures that work and information is complete and accurate. Ensures that assignment goals, objectives, and completion dates are met. Documents and reports on work progress. (Employee Excellence - Innovation, Pride)

TYPICAL DUTIES:

Percentage	Essential (E)/Marginal (M) ¹	Job Description
30%	E	Systems Maintenance and Operations The incumbent leads one or more teams in performing health checks on systems, monitoring systems for proper operations; performing systems upgrade, managing and re-mediating security vulnerabilities and threats; troubleshooting and resolving very complex system anomalies; developing, maintaining and following established technology practices, processes and procedures for incident management, Monthly Scheduled Maintenance; developing and maintaining Systems Maintenance Manuals.
25%	E	Systems Analysis The incumbent leads one or more teams and/or projects; organizes, plans, documents and analyzes business and technical requirements; develops System Requirements Specifications; analyzes, troubleshoots, resolves and reports systems anomalies; performs research, evaluates products and makes recommendation for adoption; produces specifications and build of materials for purchase requisitions.
20%	E	Systems Build The incumbent leads one or more teams in performing systems installation and configuration systems/ applications in various compute environments including development, test, staging and production; developing, maintaining and following established technology practices, processes and procedures for configuration management, change management and release management.
10%	E	Systems Test The incumbent leads one or more teams in organizing, planning and developing test use cases and System Test Specifications; collaborates with stakeholders on systems test activities including planning, testing, reporting and correcting problems found during the test phase of the system development life cycle; develops, maintains and follows established technology practices, processes and procedures for unit testing, system testing, performance testing, etc.
10%	E	Systems Design The incumbent leads one or more teams in systems design activities associated with solution architecture and infrastructure for business and technical problems, performs system modeling and prototyping to provide effective design solutions, develops System Design Specifications to meet business and technical requirements.
5%	M	The incumbent will perform other duties in the specified domain(s) as needed.

¹ESSENTIAL FUNCTIONS are the core duties of the position that cannot be reassigned.

MARGINAL FUNCTIONS are the minor tasks of the position that can be assigned to others.

SUPERVISION OR GUIDANCE EXERCISED OVER OTHERS

The incumbent has no direct supervisory responsibilities. However, this position may require the incumbent to lead small to midsize teams to achieve common goals and objectives.

KNOWLEDGE, ABILITIES, AND ANALYTICAL REQUIREMENTS

Knowledge of: Information technology governance principles and guidelines to support decision making; complex and mission critical business processes and systems; principles, methods and procedures for designing, developing, optimizing, and integrating systems in accordance with best practices; system specifications design, documentation, and implementation methodologies and techniques.

Ability to: Formulate and recommend policies and procedures; perform effectively in a fast-paced environment with constantly changing priorities; establish and maintain project priorities; apply federal, state, department, and organizational policies and procedures to state information technology operations; apply systems life cycle management concepts used to plan, develop,

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implement, operate, and maintain information systems; positively influence others to achieve results that are in the best interests of the organization; consider the business implications of the technology to the current and future business environment communicate change impacts and change activities through various methods; conduct end-user training; collaborate closely with technical subject matter experts such as database administrators, network engineers, and server administrators to ensure systems are secure and meet compliance requirements; assess situation to determine the importance, urgency, and risks to the project and the organization; make decisions which are timely and in the best interests of the organization; provide quality and timely ad hoc project information to executives, project team members, and stakeholders; develop decision making documents; and assess and understand complex business processes and customer requirements to ensure new technologies, architectures, and security products will meet their needs.

RESPONSIBILITY FOR DECISIONS AND CONSEQUENCES OF ERROR

The incumbent must exercise good judgment, analyze problems, and take appropriate action. Poor decisions or recommendations could result in significant losses of departmental efficiencies through unnecessary delays, loss of data, equipment damage, loss of employee productivity, and user dissatisfaction.

PUBLIC AND INTERNAL CONTACTS

The incumbent will have frequent contacts with managers and staff in Caltrans, IT managers throughout the state, private consultants, and vendor representatives concerning the needs and development of IT systems. The incumbent may initiate contacts with other departments, governmental agencies, or private companies concerning IT technology related to the performance of this position.

PHYSICAL, MENTAL, AND EMOTIONAL REQUIREMENTS

The incumbent may be required to sit for long periods of time using a keyboard, video display terminal and telephone and may be required to lift and move supplies and equipment from one location to another. The incumbent must be able to walk between multiple State buildings and have a thorough knowledge of Caltrans building locations. This is a fast-paced job with a lot of deadlines. Thus, the incumbent in this position will be required to multi-task, be open to change, adapt to changes in priorities and policies, and to complete tasks or projects with short notice. The incumbent must be able to sustain mental activity needed for problem solving which includes reading, writing, analyzing, understanding, interpreting, consulting, developing alternatives, drawing sound conclusions, and recommending, implementing and evaluating solutions. The incumbent must be able to exercise sufficient control over emotions to gain and maintain the confidence and respect of others, recognizing and acknowledging emotionally charged issues or problems and responding appropriately to them.

WORK ENVIRONMENT

This position may be eligible for telework. The amount of telework is at the discretion of the Department and based on Caltrans's evolving telework policy. Caltrans supports telework, recognizing that in-person attendance may be required based on operational needs. Employees are expected to be able to report to their worksites with minimum notification if an urgent need arises. The selected candidate will be required to commute to the headquartered location as needed to meet operational needs. Business travel may be required, and reimbursement considers an employee's designated headquartered location, primary residence, and may be subject to CalHR regulations or applicable bargaining unit contract provisions. All commute expenses to the headquartered location will be the responsibility of the selected candidate.

If not working remotely, the employee will work in a climate-controlled office under artificial lighting using a personal computer. The employee may be required to work for extended periods of time in a computer room that maintains an approximate temperature of 70 degrees.

The employee may be required to travel. When available, a State vehicle will be provided. Possession of a valid driver's license is required when operating a State owned or leased vehicle. If the employee utilizes their own personal vehicle, they may be reimbursed for travel expenses.

Some weekend or after-hours may be required. The employee must carry a cell phone and respond to calls after hours.

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I have read, understand and can perform the duties listed above. (If you believe you may require reasonable accommodation, please discuss this with your hiring supervisor. If you are unsure whether you require reasonable accommodation, inform the hiring supervisor who will discuss your concerns with the Reasonable Accommodation Coordinator.)

I agree that by providing my electronic signature for this form, I agree to conduct business transactions by electronic means and that my electronic signature is the legal binding equivalent to my handwritten signature. I hereby agree that my electronic signature represents my execution or authentication of this form, and my intent to be bound by it.

EMPLOYEE (Print)

EMPLOYEE (Signature)

DATE

I have discussed the duties with, and provided a copy of this duty statement to the employee named above.

SUPERVISOR (Print)

SUPERVISOR (Signature)

DATE

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