
Position Details**Classification:**

Transportation Engineer (Civil)

Office:

Construction

Working Title:

Construction Quality Engineer

Location:

Selma

Position Number:

311-635-3135-004

HR Approval Date/Initials:

9/21/26 SA

CBID/Bargaining

Unit: R09

Work Week

Group: 2

Tenure:

Permanent

Time Base:

Full-Time

Job Description Summary

Under the direction of the California High-Speed Rail Authority's (Authority) Supervising Transportation Engineer, the Transportation Engineer (Civil) performs a wide variety of professional engineering work primarily in a field setting. The incumbent is responsible for overseeing and inspecting portions of the design and construction, such as bridges, retaining walls, Mechanically Stabilized Earth (MSE) walls, and other structures, including guideways, drainage, concrete and asphalt pavement, embankments, barriers, utilities, traffic control, striping and signs, sidewalks, railroad, and other civil work for the complex Construction Package mega-project, including overseeing the Design Build (DB) contractor's efficient design and construction of a quality facility within the project's cost, scope, and schedule. The incumbent will also provide oversight of work performed by the Project and Construction Management (PCM) consultant, the Program Delivery Support (PDS) contracts, and other various contracts. The incumbent assists the Design and Construction Engineer in representing the Authority at meetings and prepares correspondence and reports.

Duties

Percentage

Essential (E)/Marginal (M)

- 35% (E)
- Performs required quality assurance and verification inspections of structures and civil work such as bridges, retaining walls, MSE walls, barriers, utility relocations, earthwork, guideways, drainage, concrete and asphalt pavement, embankments, barriers, traffic control, striping and signage, sidewalks, railroad, Americans with Disabilities Act (ADA), and other civil work).

ADA Notice

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- Completes daily inspection reports of contractors' construction activities, inspections performed, tests conducted, and materials placed.
 - Advises Authority staff on the status of construction activities or issues and verifies the mitigation implementation for non-conforming items.
 - Assists in identifying project risks and mitigation measures as needed.
- 30% (E)
- Provides oversight of work performed by various consultants to ensure compliance with assigned work duties; documents contract performance, takes corrective action when appropriate; reviews or assists with constructability reviews and reviews various contracts and project documents prepared by others; and confers with consultants regarding contract compliance.
 - Maintains logs and other records related to the quality of construction materials and facilities.
- 20% (E)
- Ensures quality assurance tests are performed in compliance with the approved quality management plan.
 - Verifies inspection frequencies are risk-based and includes full-time, intermittent, and benchmarks as required during all construction phases.
 - Maintains inspection reports and documents the results of quality tasks such as inspections, testing, and audits.
 - Reviews informational and action submittals and shop drawings and confirms compliance with the requirements of the approved plans and specifications.
- Frequent travel to job sites and field offices to conduct regular state business. Occasional travel to Sacramento for training and meetings may be required.
- 10% (E)
- Produces meeting minutes; maintains project and contract files; attends training; conducts special reviews; handles telephone inquiries; attends public workshops; mentors and develops staff; attends staff meetings and interprets new project requirements; and prepares and presents information to the public regarding transportation engineering matters.
- 5% (M)
- Performs other job-related duties as required.

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Special Requirements

The checked boxes below indicate any additional requirements of this position.

License Required Yes ☒ No ☐	Conflict of Interest (COI) Yes ☒ No ☐	Bilingual Required Yes ☐ No ☒	Contract Manager Yes ☒ No ☐	Medical Required Yes ☐ No ☒
Type: Driver License		Language:		

Other Special Requirements Information:

Employer Pull Notice: Possession of a valid driver license of the appropriate class issued by the California Department of Motor Vehicles and is subject to the Employer Pull Notice Program.

Conflict of Interest: This position is designated under the Conflict-of-Interest Code. The position is responsible for making, or participating in the making, of governmental decisions that may potentially have a material effect on personal financial interests. The employee is required to complete form 700 within 30 days of assuming employment. Failure to comply with the Conflict-of-Interest Code requirements may result in disciplinary action.

Contract Manager: Ensures that assigned contracts and agreements are administered and managed in accordance with the applicable policies and procedures of the Authority, the State Contracting Manual (SCM), and the California Government Code (GC).

Knowledge and Abilities

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.

