

Title: Track Engineer
Location: Remote
Salary: \$145k - \$160k
Hours: Full-Time

JOB DESCRIPTION:

This position will be responsible for managing and providing track design expertise in relation to engineering work associated with the client. The Track Engineer provides specialist technical knowledge to support the development of client's technical requirements in compliance with any applicable state and federal statutes, the Design Criteria and Specifications, national and international standards and best industry practice. This includes Track, Automatic Train Control systems, Traction Electrification and Distribution Systems, Telecommunications and any other system or infrastructure required for the safe and efficient performance of the client's system. The Track Engineer works in the Rail and Operations Delivery Branch of the client's office of Program Delivery.

RESPONSIBILITIES AND REQUIREMENTS:

- Design and direct rail-related components of the client's Project
- Develop and oversee the design of track alignments, including special track work such as turnouts, crossovers and diamond crossings.
- Prepare and review geometric details of track alignments including horizontal and vertical curve data.
- Prepare detailed engineering plans using the various software products.
- Play an integral part in the development and review of plans, specifications and cost estimates for Rail Design projects.
- Perform railroad track inspections and other site inspections during construction and maintenance projects to determine if they are within tolerance levels established by the Federal Railroad Administration (FRA), AREMA, and other applicable regulations.
- Monitor and review the deliverables of the regional teams and contractors to ensure work is being performed in accordance with specifications, drawings and terms of contract.
- Provide technical assistance to establish and develop scope of work, performance and technical requirements and design criteria for client described within California High-Speed Rail contracts.
- Provide guidance and leadership to high-speed rail systems and track engineering team members. Mentoring and advising staff regarding various FRA, AREMA, Class I Railroad and Passenger/Commuter Railroad requirements and preferences.

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KNOWLEDGE OF:

Design, construction, testing and commissioning, operation, maintenance, renewal and asset management of rail Track, including track alignments (horizontal, vertical, and super-elevation), track formation, track structure and drainage), and familiarity with ATC, Traction electrification, hazard detection and warning systems, and emergency alarms.

ABILITY TO:

Utilize sound engineering practices and knowledge to review developed requirements, specifications, designs and reports and to be able to interpret those technical requirements for compliance with statute, national and international design standards and best industry practice. Demonstrate attention to detail in preparing and reviewing technical work/proposals, be able to provide insight and guidance based on previous work experience. Develop and review designs and technical specifications; Develop cost estimates and projections; Work and communicate effectively with others (project team members, contractors, and client representatives, at different levels, as required) using courtesy, respect and sensitivity. Provide input to multiple working level project meetings and provide feedback and comments on overall project progress

DESIRABLE QUALIFICATIONS

- Professional Engineer (PE) license or Chartered Engineer (CEng) status.
- Bachelors or Master's degree in civil, electrical/electronic, mechanical, computer, systems engineering or related engineering discipline.
- Demonstrated experience on various types of rail projects, to include design and plan development of rail projects.
- Experience in heavy rail and/or high-speed rail systems.
- Understand integration of other disciplines such as traction power, overhead contact systems, signals, and communications.
- Knowledge of engineering computations and structural analysis.
- Knowledge/experience of the US railroad industry and/or international railroad systems.
- Knowledge of railroad operations.
- Thorough knowledge of and practical experience applying AREMA Chapter 17, European Technical Specifications (TSI) and European EN standards as they relate to high-speed track..
- The ability to maintain good communication skills and working relationships with management, other divisions, districts, federal and state agencies, local agencies and private sector contractors, subcontractors and suppliers and their associations.

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- Ability to work collaboratively across rail & transit disciplines (Systems Engineering, Signals, Electrification Systems, Data Communications, and Project Controls), Project Managers, Systems Engineers, Signals Engineers, Analysts, and Coordinators.
- Proficiency and knowledge of office-related computer software applications.
- Membership of relevant professional body.
- Availability to occasionally travel to other local offices and job site locations PMI with no gap

ABOUT ZPro SOLUTIONS INC.

With offices in Florida (HQ), California, and New York, ZPro Solutions Inc. (ZPro) was founded in 2016. Certified as a DBE, MBE and SBE in various states and municipalities.

ZPro Solutions is a technology firm offering a full range of consulting services. We specialize in Business Transformation, Enterprise Asset Management, Data Management, Business Operations, Program Management, Project Management, Data Analytics, and Software Sales. Our highly trained and qualified team of consultants provide the skills and expertise to perform comprehensive analysis, using proven methodologies to develop strategies and plans to meet critical business needs. Our team combines expertise in enterprise asset management, projects management, data science and technology to transform industries and bring clients optimal solutions leading to desired outcomes and the greatest ROI.

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