



Systems Thinking & Solutions

A Professional Services Company

Systems Engineering | Technical Support | Program Management

UEI # KK8NKCXA3YK8 | CAGE 73AW2

<https://thinksts.com> • (571) 353 -1989 • ContactUs@ThinkSTS.com

Systems Engineer

Position Category: Full Time

Location: Remote (Washington, DC)

Security Clearance: Must be a U.S. Citizen for eligibility

Company Profile

Systems Thinking & Solutions (STS) is a technical services company. Our mission is to apply scientific methods to advance the capabilities and utility of engineered systems. Our core capabilities include Systems Engineering and Technical services, system architecture, system integration, modeling and simulation, IT support services, and technical program management. We are a Virginia corporation conveniently located near Washington, DC.

Position Overview

We are seeking a highly motivated Systems Engineer to join our team. In this role, you will be instrumental in leveraging Model-Based Systems Engineering (MBSE) methodologies to design, document, and analyze complex software applications and business processes. This position will support programs at the Defense Advanced Research Projects Agency (DARPA) and other Department of Defense (DoD) agencies. The ideal candidate will use MBSE tools (Innoslate, Cameo, Sparx, Genesys) to create architecture, simulate designs, and identify opportunities for improvement. If you are passionate about systems engineering and enjoy challenging environments, we encourage you to apply!

Core Responsibilities

- Utilize MBSE tools (Innoslate, Cameo, Sparx, Genesys) to create and maintain comprehensive system models (SysML, UML, BPMN2) for software applications and business processes.
- Collaborate with cross-functional teams, including software developers, testers, and business analysts.
- Develop and manage system architectures, including structural, behavioral, and parametric views.
- Implement and maintain a robust MBSE environment and associated workflows.
- Capture, analyze, and document system requirements using MBSE principles.
- Allocate requirements to system components and ensure traceability throughout the development lifecycle.
- Perform requirements verification and validation, conduct requirement traceability analysis, impact analysis, and trade studies using MBSE models.
- Develop, implement, and analyze mathematical and computational models to simulate real-world systems.
- Perform system simulations and analyses to evaluate performance, reliability, and other critical parameters.
- Generate documentation from system models to support development, testing, and maintenance activities.



Systems Thinking & Solutions

A Professional Services Company

Systems Engineering | Technical Support | Program Management

UEI # KK8NKCXA3YK8 | CAGE 73AW2

<https://thinksts.com> • (571) 353 -1989 • ContactUs@ThinkSTS.com

Requirements

- Proficiency using Innoslate.
- Proficiency using system modeling languages, and architecture frameworks.
- Basic knowledge of the Systems Engineering Body of Knowledge and Model Based Systems Engineering.
- Bachelor's or master's degree in systems engineering, Computer Science, or a related field.
- Strong understanding of requirements management, system architecture, and design principles.
- Excellent analytical and problem-solving skills.
- Strong communication and collaboration skills.

Qualifications

- Bachelor's degree in systems engineering, Computer Science, Software Engineering, a related field, or equivalent practical experience.
- Must be a U.S. citizen.
- Ability to obtain security clearance.

Benefits

- Competitive salary based on experience.
- Comprehensive health, dental, and vision insurance.
- Retirement Plans: Safe Harbor 401(k), Profit Sharing, Cash Balance.
- Professional development and certification reimbursement.
- Paid time off and federal holidays.

STS is an Equal Opportunity Employer