

POSITION DUTY STATEMENT

DOT PM-0924 (REV 01/2025)

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|---|---|-----------------------------|
| CLASSIFICATION TITLE Transportation Engineer (Civil) | OFFICE/BRANCH/SECTION Traffic Operations/Mobility & System Performance/TSIP Branch | |
| WORKING TITLE TSIP Support | POSITION NUMBER 913-350-3135-158 | REVISION DATE 05/15/2026 |

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 the Branch Chief of Mobility & System Performance, a Senior Transportation Engineer (Supervisor), the incumbent, a Transportation Engineer (Civil) serves as the Transportation System Improvement Program (TSIP) support in the TSIP Branch.

The incumbent provides statewide leadership, technical analysis, and program coordination for the TSIP. The position evaluates and guides Operational Improvement (OI) projects, develops TSIP guidelines and State Highway System Management Plan (SHSMP) guidelines for the OI program, and collaborates with districts and headquarters programs to ensure consistent project assessment, performance evaluation, and achievement of statewide operational goals. The incumbent serves as a statewide multi-modal transportation analysis expert specializing in transportation modeling, data collection, and analysis methodologies. The incumbent also supports program reporting, training, communication, and special assignments essential to the effective delivery of the TSIP.

CORE COMPETENCIES:

As a Transportation Engineer (Civil), 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.

- **Managing Change:** Demonstrating support for organizational changes needed to improve the department's effectiveness; supporting, initiating, sponsoring and implementing change. (Safety, Equity, Climate Action, Prosperity, Employee Excellence - Collaboration, Equity, Innovation, Integrity, People First, Pride, Stewardship)
- **Decision Making:** Makes critical and timely decisions. Takes charge. Supports appropriate risk. Makes challenging and appropriate decisions. (Safety, Equity, Climate Action, Prosperity, Employee Excellence - Collaboration, Equity, Innovation, Integrity, People First, Pride, Stewardship)
- **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. (Safety, Equity, Climate Action, Prosperity, Employee Excellence - Collaboration, Equity, Innovation, Integrity, People First, Pride, Stewardship)
- **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. (Safety, Equity, Climate Action, Prosperity, Employee Excellence - Collaboration, Equity, Innovation, Integrity, People First, Pride, Stewardship)
- **Teamwork and Collaboration:** Sets team structure. Organizes, leads, and facilitates team activities. Promotes team cooperation and encourages participation. Capable of cross functionality and working well with others on a team to achieve personal goals, team goals, and organizational goals. Takes responsibility for individual actions in order to achieve consistent results. (Safety, Equity, Climate Action, Prosperity, Employee Excellence - Collaboration, Equity, Innovation, Integrity, People First, Pride, Stewardship)
- **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. (Safety, Equity, Climate Action, Prosperity, Employee Excellence - Collaboration, Equity, Innovation, Integrity, People First, Pride, Stewardship)
- **Communication:** Expresses oneself clearly in all forms of communication. Gives feedback and is receptive to feedback received. Knows that listening is essential. Keeps others in the Division and other functional units informed as appropriate. (Safety, Equity, Climate Action, Prosperity, Employee Excellence - Collaboration, Equity, Innovation, Integrity, People First, Pride, Stewardship)
- **Analytical Skills:** Approaches problems using a logical, systematic, and sequential approach. Weighs priorities and recognizes underlying issues. (Safety, Equity, Climate Action, Prosperity, Employee Excellence - Collaboration, Equity, Innovation, Integrity, People First, Pride, Stewardship)
- **Technical Expertise:** Depth of knowledge and skill in a technical area. (Safety, Equity, Climate Action, Prosperity, Employee Excellence - Collaboration, Equity, Innovation, Integrity, People First, Pride, Stewardship)

