



Measurement Analysis Corporation

23850 Madison Street, Torrance, ca 90505

Senior Engineer: Reliability / Systems Engineer

Position Description

Conducts reliability analysis for components, elements, segments and systems. Produces diagrams, charts, drawings, analysis, and reports for establishing reliability risks and provides recommendations for improvements. Conducts analysis to determine required reliability while considering cost limitations, equipment up/down time, repair/replacement costs, weight, size, and power. Includes interfacing with engineering staff to generate reliability predictions for new and existing designs. Prepare and deliver reliability data, documentation, and reports. Support milestone reviews, including Design Concept Reviews (DCR), Preliminary Design Reviews (PDR), Critical Design Reviews (CDR) and Acceptance Reviews (AR). Participate as a member of an independent verification and validation (IV&V) team. Proficiency in the following is desired:

- Reliability software tools (RELEX, PRISM, SAPHIRE, Minitab, etc.)
- Reliability Block Diagrams (RBD's)
- Failure modes, effects, and criticality analysis (FMECA's)
- Failure data collection, review, analysis, reporting
- Proficient with Probabilistic Risk Assessment (PRA) methodologies

As a Systems Engineer, performs requirements definition, analysis and verification for complex systems involving a wide range engineering technologies. Provides system engineering assessments in support of milestone reviews, including Design Concept Reviews (DCR), Preliminary Design Reviews (PDR), Critical Design Reviews (CDR) and Acceptance Reviews (AR). Prepare and present technical material in support of system/segment development and verification activities. Ten plus years of product development experience and ability to interface across a wide spectrum of technical and management staff preferred. Participate as a member of an independent verification and validation (IV&V) team.

U.S. citizenship required.

Experience

- 10+ years combined Reliability and Systems Engineering

Education

- Degree in Engineering, Mathematics, or Physics
- ASQ CRE certification desired

Contact

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