



Senior Systems Engineer

CAS is a prime support contractor to the FAA Runway Status Lights Systems (RWSL) program office. The RWSL system integrates airport lighting equipment with approach and surface surveillance systems to provide a visual signal to pilots and vehicle operators indicating that it is unsafe to enter/cross or begin takeoff on runway. The system is fully automated based on inputs from surface and terminal surveillance systems. Airport surveillance sensor inputs are processed through light control logic that commands in-pavement lights to illuminate red when there is traffic on or approaching the runway.

We invite you to put your talents to work for us and our customers. We are searching for a motivated, responsible Senior Systems Engineer ready to join our team of technical professionals who interact directly with our customers to bring about modernization to government mission-critical systems and infrastructure

As a Senior Systems Engineer, you will lead engineering efforts for the RWSL Program. In this role, you will oversee the full systems engineering lifecycle—including design, development, testing, and implementation—to transition modernized components into the operational environment. You will serve as a primary technical liaison between the FAA customer and subcontractors, ensuring that all system enhancements meet rigorous safety and performance standards.

RESPONSIBILITIES

- Lead and facilitate formal technical reviews including System Requirements Reviews (SRR), Preliminary Design Reviews (PDR), and Critical Design Reviews (CDR) with subcontractors.
- Manage the master Verification Requirements Traceability Matrix (VRTM), ensuring requirements are appropriately allocated across development projects.
- Oversee the physical installation, interconnection, networking, and configuration of new components into the RWSL architecture.
- Develop comprehensive system test plans and provide senior-level support for second level engineering system tests at the FAA's RWSL lab facility (Oklahoma City, OK).
- Conduct engineering studies collaboratively with FAA NAS Engineering for qualifying replacement components and developing configuration requirements and procedures for RWSL modernization.
- Revise and maintain critical system documentation, including System Software Documents (SDP, SRS, SDD) and Interface Documents (IDD, ICD).
- Perform complex technical analyses related to hardware/software design, logic, and maintenance to resolve system issues and satisfy cost/schedule requirements.
- Provide expert recommendations on configuration management for all RWSL sustainment configurable items.

QUALIFICATIONS:

- Bachelor's degree in engineering, math, or science is required.
- Minimum of 15 years' experience in systems engineering or positions with similar responsibilities (Radar/Surveillance experience highly preferred).
- Expert knowledge of MS Office Suite (including Project, SharePoint, Teams) and Atlassian Tools (Jira)



- Experience with AutoCAD, Bluebeam, Requirements Management Software, Programming/Coding/Scripting languages is highly beneficial.
- Must be able to read, write, and speak English fluently with strong presentation skills.
- Must have experience in standard hand tools to include power tools, Power Actuated Tools, ladders, as well as specialty hand tools and test equipment.
- Frequently lift, carry, push, and pull materials, equipment, and products. Able to lift up to 35 pounds for a one-person lift.
- Remain standing and/or walking for extended periods.
- Must be able to occasionally work during odd hours (night shift) while on-site and during specific system outages or during airport closures when systems are available for service maintenance.
- Frequently bend, stoop, kneel, crouch, reach, crawl, and twist while performing assigned duties.
- Work in confined, restricted, or otherwise tight spaces as required by operational needs.
- Perform repetitive physical tasks while maintaining quality, productivity, and safety standards.
- Safely operate in an industrial, warehouse, manufacturing, or field-service environment.
- Ability to walk up/down multiple floors, stairs, or ladders.
- Use appropriate personal protective equipment (PPE) and follow all company safety policies and procedures.
- Candidate must pass a drug screening as part of the pre-employment process

LOCATIONS: This is a remote position. However, candidate must live in the contiguous US.

SCHEDULE & TRAVEL:

- Typical schedule is M-F normal business hours, however, schedule flexibility is required, as some customer activities may require shift change to accommodate site needs.
- Domestic travel is estimated at 50% to support site surveys, installation, and testing at FAA facilities.

SECURITY: Candidate must be a United States citizen or a resident alien who has been lawfully admitted for permanent residence in accordance with the Alien Registration policy established by the U.S. Immigration and Customs Enforcement. Candidates must also be able to submit to and complete the appropriate background investigation and security via the Standard Form (SF) 85P, Questionnaire for Public Trust Positions.

BENEFITS:

- Comprehensive medical, optical, and dental Insurance for employees and dependents
- Paid time off
- (11) company holidays
- Matching 401K
- Remote work flexibility
- Life insurance
- AD&D insurance for employees
- Tuition Assistance
- Flexible Spending
- Health Savings Account
- Bereavement Leave for an immediate family member