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TYPICAL DUTIES:

| Percentage | Essential (E)/Marginal (M) ¹ | Job Description |
|------------|---|---|
| 30% | E | This position supports the development of the OI component of the biannual SHSMP. The incumbent will provide guidance to districts on the preparation, evaluation, update, and reporting of the SHSMP biannually updated plan for the TSIP branch. The position collaborates with district counterparts and the headquarters Asset Management Program (AMP) to implement SHSMP - related policies and develop innovative project alternatives, performance measures, performance forecasts, and unit costs. The incumbent ensures that all projects are consistently assessed and that intended performance targets are achieved throughout the ten-year plan cycle. This position leads the statewide needs assessment process, conducting in-house statewide SHSMP training as needed, and supporting the project change request process. |
| 30% | E | The incumbent serves as a transportation analysis engineer responsible for analyzing, reviewing, and evaluating highway OI projects submitted by the districts to ensure that proposed projects address identified operational performance needs by maintaining up-to-date knowledge of modern technologies in the Highway Capacity Manual (HCM), Highway Design Manual (HDM), California Manual on Uniform Traffic Control Devices (MUTCD), and Division of Traffic Operations Policy Directives. The incumbent utilizes advanced simulation packages such as Highway Capacity Software (HCS), Synchro/SimTraffic, Sidra, and Rodel to validate these projects, and leverages the Performance Measurement System (PeMS) and third-party traffic data to perform complex transportation analyses for making recommendations for performance measures of OI projects. |
| 20% | E | The incumbent supports the development of statewide transportation analysis policies, guidelines, and procedures for OI projects and additionally provides support for tasks related to Local Development Review (LDR), implementation of SB 743, Vehicle Miles Traveled (VMT) analysis, Intersection Safety and Operation Assessment Program (ISOAP), and Transportation System Management and Operation (TSMO). This position leads to statewide meetings as needed based on workflow in the TSIP branch (monthly or quarterly) to resolve technical analysis, provide review and comments focused on traffic operations, and deliver technical training on OI project analysis to districts as needed. The incumbent supports statewide modeling software licensing, addresses technical training deficiencies, and coordinates across the Divisions of Transportation Planning, Safety Programs, and other relevant Divisions as requested. The incumbent also approves products and services and ensures contractors provide products/ services that are compliant with contract specifications and scope of work. Ensures compliance with contract provisions, monitors contract progress per project schedule, monitors expenditures, authorizes payments, and works with program administrative staff to close out contracts. |
| 15% | E | The incumbent leads the statewide Mobility Performance Report (MPR) process by coordinating with district MPR teams, reviewing and refining district submissions, and ensuring the timely review, remediation, and publication of annual or quarterly MPRs. The position updates statewide bottleneck mapping every quarter following MPR publication and uses the PeMS to prepare various traffic reports, including responses to public and media inquiries. The incumbent also reviews backlogs and associated tasks for district-initiated Traffic Operational Investigations, creates Traffic Investigation Request (TIR) entries in the Traffic Investigation Report Tracking System (TIRTS) / Transportation Safety and Mobility Information System (TSMIS) for Traffic Operation investigations, and identifies and resolves issues related to district investigations. |
| 5% | M | Completes a variety of special projects and assignments as needed by the Division Chief, Deputy Division Chief, Office Chief, and Branch Chief. Performs other work commensurate with the Transportation Engineer (Civil) classification. |

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

None. May act in a lead capacity on special projects.

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KNOWLEDGE, ABILITIES, AND ANALYTICAL REQUIREMENTS

Requires knowledge of: Basic principles of physics, chemistry, and mathematics as applied to civil engineering; engineering surveying; hydrology and hydraulics; stress analysis; mechanics; strength of materials; properties and uses of engineering construction materials; methods and equipment of engineering construction; engineering economics.

Requires the ability to: Do simple mapping and drafting and make neat and accurate computations and engineering notes; select and/or use computer-based processes to compile engineering data; develop or assist in the development or maintenance of transportation-related state-of-the-art computer programs and procedures; prepare reports; review or assist in reviewing project proposals, plans, and specifications prepared by others; perform transportation operational, traffic operations, planning, and/or maintenance engineering tasks; prepare and present information to the public about all types of transportation engineering matters; test for and prepares assessment reports of transportation surveys, investigations and analysis statements, environmental, and/or air and water quality reports; and assist a registered engineer in performing professional engineering work. As a technical subject matter expert, may lead other engineering and technical personnel.

