

Job Title: Model Based Systems Engineer**Location:** Schriever Air Force Base, CO**Clearance:** Secret**Level:** Mid-Career**Position Description:**

The selected applicant shall provide modeling and engineering support to the MDA for Ballistic Missile Defense System (BMDS) development as part of enterprise architecture. This position provides Model-based systems engineering (MBSE) support to enhance the Missile Defense Agency (MDA) Modeling and Simulation (M&S) enterprise architecture. The MBSE modeler works with MDA engineers to capture system behavior and structure, and to explore potential improvements to the system. The position participates in the development of a system-of-systems architecture model, ensuring M&S requirements drive an integrated (System-level) M&S capability.

Primary Duties and Responsibilities:

- Perform analysis at all levels of total system product to include: concept, design, fabrication, test, installation, operation, maintenance, and disposal
- Ensure the logical and systematic conversion of customer or product requirements into total systems solutions that acknowledge technical, schedule, and cost constraints
- Perform functional analysis, timeline analysis, detail trade studies, requirements allocation and interface definition studies
- Support analysis of BMD governance documents for periodic updates

Minimum Requirements:

- A Bachelor's degree in Engineering, Computer Science, or related technical discipline.
- Five (5) to eight (8) years directly related experience.
- Previous experience in any of the BMDS subcomponents activities.
- This position requires the selected candidate have an active DoD Secret clearance with the ability to obtain a TS/SCI clearance.

Job Requirements

- Demonstrated understanding of systems engineering experience with M&S systems and their uses
- Model Based Systems Engineer (MBSE) certifications (e.g. OMG, INCOSE)
- Practical experience with MBSE (SysML) (not just UML)
- Experience with MBSE tools (eg EA Sparx, IBM Rhapsody, Magic Draw) integrated with requirements management tools (eg DOORs) and CM tools (eg SVN, Clearcase)
- Prior experience supporting development of technical publications
- Excellent problem-solving skills
- Ability to work independently and as part of a group

- Ability to effectively participate and collaborate with functionally and geographically diverse teams of engineering professionals with differing perspectives, skills, and backgrounds
- Ability to effectively communicate complex ideas to non-technical stakeholders and non-MBSE trained people, both in written and spoken forms
- Ability to provide significant contribution in the areas of creative thinking, problem solving, analytical thinking, strategic thinking and out-of-the-box thinking
- Energetic, motivated, self-starting

Preferred Capabilities/Experience

- Understanding of the BMD system implementation
- Experience working with systems-of-systems or family-of-systems, preferably in a DoD context
- Experience in the use and analysis of M&S data for complex systems, preferable for the BMDS
- Ability to lead functionally and geographically dispersed teams of engineering professionals with differing perspectives, skills, and backgrounds

Security Clearance Requirements:

- Position requires that candidate possess an active SECRET security clearance in order to access classified information. Inability to maintain a security clearance will result in candidate being ineligible to support this position.