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**Position Details****Classification:**  
Principal Transportation Engineer**Office:**  
Infrastructure Maintenance**Working Title:**  
Quality Inspection Director**Location:**  
Fresno**Position Number:**  
311-605-3152-001**HR Approval Date/Initials:**  
06/01/2026 FAY**CBID/Bargaining  
Unit:** M09**Work Week  
Group:** E**Tenure:**  
Permanent**Time Base:**  
Full-Time**Job Description Summary**

Under the general direction of the Chief of Infrastructure Maintenance of California High-Speed Rail Authority (Authority), the Principal Transportation Engineer (Quality Inspection Director) serves as the Authority's lead for materials quality inspection, verification, and oversight. The incumbent is responsible for developing, implementing, and maintaining an independent materials inspection function to ensure materials used for high-speed rail project comply with approved plans, specifications, contract requirements, quality standards, and applicable federal and state requirements. The incumbent oversees contract and subcontractor quality plans, third-party testing, Non-Conformance Reports (NCRs), Corrective and Preventive Actions (CAPA), and continuous improvement efforts. The incumbent also provides technical guidance, develops quality inspection procedures, coordinates with internal and external stakeholders, and promotes a consistent application of quality standards.

**Duties**

Percentage

Essential (E)/Marginal (M)

- 35% (E)
- Leads and oversees materials quality inspection activities for high-speed rail project to ensure compliance with approved plans, specifications, and contract requirements.
  - Implements and oversees the three-phase quality control process, including preparatory, initial, and follow-up inspections.
  - Conducts constructability and design reviews during planning, procurement, and closeout phases of major infrastructure projects.
  - Verifies that materials meet quality, performance, and contract requirements prior to acceptance, installation, commissioning, or placement into service.

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- Identifies deficiencies, record NCRs, and formulate CAPA.
  - Tracks the resolution of quality issues and verifies the effectiveness of implemented corrective actions.
  - Maintains inspection records and documentation supporting quality verification and acceptance decisions.
- 25% (E)
- Develops and maintains Quality Management Plans (QMPs), Quality Verification Plans (QVPs), and related quality documentation.
  - Develops, implements, and maintains Quality Management Systems (QMS) and ensure they adhere to federal and state guidelines, and industry best practices.
  - Establishes inspection checkpoints, verification methods, documentation requirements, and reporting procedures.
  - Ensures quality inspection activities are performed in adherence with Authority's Public Safety Plan, Equal Employment Opportunity, and Americans with Disabilities Act.
  - Evaluates the effectiveness of quality control processes and develops recommendations for improvements.
  - Conducts quality audits and assessments of materials inspection, testing, or other inspection-related activities.
  - Conducts root cause analysis, recommends corrective measures, and trains teams to prevent recurrence of quality deficiencies.
  - Develops quality-related guide documents, inspection procedures, and training materials.
- 20% (E)
- Reviews and approves contractor and subcontractor quality plans prior to mobilization.
  - Monitors project budgets and schedules, review contractor performance, and ensure that contractors and consultants deliver work in compliance with approved quality plans, specifications, procedures, standards, and contract requirements.
  - Oversees third-party testing, commissioning, Factory Acceptance Testing (FAT), and other related verification testing.
  - Reviews testing results, inspection reports, and certifications.
  - Coordinates with contractors, subcontractors, and project teams to resolve quality concerns.
  - Verifies corrective actions are implemented and quality requirements are satisfied before acceptance of materials or completed work.
  - Foster a safety-first, quality-focused, and collaborative work environment.

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- 15% (E)
  - Assigns work and priorities, monitors progress, adjusts priorities, redistributes workload, and secures extensions as needed to meet established deadlines.
  - Selects and hires staff and identifies training needs.
  - Prepares and delivers probationary and annual performance evaluation reports; identifies, addresses and resolves employee performance issues; and takes proper employee disciplinary action.
  - Identifies tools necessary for staff to perform work efficiently.
  - Approves staff timesheets, leave requests, and work schedules based on business needs.
  - Provides technical leadership and guidance to staff performing quality inspection, testing, auditing, and verification activities.
  - Provides supervision, support, and guidance to staff consistent with policies and ensure uniform interpretation and implementation of laws, rules, regulations, policies, and procedures.
  