Requires the ability to collaborate with multi-disciplinary, technical staff; communicate effectively (both orally and in writing) with multiple audiences; establish and maintain cooperative relationships with individuals and organizations contacted in the course of work; participate in public contact and represent Caltrans; serve in a consulting capacity to other divisions and districts; and respond appropriately to difficult situations.

Must be able to apply sound judgment in problem solving; work productively in a busy and often changing environment; perform multiple tasks simultaneously; maintain a project schedule; accurately and timely follow-up on issues; and effectively interact with many levels of people in a cooperative manner. Must be decisive, take appropriate actions, and complete tasks or projects with a short notice. Requires proficiency with Microsoft (MS) Office programs (including MS Word, MS Excel, MS PowerPoint, MS Outlook, MS Teams), Adobe Acrobat, Cisco WebEx, and using the Internet.

RESPONSIBILITY FOR DECISIONS AND CONSEQUENCES OF ERROR

This position is responsible for making independent action and taking initiative to carry out assigned duties. The incumbent's decisions and actions have a direct impact on the Traffic Operations Program and the Department. Inability to carry out this position's responsibilities could result in: adversely affecting public safety and/or result in tort liability for Caltrans; increased expenses resulting from lost Transportation System productivity; litigation that could delay and/or add substantial cost to essential projects or activities; inability to quantify performance in meeting the Department's strategic goals and safety and mobility commitments; loss of credibility and public confidence in Caltrans as a responsible public agency.

PUBLIC AND INTERNAL CONTACTS

The incumbent must maintain the highest level of professionalism and integrity, exhibit tact and diplomacy, and effectively communicate with all internal/external contacts.

Internal contacts include various Caltrans districts and divisions (including Design, Construction, Maintenance, External Affairs, and Engineering Services). External contacts include the Legislature, Governor's Office, CHP, FHWA, construction industry representatives, local agencies, other states, national experts, academia, the private sector, and the general public.

The incumbent must communicate effectively orally and in writing, by telephone, via email, and by web conferencing. The incumbent is also required to facilitate, participate in, and host meetings.

PHYSICAL, MENTAL, AND EMOTIONAL REQUIREMENTS

The incumbent must: quickly adapt behavior and work methods in response to new information/priorities and unexpected obstacles; multi-task; effectively interact with many levels of people in a cooperative manner; be decisive; take appropriate actions; and complete tasks or projects with a short notice. Must be able to maintain focus and intensity, yet remain optimistic and persistent, even under adversity. The incumbent shall act in a fair and ethical manner toward others; value cultural diversity and other individual differences in the workforce; and demonstrate a sense of responsibility and commitment to public services. The incumbent must be able to develop new insights into situations and apply innovative solutions to make organizational improvements; grasp the essence of new information and master new technical and business knowledge, particularly in the area of outreach; and facilitate and maintain a work environment that encourages creative thinking and innovation.

Must have the ability to work with a computer and have manual dexterity. Required to sit for long periods of time using a computer, monitors, phone, and other office equipment. The incumbent must be able to occasionally lift up to 25 pounds without assistance. Bending, stooping, and pulling may be required within the normal course of performing some of the responsibilities associated with this position. May be required to speak in front of large groups.

WORK ENVIRONMENT

This position's headquartered location is Sacramento, CA. While at the base of operation, the incumbent works in a climate-controlled office under natural and artificial lighting. Due to periodic issues with heating and air conditioning, building

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temperatures may fluctuate. Multi-floor buildings are equipped with elevators and stairs.

The incumbent may be required to travel periodically to other office buildings (federal and state offices, district offices, local agencies, etc.) and indoor/outdoor field locations. While at field locations, the incumbent may be exposed to uneven surfaces, noise, and varying climate conditions. The incumbent may be required to travel within the state and may be required to travel out-of-state for business operations. Possession of a valid driver's license is required to operate a State owned, leased, and/or personal vehicle. The environment is fast-paced, demanding, and busy; and requires considerable flexibility in managing time, priorities and assignments. Vacations may be restricted during peak times.

This position may be eligible for telework. The amount of telework is at the discretion of the Department and based on Caltrans' 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.

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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