



Reliability Engineer – Lorton, VA

The Reliability Engineer will perform reliability assessments of fielded hardware to include failure trending, failure modes and effects, criticality analysis, and software reliability; assess analysis models, develop and implement new concepts, and determine feasibility of predictions to include required resource allocations.

Duties and responsibilities:

- Analyze preliminary engineering design concepts to recommended design or test methods to achieve customer specified operational reliability using reliability-engineering techniques.
- Analyze projected product utilization and calculates cumulative effect on system reliability.
- Simulate electrical inputs, transient conditions, temperature, stress and other factors to develop computer models and analyzes and adjusts design to predict and improve system reliability.
- Review engineering specifications and drawings, propose design modifications to improve reliability within cost and other performance requirements.
- Prepare reports, charts and diagrams to disclose results and highlight areas for further investigation.
- Facilitate root cause analysis and provide recommendations for improvement based on thorough analysis and economic evaluation.
- Perform statistical analysis of equipment reliability and identify opportunities for improvement.
- Conduct reliability analyses of system assemblies and their major components. Analyze failure rates, failure modes, and failure mechanisms.
- Develop and implement reliability improvement plans for various programs.
- Develop plans and strategies for implementing new concepts for reliability utilized in logistics support functions (Maintenance Planning, ECP development and evaluation, performance and failure trend analysis).
- Develop and evaluate test plans and testing requirements
- Provide leadership in the completion and documentation of these tests.
- Evaluate and develop proposed engineering changes.
- Monitor results of equipment acceptance testing.

Education and/or Experience:

- Bachelor's Degree or higher from accredited college or university in Industrial, Mechanical or Systems Engineering; Mathematics or related technical statistical analysis field. Combination of education and experience may be substituted.
- 4-6 years experience performing reliability assessments of fielded hardware.
- Experience with the development and implementation of reliability analysis models including predictions, failure modes, and criticality analysis.
- Excellent writing, presentation and verbal skills. Report preparation and technical writing required.
- Ability to plan, organize, schedule and direct varied programs and tasks involved within the engineering department.
- Ability to read and interpret design specification and technical drawings.
- Experience with earned value management is a plus.
- Experience with Modeling and Simulation is a plus.
- Independently develop and document engineering analysis reports, plans and procedures.

Computer Skills:

- Proficient in Microsoft Excel, Word and Access.
- Experience with CAD and MS Project.

Clearances, Certificates, and Licenses required:

- Treasury BI
- Valid drivers license

Chenega Corporation is an EOE. AA/M/F/D/V. Native preference under PL 93-638.

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