Ability to: Do simple mapping and drafting and make neat and accurate computations and engineering notes; prepare reports; establish and maintain friendly and cooperative relations with those contacted in the course of the work; communicate effectively.

Desirable Qualifications

- Excellent written and oral communication and negotiating skills.
- Knowledge of project development, specifications, design, construction, and maintenance techniques.
- Experience applying civil engineering and engineering science based principles related to stress analysis, strength of materials, geotechnical, and hydraulics.
- Experience applying construction and design methods and procedures.

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- Experience supporting quality assurance, inspections, and specification compliance activities.
- Experience preparing technical documentation and reports.
- Knowledge and experience of engineering surveying, materials, testing, tools, and equipment used in construction and maintenance of transportation facilities.
- Ability to analyze and develop effective solutions to difficult and technical problems relating to high-speed rail project.
- Ability to present technical information to peers and/or management.
- Knowledge and ability to use office applications, including word processing, spreadsheets, and presentations; take meeting minutes, and prepare meeting calendars.
- Demonstrated ability to do mapping and drafting maps, charts, and diagrams of transportation systems.
- Demonstrated ability to understand construction plans and specifications of transportation systems and transportation facility planning and design principles for a high-speed rail system.
- Experience partnering and providing professional guidance in the area of transportation.

Supervision Exercised Over Others

This position does not supervise staff; however, the incumbent may act as a lead on certain assigned tasks.

Public and Internal Contacts

The incumbent will have regular contact with various levels of staff at the Authority, consultants, vendors, contractors, staff at other state agencies, and the public. Employees must handle all situations and communications tactfully and respectfully to support the Authority's mission.

Responsibility for Decisions and Consequence of Error

The incumbent receives general instructions from a registered engineer regarding the scope of and approach to projects or assignments, but procedures and techniques are left to the discretion of the employee. Errors in judgment or failure to carry out the responsibilities of this position could place the Authority in violation of state and federal requirements, which could negatively impact the Authority. The incumbent must exercise good judgment and make effective decisions to fulfill the position's responsibilities.

Physical and Environmental Demands

This is a field job position. Job will have exposure to night work, field work, earthwork, paving operations, lab work, fog, weather conditions, chemicals, lab conditions, equipment, machinery, heat, cold, dust, gas, fumes, outdoor conditions, indoor conditions, humidity, and high decibels of noise.

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While at the construction office, the incumbent works in a professional office environment, in a climate-controlled area which may fluctuate in temperature and is under artificial light. The incumbent will be required to use a computer, mouse, and keyboard, and will be required to sit for long periods of time at a computer screen. Employee must be able to focus for long periods of time, multi-task, adapt to changes in priorities, and complete tasks or projects with short notice. Employee must develop and maintain cooperative working relationships and display professionalism and respect for others in all contact opportunities. Incumbent must work with a variety of materials including testing equipment. Must be able to work on uneven ground, climb, lift, carry, bend, squat, kneel, crouch, reach, pull, push, grasp, sit, stoop, crawl, and repetitive use of extremities. Must be able to transport variety of objects that are less or equal to 40 pounds. Hard hat, eye protection, and safety vest or approved safety shirt must be worn at all times in the field, no exceptions.

Working Conditions and Requirements

- a. Schedule: A set schedule of Monday through Friday, 7:00 a.m. to 4:00 p.m. is required for this position. Night work and overtime may be required. Workload may subject employee to night work, flexible hours, frequent changes of shift, frequent changes of work hours and workdays, and geographic transfer. Vacations may be restricted during peak times.
- b. Telework: Part-time telework may be available for this position for California residents based on the requirements of the position.
- c. Travel: Frequent travel to job sites and field offices to conduct regular state business. Occasional travel to Sacramento for training and meetings may be required.
- d. Other: The incumbent may perform duties across a multi-county service area, including Fresno, Tulare, Kings, and Kern counties.

Acknowledgement and Signatures

I have read and understand the duties listed above and can perform them with/without reasonable accommodation (RA). (If you believe you may require RA, please discuss this with the hiring supervisor. If you are unsure whether you require reasonable accommodation, inform the hiring supervisor who will discuss your concerns with the RA Coordinator.)

Employee Printed Name:	Signature:	Date:
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I have discussed the duties with and provided a copy of this duty statement to the employee named above.

Supervisor Printed Name:	Signature:	Date:
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