

Requisition No.: 2025-ME-05

Need Date: Immediate

Job Family: Mechanical Engineer – Mid Level

Position Type: Full Time Position

Exempt/Non-Exempt Classification: Exempt

Security Clearance Requirement: The candidate must be clearable to DoD Secret Level.

Location: The candidate will work at multiple locations in and about Manassas, Virginia

Education:

Bachelor's degree (or advanced degree) in Mechanical Engineering required from an accredited university.

Experience Level:

Mid-level with 3 – 6 years of experience.

Travel:

Required annual travel less than 10%

Overview:

This is a great opportunity for an experienced Mechanical Engineer to design military quality components, products, and systems. Program activities are associated with submarine acoustic programs. Our products are typically packaged commercial items and/or custom designed components fitted into ruggedized units and larger cabinet enclosures. All products are required to meet Navy performance and environmental requirements. Candidate must be self-motivated with a strong work ethic and interpersonal skills. Sedna offers competitive salaries and benefits, but most importantly, career advancement opportunities. At Sedna, we highly value every employee, we pride ourselves at being extremely productive and delivering high quality products to our customers.

Job Responsibilities:

- Conceptual design, research and analysis of components to support electro-mechanical assemblies and test fixtures
- Develop, review and update engineering and detailed drawing (level three) assembly and fabricated item design drawings using 3-D CAD tools in support of hardware product definition
- Create and maintain product Bills of Material (BOM) using Enterprise Resource Planning (ERP) tool
- Ensure design compliance with system, safety, quality requirements; Perform trade studies on material selection and integration

Sedna Digital Solutions, LLC • 10611 Balls Ford Road Suite 300 • Manassas, VA 20109
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- Synthesize and evaluate design solutions to meet system requirements and evolving product maturation
- Maintain product baseline through configuration management of established engineering change control process
- Documentation and drawings shall be comprised of but not limited to: Assembly and Fabricated Item drawings, family trees, associated lists, Interface Control Document (ICD), and Source Control Drawings (SCD)
- Work across and support a variety of functional groups across product life cycle including program management, systems, software and electrical engineering, material management, manufacturing, and test
- Lead creation and delivery of product Technical Data Package (TDP) to customer
- Support product acceptance testing such as Performance Verification Testing (PVT), Environmental EMI/EMC Qualification (EQT), and Factory Acceptance Testing (FAT)
- Support design and develop of hardware test beds in support of acceptance testing
- Perform submarine fleet support of Sedna products as required – some travel may be required

Basic Qualifications:

- Typical education and experience or equivalent combination: Bachelor's; 3-6 years of related professional experience
- Strong proficiency in 3-D Computer aided Design (CAD) software (Preferably Solidworks) and Product Data Management (PDM) systems
- Strong knowledge and experience with Geometric Design and Tolerancing (GD&T)
- Knowledge of applicable ASME Y14 drawing and drafting standards (e.g., .5, .100, .24, .35, .34 or as applicable)
- Strong proficiency in the use of Microsoft products – Outlook, Excel, Power Point, Word
- Strong proficiency with technical, MIL-SPEC standards, and manufacturing capabilities
- Basic understanding for Design to unit Cost (DTUC), Design to Unit Production Cost (DTUPC), Design for Assembly (DFA) and Design for Manufacturing (DFM)
- Ability to accomplish tasks in a timely manner both in groups and independently
- Strong communication and interpersonal skills
- Knowledge of material science and manufacturing processes
- Experience with component selection and serviceability / maintenance
- Excellent problem-solving skills and attention to details
- Highly motivated and organized. Able to work multiple tasks concurrently, performing tasks both independently and collaboratively

Desired Qualifications:

- Navy or other DoD product development experience in designing to meet environmental qualification requirements e.g., shock, vibration, structure and airborne noise temperature and humidity

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- Experience with Acoustic Rapid COTS Insertion (ARCI) systems
- Finite Element Analysis (FEA) and Computational Fluid Dynamics (CFD) training and/or working experience
- ERP Deltek Costpoint application experience
- Experience with cable design, manufacturing and installation

All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, pregnancy, sexual orientation, gender identity, national origin, age, protected veteran status, or disability status.