- 5% (M)
  - Performs other job-related duties as required.

**Special Requirements**

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

License Required Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Type: Engineering	Conflict of Interest (COI) Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Bilingual Required Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Language:	Contract Manager Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Medical Required Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Other Special Requirements Information:

*License* – Possession of a valid certificate of registration as a civil, electrical, or mechanical 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 and the California Government Code. Provides oversight and guidance to subordinate contract managers, holding them accountable for

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ensuring that assigned contracts and agreements are administered and managed in accordance with the applicable policies and procedures of the Authority, the SCM, and the GC.

### **Knowledge and Abilities**

Knowledge of: Transportation economics and financing; various phases of transportation systems planning and engineering work; factors which influence the impact of transportation facilities on the environment, the community, and the economy; State and Federal laws regulating the activities of the Department; principles and techniques of personnel management and supervision; the Department's equal employment opportunity and labor relations objectives; a manager's role in safety, health, equal employment opportunity, and labor relations and the processes available to meet these program objectives.

Ability to: Administer an engineering program; plan and direct the work of a large engineering staff; analyze situations accurately and take effective action; address an audience effectively; present comprehensive reports and prepare correspondence; communicate effectively; effectively contribute to the Department's safety, health, equal employment opportunity, and labor relations objectives.

### **Desirable Qualifications**

- A bachelor's degree in engineering or a related field.
- More than Five (5) years of progressive quality management or project controls experience, preferably within public transportation, heavy rail, or civil construction sectors.
- Certification as a Certified Quality Manager (CMQ/OE), Project Management Professional (PMP), Six Sigma Green Belt/Black Belt, or equivalent is desirable.
- Precast/Prestressed Concrete Institute (PCI) certification.
- Experience developing and administering QMS.
- Experience performing quality assurance and quality control activities on transportation, rail, civil, or infrastructure projects.
- Experience conducting quality audits, inspections, and compliance reviews.
- Experience reviewing contractor quality plans and quality control programs.
- Experience managing NCRs and CAPA.
- Knowledge of quality management principles, continuous improvement methodologies, and risk management practices.
- Familiarity with Association of American Railroads (AAR) M-1003 standards and audit requirements.
- Experience interpreting engineering plans, specifications, and contract requirements.
- Experience leading multidisciplinary teams and coordinating with contractors, consultants, and public agencies.
- Ability to exercise a high degree of initiative, flexibility, judgment, and confidentiality.

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- Ability to analyze complex problems and recommend effective courses of action; prepare and review reports.

### **Supervision Exercised Over Others**

This position supervises a Senior Transportation Engineer and provides technical advice and guidance to consultants, contractor staff, staff, and other state and federal employees who work on the high-speed rail project. On individual projects, the incumbent serves in a project manager capacity over other Authority and consultant staff.

### **Public and Internal Contacts**

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

### **Responsibility for Decisions and Consequence of Error**

The incumbent 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 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 and the infrastructure of the high-speed rail. The incumbent must exercise good judgment and make effective decisions to fulfill the position's responsibilities.

### **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. 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.

The incumbent is required to work in field, including inspections of manufacturing plants and other sites, and may be exposed to dirt, noise, uneven surfaces, inclement weather, and extreme heat or cold.

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**Working Conditions and Requirements**

- a. Schedule: Flexible schedules may be available for this position. Specific schedules will be set by supervisor and employee.
- b. Telework: Part-time telework may be available for this position for California residents based on the requirements of the position.
- c. Travel: Occasional statewide and out-of-state travel may be required to support meetings, inspections, site visits, and other business-related activities.
- d. Other: N/A

**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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