



Title: Systems Engineer Position ID: 2026-0009	Type Position: Full Time Level: PL3 or PL4
Primary Location: To be determined	Travel Required: 10% CONUS and HI
Alternate Location: Home office anywhere in USA	Contact: Technical: taxberg@stephensonstellar.org (Tom Axberg) Human Resource: bmoyer@stephensonstellar.org (Barb Moyer)

Company Background: Stephenson Stellar Corporation (Stellar) is a nonprofit research and development organization focused on assuring our nation remains a global leader in the Space Domain. Our mission is to foster technological innovation and provide secure space-based solutions.

Stellar is an equal opportunity employer, and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, age, disability status, protected veteran status, or any other characteristic protected by law.

Additional information at: www.stephensonstellar.org

Job Description: In this position you will serve as a Systems Engineer for the Mission Performance & Security Systems Directorate. This role requires proven experience supporting large-scale Department of Defense (DoD) sensing and communications systems and understanding how complex operational systems are conceived, architected, integrated, and fielded - from requirements development through architecture modeling, integration, and operational deployment. The candidate will work across multidisciplinary teams to design, analyze, and integrate mission-critical sensing, data processing, and communication capabilities supporting national defense missions. The candidate will translate mission needs into technical architectures and develop model-based system representations using Cameo Systems Modeler, ensuring traceability between mission requirements, system design, and operational capabilities. This role requires a professional candidate who is comfortable working at the intersection of mission operations, system architecture, and technical implementation, with the ability to communicate effectively with engineers, program leadership, and operational stakeholders. Additional responsibilities include: (1) Develop and maintain system architectures and interface definitions for complex sensing and communications systems; (2) Use Model-Based Systems Engineering (MBSE) methodologies with Cameo Systems Modeler to develop system models, including requirements, behaviors, interfaces, and architecture views; (3) Translate mission and operational requirements into system-level technical specifications and model artifacts; (4) Support end-to-end systems engineering lifecycle activities, including requirements management, architecture development, integration, verification, and validation; (5) Collaborate with hardware, software, networking, and data engineering teams to ensure coherent system integration; (6) Conduct trade studies, performance analysis, and technical risk assessments to inform program decisions; (7) Support integration of distributed sensing platforms, data pipelines, and communication networks; (8) Produce and maintain systems engineering documentation, including architecture diagrams, interface control documents (ICDs), and technical baselines derived from MBSE models; (9) Ensure systems align with DoD interoperability, cybersecurity, and data standards; (10) Proactively engage subject matter experts across relevant domains to elicit and formalize architectural knowledge into model artifacts; and (11) Identify modeling gaps and drive resolution with stakeholders rather than waiting for fully scoped inputs.

Requirements

Clearance: Active U.S. Secret clearance with ability to obtain TS/SCI

Citizenship: Candidate must be a United States citizen.

Education:

- BS in Systems Engineering, Electrical Engineering, Computer Engineering, Aerospace Engineering or a related technical field.
- An advanced degree is preferred.

Experience:

- 6-12 years of experience supporting Department of Defense (DoD) programs, plus hands-on experience using Cameo Systems Modeler (or closely related SysML modeling tools) to develop system architecture, requirements traceability and system-of-systems models.

Required Skills:

- Demonstrated experience working on large-scale sensing, surveillance, or communications-based systems.
- Experience supporting space, airborne, or distributed sensor architectures.
- Demonstrated experience with Model-Based Systems Engineering (MBSE).
- Hands-on experience using Cameo Systems Modeler (or closely related SysML modeling tools) to develop system architectures, requirements traceability, and system-of-systems models.
- Demonstrated ability to work independently across organizational boundaries and drive consensus among diverse stakeholder groups.
- Familiarity with DoD data interoperability frameworks, mission architectures, or enterprise data standards.
- Experience with systems engineering lifecycle processes, including requirements development, architecture definition, integration, and testing.
- Experience working within system-of-systems environments involving multiple platforms and data sources.
- Strong ability to communicate complex technical concepts across engineering teams, program management, and mission stakeholders.

Desired Skills:

- Experience supporting integration events, field demonstrations, or operational exercises.
- Familiarity with real-time data exchange, communications protocols, or distributed data systems.
- Prior experience working with multi-domain sensing or command-and-control systems.
- Experience modeling system-of-systems architectures involving multiple security domains.
- Familiarity with DoD cross-domain solutions or multi-level security concepts.