

Vehicle Systems Architect in Sterling Heights, Michigan, United States | Engineering & Technology at BAE Systems

Job Summary

Full-Time / Part-Time

Full-Time

Clearance Level - Must Currently Possess

None

ITAR: U.S Citizen or Green Card Required

Yes

Clearance Level - Must Be Able to Obtain

Confidential

Job Description

BAE Systems is a leader in the defense industry. We currently have a need for a Vehicle Systems Architect to support our combat vehicle programs.

Note: Any Combat Vehicles Engineering Site is an acceptable work location: Sterling Heights, MI (preferred); Minneapolis, MN; San Jose, CA; Phoenix, AZ; or York, PA.

The Vehicle Systems Architect Lead will serve as a core technical subject matter expert on Mobile Protected Firepower (MPF) vehicle architecture using a model based systems engineering approach. The Vehicle Systems Architect Lead will lead development of technical solutions and must be familiar with and contribute to management, staffing, schedule, and cost solutions. In addition, the vehicle architect will provide guidance to Mobile Protected Firepower (MPF) architecture team on the product structure and the system architectural models from vehicle concept through detailed design, integration, and test phases.

Typical Education & Experience

Typically a Bachelor's Degree and 8 years work experience or equivalent experience

Required Skills and Education

Required Education:

Must have bachelor degree in engineering (or equivalent experience) in a relevant field from an accredited university with a minimum of:

06 + Years with MS

04 + Years with PhD

- Have systems engineering experience/ knowledge necessary to perform requirements analysis, derivation and allocation, and translate requirements to viable concepts design solutions within applicable constraints.
- Experience with Systems Modeling Language (SysML) methodology and tools, preferably MagicDraw.
- Experience developing architecture concepts and evaluating alternatives.
- Have experience and knowledge of computer systems and processors, logic devices, interfaces, and high level understanding of operating systems.
- Develop and manage the concept product structures and the associated size, weight, power, cooling and cost (SWaP-CC) data, ensuring consistency across concepts.
- Balance system design considering system usage concept of operations (CONOPS), performance, constraints, and logistics concerns.
- Plan, conduct and document complex trade studies.
- Balance size, weight, power and cost of system.
- Identify and manage related technical and program risks.
- Generate system design concept descriptions and capability assessments per the program statement of work (SOW).
- Excellent oral and written communication skills.

Preferred Skills and Education

- Experience with military vehicle systems.
- Knowledge of system engineering development and integration methodologies including requirement engineering, configuration management, technical baseline management, cost estimating and analysis, and decision support methodologies.
- Knowledge and understanding of project management methodologies, including scope, cost and schedule, and resource management, including Earned Value Management.
- Experience with Controller Area Network (CAN) Bus strategies and implementation, and other relevant networks and protocols.
- Experience with Systems Modeling Language (SysML) methodology and tools.
- Familiarity with Department of Defense Architecture (DoDAF)
- Familiarity with VICTORY architecture.
- Knowledge and understanding of DoD cybersecurity certification requirements, processes and standards.
- Experience establishing projects in accordance with work breakdown structures as defined in MIL-STD-881.
- Logical architecture experience, including development of use cases
- Exposure to hardware/software integration.
- Leadership and mentoring of younger engineers.
- Have and maintain INCOSE Certified Systems Engineering Professional (CSEP) certification.

About BAE Systems Platforms & Services

BAE Systems is a premier global defense and security company with approximately 90,000 employees delivering a full range of products and services for air, land and naval forces, as well as advanced electronics, security, information technology solutions and customer support and services. With headquarters in Arlington

professionals at more than 30 locations worldwide. Platform and Services is a global leader in the design, development, production, and service support of armored combat vehicles, major and minor caliber naval guns and missile launchers, canisters, artillery systems, and intelligent munitions. People are the greatest asset in any Company.

BAE Systems is committed to hiring and retaining a diverse workforce. We are proud to be an Equal Opportunity Employer, making decisions without regard to race, color, religion, sex, sexual orientation, gender identity, gender expression, marital status, national origin, age, veteran status, disability, or any other protected class.

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