

Title: Train Control Engineer
Location: Remote
Salary: \$145k - \$155k
Hours: Full-Time

JOB DESCRIPTION:

The Train Control Engineer works within the client's engineering team and provides specialist technical knowledge to support the design and development of Automatic Train Control (ATC) Systems for the client. The technical requirements for the ATC shall be in compliance with the client's Design Criteria and/or specifications, national and international standards and best industry practice. This includes track, ATC systems, traction electrification and distribution systems, telecommunication systems, rail systems and any other system or infrastructure required for the safe and efficient performance of the client's system. The Train Control Engineer works in the Rail and Operations Delivery Branch of the client's Office of Program Delivery.

RESPONSIBILITIES AND REQUIREMENTS

- Establish and develop scope of work, performance and technical requirements and design criteria for high speed rail ATC systems described within client's contracts.
- Work with the Authority and its strategic partners in ancillary high-speed rail program initiatives and to ensure that the high-speed rail systems interface and integrate with other stakeholder systems.
- Monitor and review the deliverables of the regional teams and contractors to ensure that ATC work is being performed in accordance with specifications, drawings and terms of contract.
- Provide guidance and leadership to high-speed rail systems and engineering team members. Mentoring and advising staff regarding various FRA, AREMA, Class I Railroad and Passenger/Commuter Railroad requirements and preferences.

KNOWLEDGE OF:

- Design, construction, testing and commissioning, operation, maintenance, renewal and asset management of high-speed rail ATC systems and equipment.

ABILITY TO:

- Utilize sound engineering practices to develop requirements, specifications, designs and reports; Provide specialist technical knowledge and guidance; Review and interpret high speed rail systems technical requirements for compliance with the High-Speed Rail Authority's design criteria and specifications, any applicable state and federal statutes, system design, national and international standards and best industry practice; Demonstrate attention to detail in preparing and reviewing technical

Title: Train Control Engineer
Location: Remote
Salary: \$145k - \$155k
Hours: Full-Time

work/proposals; Understand and apply novel engineering approaches and concepts; Develop and review designs and technical specifications; Develop cost estimates and projections; Work and communicate effectively with others (suppliers, contractors, stakeholders and client representatives, as required) using courtesy, respect, and sensitivity; Contribute to project working meetings; Meet deadlines; Follow and adhere to workplace policies.

DESIRABLE QUALIFICATIONS

- Professional Engineer (PE) license or Chartered Engineer (CEng) status.
- Bachelors or Master's degree in electrical/electronic, mechanical, computer, systems engineering or related engineering discipline.
- Experience with high-speed rail systems, electrical interfaces, software and network protocols, and system integration with hardware and software.
- Experience with supervisory train control, wayside signal, highway crossing warning system, predictive and arrival system, and traffic signal control.
- Knowledge/experience of the US railroad industry and/or international railroad systems.
- Knowledge of railroad operations.
- 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.
- Proficiency and knowledge of office-related computer software applications.
- Membership of relevant professional body.

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.

<https://www.zprosolutions.com/> or via LinkedIn at:

<https://www.linkedin.com/company/zprosolutions>