

CAREER OPPORTUNITY

Job Title: Principal Systems Engineer
Employment: Full-Time, Exempt
Reports to: Troy Peterson, Vice President
Travel: Limited
Location: Metro Detroit



Velocity Collaboration Center
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ABOUT SYSTEM STRATEGY, INC

Driven to revolutionize digital innovation, System Strategy, Inc. (SSI) helps clients conceptualize and design for the deep interdependencies inherent in today's cyber-physical systems. We balance the art and science of systems engineering to creatively and digitally transform design and development. We provide leading expertise in digital transformation, systems engineering, analytics, and management consulting. SSI is a privately held professional services firm headquartered in Metro Detroit. Our engagements include small to Fortune 500 companies and the government.

POSITION OVERVIEW

The Principal Systems Engineer will provide subject matter expertise in systems engineering and analysis for complex systems development. Collaborate and build trusting relationships with clients through delivery and thought leadership. Lead team activities across life cycle systems engineering processes from stakeholder needs through validation. Analyzes complex systems, processes, and organizational architectures to improve development activities and outcomes. Assesses current state and identifies essential elements to provide high-value solutions. Pioneers innovative methods and leads integration and tailoring to improve program performance. Models complex systems and leads the evolution of model based systems engineering (MBSE) methods. Performs literature reviews and captures Subject Matter Expert (SME) knowledge in models using relevant modeling language(s) (SysML, UML, BPMN, Graphs et al.). Facilitates shared human understanding and organizational learning through proficient communication, professional development, publishing, teaching, and mentoring.

INITIAL ENGAGEMENT RESPONSIBILITIES

- Apply Systems Engineering knowledge and latest model based methods to aid autonomous vehicle development
- Help propagate model based methods as a model based systems engineering expert and catalyst
- Help client refine current use of SysML and modeling methods. Create and incorporate plans, standards and profiles
- Capture knowledge of team members in system models including assumptions, rationale, requirements and decisions
- Integrate disparate modeling efforts to better predict system performance. Facilitate integration and/or federation of modeling activities
- Lead change management to help clients transform current practices to model based methods. Assess tool set requirements and fitness
- Mentor, train and collaborate closely with team members in sharing best practices and intellectual property
- Articulate complex concepts and methods clearly to peers, teams and executives
- Generate reports, capability briefings, plans and other contractually required products

QUALIFICATIONS

Basic Qualifications/Requirements

- 15+ years engineering and technical leadership
- Bachelor's degree in engineering or another STEM discipline
- US citizenship and ability to obtain and maintain a security clearance
- Excellent analytical and synthetical problem solving skills
- Proficient written and oral communicator with proven ability to influence key outcomes
- Knowledgeable in development and acquisition processes (Automotive, Defense or other)
- Exceptional computer skills and experienced with modeling language(s) such as UML, SysML and BPMN

Desired Qualifications

- Automotive or robotic control systems experience, modeling of system behaviors and functional safety
- Object Management Group (OMG) Certified Systems Modeling Professional (OCSMP)
- INCOSE Systems Engineering Professional Certification (ASEP, CSEP or ESEP)
- Previous use of engineering tools such as NoMagic MagicDraw, Teamcenter, DOORs and others

HOW TO APPLY

Please send resumes and cover letters to:

- Troy Peterson, Vice President System Strategy, Inc. – tpeterson@systemxi.com
- Selected applicants will be subject to a security investigation