Rail Yard Automation Software Engineer (Technical Career Path)

Location: Omaha, NE
Closing Date: 08/09/2016 at 11:59 PM Central Time
Job Open To: Internal and External Candidates

Description

This position is on the technical career path and is part of the Operating Services team, whose focus is on the Hump Process Control (HPC) system, Flat Yard Process Control (FPC) and Yard Modeling and Optimization projects. The HPC system controls switches, braking components and locomotives, while accepting integrated sensor information to safely and accurately classify rail cars. The FPC projects are client server based to remotely automate control of yard switches, track blue flags and derails to add efficiencies to the yard. The Yard Modeling and Optimization projects use mathematical methods, process modeling and simulation techniques to optimize the business.

This position will provide support for the HPC engineers while learning and understanding all technical details of the HPC system. The position will lead the technical design, development, and implementation of yard modeling and optimization tools. This position will also support the architecture design, development, and implementation of an acceptance test lab and advanced simulation environment for the HPC and FPC systems. Primary focuses are software engineering activities including: Gathering and defining technical requirements; planning software development activities; providing technical leadership of onshore and offshore software development teams; performing software development in C, C++, and/or Java; supporting the implementation, monitoring and maintenance of deployed systems while ensuring systems meet functionality, reliability and performance goals.

This position is a part of the Technical Career Path Process. The technical career path is ideal for employees interested in an individual contributor role, who want to work with other team members to ensure a project's success. The main elements of the technical path include: 1) No direct reports, 2)
Heavy technical skills, 3) Heavy teamwork, 4) Heavy client/customer contact, 5) Heavy daily planning and execution, 6) Creativity and 7) Participation in interviewing process.

Union Pacific does NOT provide sponsorship for this position. Applicants who would now or in the future require sponsorship from Union Pacific in order to obtain, extend, or renew authorization to work in the U.S. are ineligible for this position. This includes applicants on the following work visas: F-1 Visas (including CPT and OPT), H, J, M, TN, Any and all other Visas that require Union Pacific Sponsorship.

Accountabilities

- Independantly perform complex tasks using subject matter expertise and transfer knowledge to team members
- Analyze application level messaging using a foundational understanding of the messages being exchanged
- Troubleshoot issues and identify defects
- Analyze the functional and technical requirements of the HPC system and back office applications including system interface requirements and interface control documents
- Effectively manage work time and deliver a quality product within acceptable time limits
- Use basic working knowledge of at least one Union Pacific business process to explain how assigned component fits into business processes
- Solve problems using established precedents
- Understand and integrate solutions in a multi-systems environment, providing a seamless look to the customer
- Set priorities and understand when to deviate from procedure if the end result meets standards (Supervisors typically review the work product or results after completion.)
- Provide significant advice, counsel, information and/or analysis for decision makers

Qualifications

Required

- A Bachelor Degree in Electrical Engineering, Computer Engineering, Computer Science or related field. Equivalent work experience may be considered in lieu of this requirement.
- 6 year(s) experience / knowledge in Information Technology, specifically in software development

Preferred

- Experience with Process Control Technologies
- Experience with various software development methodologies
- Experience with process engineering, modeling, simulation, and optimization technologies
Department

Operating Systems develops and applies new technology and provides ongoing support for railroad operating systems.

Company

Union Pacific is one of America’s premier transportation and logistics companies, linking 23 states in the western two-thirds of the country and serving many of the fastest-growing U.S. cities. Generations of Americans have built successful careers at Union Pacific and in the process, they’ve helped build a nation – delivering lumber for our homes, food for our tables, energy for our power plants and the countless raw materials and finished goods that supply the American way of life.

IT / Computers, IT / Computers

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