

Position Details**Classification:**

Senior Transportation Engineer

Office:

Planning and Engineering

Working Title:

Engineering Technical Lead

Location:

Fresno

Position Number:

311-646-3161-006

HR Approval Date/Initials:

SA 7/30/26

**CBID/Bargaining
Unit:**

R09

**Work Week
Group:**

E

Tenure:

Permanent

Time Base:

Full-time

Job Description Summary

Under the general direction of the Supervising Transportation Engineer, the Senior Transportation Engineer serves as an Engineering Technical Lead with the High-Speed Rail Authority (Authority). The Senior Transportation Engineer is responsible for providing technical oversight for the Station and Facilities Unit to support design and construction of facilities such as train stations and maintenance facilities at the Authority, a complex railroad megaproject. The Senior Transportation Engineer ensures that all building systems and designs comply with applicable codes, standards, and State of California regulations including seismic safety, sustainability, and accessibility. Provides technical guidance and oversight throughout project design and construction phases. The Senior Transportation Engineer represents the Authority at various meetings, with contractors, consultants, and representatives from other federal, state, regional, and local agencies. The Senior Transportation Engineer prepares correspondence between contractors, consultants, and other stakeholders, regarding technical engineering issues.

Duties

Percentage

Essential (E)/Marginal (M)

35% (E)

- Develops engineering policies, procedures, and bulletins.
- Reviews and accepts architectural and engineering designs, drawings, and specifications for new construction, renovation, and repair projects.
- Develops and maintains engineering processes and plans.
- Performs analysis and interpretation of reports, studies, and plans to establish engineering services.

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- Coordinates the work of multiple disciplines, including structural, mechanical, electrical, plumbing (MEP), fire/life safety, and civil systems, to ensure fully integrated building design.
 - Utilizes Building Information Modeling (BIM) tools such as Revit, Navisworks, or BIM 360 for model coordination.
 - Works cooperatively as a representative of the Authority at external and internal meetings.
 - Prepares correspondence and reports relating to technical issues between contractors, consultants, and other stakeholders.
- 35% (E)
- Responsible for technical oversight during the planning, design and construction of segments along the high-speed rail corridor.
 - Reviews consultant and contractor design submittals for compliance with applicable codes including California High-Speed Rail Authority Design Criteria, California Building Code (CBC), Title 24 Energy Code, CALGreen, California Fire Code, and ADA requirements.
 - Conducts field investigations, condition assessments, and evaluates building systems for deficiencies or improvements.
 - Provides technical oversight during design and construction, including responding to RFIs, reviewing shop drawings, and ensuring design intent and performance requirements are met.
 - Participates in commissioning and closeout of projects, verifying performance of MEP and fire/life safety systems.
 - Performs document management and review coordination related to technical design submittals, requests for information, and designs variance requests.
 - Coordinates with state agencies, consultants, and contractors to ensure quality, safety, and efficiency of project delivery.
- 25% (E)
- Facilitates timely reviews of invoices for completeness and compliance with Authority's policies and procedures, the State Contracting Manual (SCM) and the California Government Code (GC), to ensure timely payments are made and to avoid penalties under the California Prompt Payment Act.
 - Monitors and manages assigned contracts and agreements to ensure all contractual requirements are met and are administered in with the applicable policies and procedures of the Authority, SCM and GC.,
 - Provides project management support including development of scope of work, schedule, and budget for task orders.
 - Occasionally travels statewide to various construction sites and to represent the Authority at meetings with contractors, consultants, the public, and other stakeholders.

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5% (M) • Other work related duties as required.

Special Requirements

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

License Required Yes ☒ No ☐ Type: Engineering	Conflict of Interest (COI) Yes ☒ No ☐	Bilingual Required Yes ☐ No ☒ Language:	Contract Manager Yes ☒ No ☐	Medical Required Yes ☐ No ☒
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Other Special Requirements Information:

License Required: Possession of a valid certificate of registration as a civil engineer issued by the California State Board of Registration for Professional Engineers.

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: Various phases of transportation engineering, including planning processes and methods, systems planning, evaluation of alternatives, and facility locations and design, construction, operation and maintenance; transportation economics and financing; project management concepts; factors which influence the impact of transportation facilities on the environment, the community and the economy; principles and techniques of personnel management and supervision; Department's Equal Employment Opportunity (EEO) objectives; a supervisor's role in EEO, health and safety and labor relations programs and the processes available to meet their objectives.

Ability to: Plan and direct the work of others; analyze situations accurately and adopt an effective course of action; make effective presentations; prepare correspondence and reports; communicate effectively; effectively contribute to the Department's EEO objectives.

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Desirable Qualifications

- Knowledge of principles and practices of architectural and engineering design, including building envelope, structural, and MEP systems.
- Knowledge of building Information Modeling (BIM) standards, workflows, and data coordination practices.
- Ability to understand and interpret California Building Codes, Fire/Life Safety Codes, Title 24 Energy Regulations, CALGreen, and ADA standards.
- Knowledge of and experience in Seismic design principles and their application in structural engineering and building and facility systems.
- Experience working on design-build and design-bid-build projects.
- Knowledge of and ability to apply engineering judgment in areas of design and construction engineering on building and maintenance facility projects.
- Experience with design criteria, standard specifications and or directive drawings and technical reports and correspondence.
- Strong written, oral, and presentation skills.
- Ability to work independently but with the judgement to know when to ask for assistance and guidance from a supervisor or colleague.
- Experience providing technical oversight related to transportation projects.
- Project management principles including scheduling, budgeting, and scope control.
- Contract management and consultant coordination practices.
- Knowledge of Safety and environmental regulations applicable to public building projects.
- Engineering coordination experience.
- Experience with contract management.
- Experience managing contractors and consultants or being a team lead over a transportation project.
- Experience building and maintaining positive working relationships with internal and external stakeholders.

Supervision Exercised Over Others

This position will not supervise but may oversee and provide technical assistance and guidance to consultants, staff, and other state and federal employees who work on the high-speed rail project. On individual projects, the incumbent may serve in a lead capacity over other Authority and consultant staff. May function in a lead capacity or act in that role when the project lead is absent.

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.

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Responsibility for Decisions and Consequence of Error

This position is responsible for a program or function and is expected to carry out necessary activities without direction, except as new or unusual circumstances require. Errors may have a significant impact on the internal and external operations of the Authority. Successful performance of the above-listed duties is essential to ensure that program delivery and project matters are resolved in an efficient and effective manner. Failure to perform these duties effectively could result in additional costs to the state to complete the high-speed rail project and political embarrassment for the Authority in the event of improper handling of duties on the largest infrastructure project in the nation. The incumbent should exercise a high degree of initiative and independent judgment in regularly performing the most difficult duties.

Physical and Environmental Demands

While working on-site, 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.

While working at a construction site, the incumbent may be exposed to hazards such as unguarded machinery, heavy construction equipment, high-voltage electricity, and hazardous materials such as paints, solvents, silica dust, or other dangerous construction materials.

Working Conditions and Requirements

- a. Schedule: This position requires a Monday through Friday 8AM to 5PM schedule, unless approved by the supervisor.
- b. Telework: Part-time telework is available for this position for California residents based on the requirements of the position.
- c. Travel: This position occasionally travels statewide to various construction sites and to represent the Authority at meetings with contractors, consultants, the public, and other stakeholders.
- d. Other: N/A

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Acknowledgment 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.)

Incumbent Printed Name:	Signature:	Date:

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

Supervisor Printed Name:	Signature:	Date:

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