Senior Engineer

Have a passion for aviation? Enjoy problem-solving? Constellation Aviation Solutions (CAS) has a program that combines the two. CAS is a prime support contractor to the FAA Runway Status Lights Systems (RWSL) program office. The Runway Status Lights 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 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 Engineer, you will support all aspects of the RWSL Sustainment Program's systems engineering task activities involving the design and development, test, installation, implementation, integration, and transition of systems, components, and equipment. By doing so, this will enhance the transition from development to the implementation team more smoothly.

Senior Engineer is responsible for engineering efforts for the development projects on the sustainment program. Each project is focused on a specific RWSL sub-system / component. The candidate will be responsible for working with subcontractor(s) and facilitating the System Requirements Review (SRR), Preliminary Design Review (PDR), through to the Critical Design Review (CDR). This also includes engineering efforts to integrate new components into the RWLS.

Integration includes physical installation, interconnection, configuration, networking and Security, and Software modifications provided by the subcontractor. The candidate will be a member of the RWSL team managing and maintaining the master Verification Requirements Traceability Matrix (VRTM) which includes allocating requirements appropriately to each of the development projects. All system integration and testing will be performed at the FAA's RWSL lab facility in Oklahoma City, OK.

RESPONSIBILITIES:

(a) Coordinate with subcontractor to develop system designs to reflect system requirements. Facilitate SRRs, PDRs, and CDRs with the subcontractor.

(b) Manage and track technical and program requirements. Develop and maintain the various VRTMs.

(c) Allocation of requirements among developmental systems, subsystems, modules, and non-developmental/commercial components.

(d) Develop system test plans and provide support to second level engineering for system tests utilizing these plans.

(e) Support second level engineering in developing and conducting engineering studies for qualifying replacement components in the RWSL System.

(f) Support second level engineering to Integrate replacement components into the RWSL System, develop configuration requirements and procedures.

(g) Revise system documentation such as System Software Documents (SDP, SRS, SDD, etc.) Interface documents (IDD, ICD, etc.) as required.

(h) Perform technical analyses related to hardware/software design, system interfaces, hardware/software logic, hardware/software maintenance, and address alternatives to resolve any issues, and recommend alternative design features to satisfy technical issues and concerns related to cost and schedule.

(i) Provide recommendations on configuration management of RWSL sustainment configurable items.

QUALIFICATIONS:

- Must hold a Bachelor's degree
- Must have a minimum of 20 years' experience in a position with similar responsibilities
- Must be able to read, write, and speak English fluently
- Must be proficient in MS Office products (Project, SharePoint portals, and Teams) and Jira
- Experience using AutoCADD is beneficial
- Candidate must be able to pass a drug screening as part of the Pre-employment process

LOCATION: This position is remote.

TRAVEL: It is estimated this position will travel **50%** within the U.S.

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
- (10) company holidays
- Matching 401K
- Flexible Spending Account
- Remote work flexibility
- Life insurance
- AD&D insurance for employees
- Tuition Assistance
- Bereavement Leave for an immediate family member