

STRUCTURAL ANALYSIS ENGINEER

L-3 Communications (a Fortune 500 company) is a leading provider of Intelligence, Surveillance and Reconnaissance (ISR) systems and products, secure communication systems, aircraft modernization, training and government services, and is a merchant supplier of a broad array of high technology products.

ESSCO, a division of L-3, is currently seeking a talented **Structural Analysis Engineer** for our radome and reflector manufacturing product lines at our Ayer, MA facility. ESSCO is the world's premier designer and manufacturer of ground-based radomes, including composite and metal space frame radomes, shipboard and airborne radomes, as well as precision reflectors and antenna products. In addition, as a custom vehicle builder and systems integrator, ESSCO also specializes in turnkey mobile solutions and cutting edge communications platforms for commercial broadcasters, as well as various federal, state and local government agencies.

Responsibilities

This position is Responsible for creating complete Structural Analysis (SA), Finite Element Analysis (FEA), Environmental, Thermal and Model Analysis reports in support of Requests for Quotations (RFQ), Proposals, on-going jobs and Corrective Action Reports (CARs). The preferred candidate will:

- Create and present SA and FEA information for Preliminary Design Reviews (PDR), Critical Design Reviews (CDR), and Technical Interchange Meetings (TIM) and to prepare Customer Acceptance Test Procedures (ATP).
- Support the design engineering, quality and customer service staff by reviewing and analyzing designs to ensure requirements are met and structurally stable under required or anticipated loading conditions.
- Complete assigned SA, FEA and related projects on time and within budget and for adherence to engineering standards including Item Master, bills of materials (BOM), modeling architecture, software libraries, task lists and related procedures.
- Work closely with other internal company disciplines to identify, troubleshoot and monitor all aspects of a program(s) to ensure that contract specifications and delivery schedule are met on time and within budget. Provide weekly reports on project status.
- Assist in maintaining and improving engineering standards, procedures, reference libraries, Inventor™ 3-D models, reference BOMs and Task Lists.
- Other duties as assigned.

Education & Experience

- Bachelor's degree in Mechanical Engineering or related field from an accredited institution required. Master's degree is highly desirable. Professional Engineering (PE) license preferred, but not required.
- Minimum five years of mechanical design and structural analysis, finite element analysis, environmental, thermal and model analysis experience is required.
- Experience with the following is required:
 - design software platforms such as SolidWorks™, Inventor™, Pro-E, CATIA, AutoCAD™, etc. is required, as well as experience with large and complex CAD models.

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- revision control process and products, such as Autodesk Vault™ or PDMWorks™, and
- analysis software including ANSYS, COSMOS Works, and ALGOR.
- Must be able to generate professional SA, FEA, Environmental, Thermal and Modal Analysis reports and Microsoft Power Point presentations.
- Experience with Computational Fluid Dynamic (CFD) Analysis, Environmental loading (Solar and Wind), Over-The-Road (OTR) and Aircraft loading forces, is highly desirable.
- Must work well in a team environment and able to meet challenging deadlines.
- Excellent computer skills, particularly understanding of Windows™ interface, navigating a network, file organization, making back-ups, email literacy, Excel™ and spreadsheet literacy.
- Understanding of Materials Requirement Planning (MRP) systems is required, and an understanding of Visual™ operating system is highly desirable.
- Must have sound engineering judgment; be capable of making independent technical decisions; have exceptional attention to detail; possess outstanding time management skills; and firm understanding of document and revision control.
- Excellent written and verbal communication skills are essential.

L-3 ESSCO is an Equal Opportunity/Affirmative Action Employer and offers a competitive salary, benefits program, and a friendly business casual work environment. Modest relocation assistance may be available.

Interested candidates should forward a resume and salary requirements to:

L-3 ESSCO, Inc.
90 Nemco Way
Ayer, MA 01432
ph: (978) 568-5100
fax: (978) 772-7555
email : ESSCOCareers@L-3com.com