



JOB OPENING ANNOUNCEMENT

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Employment Hotline (650) 508-6308

December 16, 2022

TITLE: Manager, Train Control Systems Engineering
EMPLOYMENT TYPE: Exempt (Full-Time)
DIVISION: Rail
APPLICATION DEADLINE: Sunday, January 8, 2023
PAY RANGE: \$2,342-\$3,513 per week (\$121,792-\$182,688 estimated annual)
WORK LOCATION: San Carlos, California

JOB SUMMARY: The Manager, Train Control Systems reports to the Deputy Director Rail Systems Engineering and is responsible for oversight and management of complex train control engineering work including the installation, modification, maintenance, and upgrade of the District's Rail Operations Control System (ROCS) for the Peninsula Corridor Joint Powers Board (Caltrain).

EXAMPLES OF ESSENTIAL FUNCTIONS:

- Oversee maintenance and upgrade of the following systems: Rail Operations Control System (ROCS); Predictive Arrival and Departure System (PADS), Positive Train Control (PTC) back-office systems, Traction Power Controls (TPS), Supervisory Control and Data Acquisition (SCADA) System and Rail Scheduling.
- Develop and ensure the quality of system engineering support for PTC office systems, including Back Office Server (BOS), Rail Operations Control System (ROCS), Network Management System (NMS); Interoperable Train Control Message Server (ITCMS); Wayside Status Relay Service (WSRS), and the interfaces to all other operational systems.
- Develop and establish policies and procedures for Train Control Systems and ensure compliance.
- Ensure Caltrain systems meet Federal Railroad Administration (FRA) mandated interoperability requirements with all tenant railroads; ensure Caltrain train control systems are compatible with Association of American Railroads (AAR) standards; follow the ITC guidelines that Caltrain must maintain "N-2" backwards compatible software versions.
- Manage complex and large-scale train control engineering projects.
- Manage the work of outside contractors and assist higher level Caltrain Directors and Executives in planning and evaluating the quantity and quality of work performed by subordinate staff.
- Supervise staff. Hire, mentor, and take appropriate corrective and/or disciplinary action. Ensure EEO policies and procedures are followed. Participate in selection of staff. Coordinate staff training and professional development. Establish performance objectives. Monitor and evaluate employee performance.

EXAMPLES OF DUTIES:

- Establish and maintain work relationship with internal and external stakeholders to develop consensus on capital project work plans.
- Establish schedules and methods for providing train control system engineering design services on assigned capital projects; identify resource needs; review needs with appropriate management staff; allocate resources accordingly.
- Review and approve project schedules; assist in strategic planning; prepare status reports; coordinate project resources; communicate with all project participants on relevant issues; identify and resolve train control engineering issues.
- Provide general technical oversight of railroad train control systems.
- Perform system usage and performance analyses.
- Support Caltrain Configuration Management (CM) Manager on configuration control, prioritize system defects and corrective actions; participate in Configuration Control Board (CCB) meetings as required.
- Direct, review, and approve the preparation of train control engineering designs, drawings, and specifications; identify and resolve technical engineering issues.
- Manage technical elements of the office systems warranty and long-term maintenance support service agreements.
- Review and approve operating manuals and procedures developed by various systems provider or vendors.
- Manage all technology refresh and software upgrades/updates and associated testing without interrupting regular railroad operations
- Participate in the preparation and administration of the train control engineering program budget (Operating & Maintenance, and Capital); submit budget recommendations; monitor expenditures.

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- Review consultant proposals and designs; recommend awards; conduct or participate in the pre-bid conferences prior to system contract awards.
- Evaluate job performance of staff which also includes the professional development of staff through the identification of on-the-job and other professional development opportunities. Perform all job duties and responsibilities in a safe manner to protect one's self, fellow employees and the public from injury or harm. Promote safety awareness and follow safety procedures in an effort to reduce or eliminate accidents.
- Perform other duties as assigned.

SUPERVISION: Works under the general supervision of the Deputy Director, Rail Systems Engineering, who provides policy guidance, establishes goals and objectives, monitors and evaluates performance.

MINIMUM QUALIFICATIONS:

Sufficient education, training, and experience to demonstrate the knowledge and ability to successfully perform the essential functions of the position. Development of the required knowledge and abilities is typically obtained through but not limited to:

- Bachelor's degree in electrical/electronics, computer science, or a related field
- Five (5) years of railroad industry experience in Train Control System and SCADA system development and maintenance.
- Two (2) years supervisory experience.

PREFERRED QUALIFICATIONS:

- Knowledge and experience with AIMCore Product/Software a plus.
- Possess a broad interdisciplinary knowledge of supervisory train control, wayside signal, highway crossing warning system, predictive and arrival system, traffic signal control, traction power substations and distribution, SCADA, etc.
- Knowledge of operating systems (UNIX, Linux, Microsoft)
- Knowledge of VHF and UHF radio voice and data communications, information assurance, data security, and networking technologies.
- Experience with Configuration Management and Quality Assurance systems.
- Ability to Interpret and revise engineering plans, drawings, and specifications.
- Proficient with Microsoft Office Suite.
- Effective oral and written communication skills.

SELECTION PROCESS MAY INCLUDE: The process will include a panel interview and may include written and skills test assessments or supplemental questions. Only those candidates who are the most qualified will continue in the selection process. Meeting the minimum qualifications does not guarantee an invitation to continue in the process.

EMPLOYEE BENEFITS:

For further benefit details please visit: https://www.smctd.com/SMCTD_Employment.html#benefits

Holidays	: Seven (7) paid holidays, plus up to four (4) floating holidays per year
Paid Time Off	: Up to 26 days per year
Cafeteria Plans	: Medical, dental, vision care, group life insurance, and more
Transportation	: Free transportation on Caltrain for employees. Free bus transportation for employees and qualified dependents
Retirement	: Social Security and California Public Employees Retirement Systems (CalPERS) <ul style="list-style-type: none"> • Classic Members – 2% @ 60 benefit formula, 3-year average of highest compensation • New Members – 2% @ 62 benefit formula, 3-year average of highest compensation

HOW TO APPLY:

- To apply, please visit the <https://www.caltrain.com/about-caltrain/jobs>. **Online submittal will be accepted until 11:59p on January 8, 2023.** Complete an online employment application. A resume will not be accepted in lieu of the employment application.
- The Human Resources Department will make reasonable efforts in the recruitment/examination process to accommodate applicants with disabilities upon request. If you have a need for an accommodation, please contact the Human Resources Department at (650) 508-6308 or email written request to hr@samtrans.com.
- Caltrain celebrates diversity and is committed to creating an inclusive and welcoming workplace environment. We are an Affirmative Action/Equal Opportunity Employer. Minorities, Women, Persons with Disabilities and Veterans are encouraged to apply.