



# JOB OPENING ANNOUNCEMENT

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Employment Hotline (650) 508-6308

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September 15, 2023

**TITLE:** Signal Engineer III  
**EMPLOYMENT TYPE:** Exempt  
**DIVISION:** Operations & Maintenance  
**APPLICATION DEADLINE:** Sunday, October 8, 2023  
**PAY RANGE:** \$2117 - \$3175 weekly (\$110,089 - \$165,134 estimated annual)  
**WORK LOCATION:** Menlo Park, CA

## JOB SUMMARY:

The Signal Engineer III will report to the Manager of Signals & Grade Crossings and is responsible for the maintenance and oversight aspects of the signal and grade crossing systems for the Peninsula Corridor Joint Powers Board (Caltrain).

## EXAMPLES OF ESSENTIAL FUNCTIONS:

- Assist with the configuration management of the signal and grade crossing systems, their subsystems, and assets, along with any updates/changes to the configuration management.
- Support all of Caltrain's technical specifications and standards of the systems and assets, also ensure specifications and standards are current.
- Coordinate and interface management and integration of the signal and grade crossing systems with other internal and external systems, subsystems, including Positive Train Control.
- Represent as necessary signals and grade crossings for all Caltrain projects, with stakeholders, and other parties.
- Support to insure the signal and grade crossing systems are compliant with Federal Railroad Administration (FRA), California Public Utilities Commission (CPUC) requirements, and Caltrain standards.
- Assist with the filings to the FRA and the CPUC pertaining to signals and grade crossings.
- Support design reviews, and the approval of the designed system.
- Support to insure standardization of the signal and grade crossing systems across the different projects.
- Assist with the development of an asset maintenance plan for assigned assets.

## EXAMPLE OF DUTIES:

- Oversee test procedures and maintenance work practices are followed.
- Work under the Manager, Signals & Grade Crossings to help develop a 5- and 10-year State of Good Repair (SOGR) maintenance program.
- Develop and work with Contract Operator on continuous improvement programs.
- Assist with all signal and grade crossing design, installation, testing, and cutover requirements to ensure compliance with FRA, CPUC regulations, and Caltrain Standards.
- Support technical oversight of railroad signal and grade crossing system operations, perform advanced troubleshooting, system usage, and performance analyses.
- Support as necessary revisions to updated signal and grade crossing engineering standards, policies, and procedures.
- Provide support on matters related to signals and grade crossings with internal (operations), external stakeholders, and agencies such as the CPUC, the FRA, cities, and other parties, as required.
- Assist with identifying and resolve signal and grade crossing engineering and technical issues.
- Support Caltrain operations and other engineering teams for matters related to signal and grade crossing, support of signal cutovers, including nights and weekends.
- Provide continuous review of operating manuals and procedures developed by various system providers or vendors.
- Define minimum levels for spare parts and equipment inventory for Signals & Grade Crossings.

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**San Mateo County Transit District, 1250 San Carlos Ave., San Carlos, CA 94070-1306**

- 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 Manager, Signals & Grade Crossing who establishes goals and objectives and evaluates performance.

**MINIMUM QUALIFICATIONS:** Sufficient experience, training and/or education to demonstrate the knowledge and ability to successfully perform the essential functions of the position. In lieu of a degree, work-related experience that demonstrates the skills and experience necessary to perform this role will be accepted. Development of the required knowledge and abilities is typically obtained through but not limited to:

- Bachelor's degree in electrical engineering, Computer Science, or related field preferred.  
In lieu of a degree eight years of experience of railroad signals and grade crossing
- Two years of supervisory experience

**PREFERRED QUALIFICATIONS:**

- Five (5) years' experience of railroad signal and grade crossing design, maintenance, and/or engineering.
- Experience with programming Solid State Vital Processor/Controllers for Rail Signal and Grade Crossings is preferred.
- Effective communication skills orally and written.
- Strong prior experience with Microsoft Office suite, scheduling software (MS Project or Primavera), requirements management systems, and software configuration tools, preferred.
- Experience with rail systems, electrification, electrical interfaces, software, and network protocols, and system integration with commercial off the shelf (COTS) hardware and software is preferred.
- Experience managing contractors and consultants are preferred.
- Certificate of completion from a certified Signaller Training program

**SELECTION PROCESS:**

The process may include a written and skills test assessments or supplemental questions and will require a panel interview. 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.

**CURRENT EMPLOYMENT BENEFITS:**

For further Benefits details please go to: <https://www.caltrain.com/about-caltrain/jobs/employee-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 Plan:	Medical, dental, vision care, group life insurance, and more
Rail Transportation	Free Caltrain transportation for employees
Transportation:	Free bus transportation for employees and qualified dependents
Retirement:	Social Security and California Public Employees Retirement Systems (CalPERS) <ul style="list-style-type: none"> <li>○ Classic Members – 2% @ 60 benefit formula, 3-year average of highest compensation</li> <li>○ New Members – 2% @ 62 benefit formula, 3-year average of highest compensation</li> </ul>

**HOW TO APPLY:**

- To apply, please visit the <https://www.caltrain.com/about-caltrain/jobs>. Complete an online employment application and supplemental questionnaire by 11:59 pm on **Sunday, October 8, 2023**. A resume will not be accepted in lieu of the application and supplemental questionnaire (If required). Incomplete application will not be considered.
- 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.
- SamTrans 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.

