

# Job Description

## Senior Electrical Engineer

Melbourne-Mnemonics-Inc.

### US CITIZENSHIP REQUIRED

**Must be able to obtain and maintain a DOD SECRET CLEARANCE**

### SUMMARY

The Senior Electrical Engineer designs and implements advanced analog/digital embedded electronic systems to create products meeting Mnemonics marketing objectives. This engineer participates in initial product conception; formulation of functional and performance requirements; project scheduling and resource allocation; software/hardware design; implementation; hardware/software commissioning, integration, and debug; testing; and the transition to Manufacturing. The engineer is expected to conduct product development in accordance with Mnemonics quality, configuration management, and development life-cycle processes. This individual has the responsibility and authority to perform the assigned tasks listed below.

### ESSENTIAL DUTIES AND RESPONSIBILITIES

- Receive and understand communications, control, and general hardware/software requirements to be implemented in embedded systems.
- Create requirement flow down from higher level requirements.
- Provide time estimates for all activities.
- Design and document embedded hardware implementation to match requirements.
- Design and document RF hardware implementation to match requirements.
- Implement test cases and validate hardware.
- Work closely with Software, Electrical and Mechanical team members to ensure that new products meet all key product requirements.
- Responsible for participating in the quality management system initiatives and adhering to all requirements.
- Provide full product lifecycle support for legacy products including bug fixes and feature updates.
- Responsible for performing other related tasks deemed necessary by superiors.
- Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

### QUALIFICATIONS, EDUCATION AND EXPERIENCE

- Bachelor's Degree in Electrical Engineering (Master's desirable).
- 10+ years of experience in the design of advanced analog/digital electronic systems and technologies requiring schematic design, simulation, debug, test and verification at the component, board and system level including qualification to MIL-STD requirements.
- Experience desired in the design of RF circuits requiring schematic design, impedance matching, modeling, simulation, debug, test, and verification at the component board, and system level including qualification to MIL-STD requirements.
- Experience in DoD product development processes and qualification processes.
- Solid understanding of PCB layout and fabrication processes and experience in supervision of PCB layout, plane definition, and EMC optimization.

- Familiarity with use of requisite test equipment (e.g. logic analyzers, oscilloscopes, spectrum analyzers, function generators, power supplies, data acquisition and control systems).
- Ability to use and maintain legacy designs as well as troubleshoot component and system designs operating within an integrated system.
- Familiarity with Built-In-Test coverage analysis.
- Ability to develop implementation architectures from requirements documents or high-level specifications as well as communicate and work with multi-disciplined engineering.
- Experience with wireless communications systems, digital signal processing, and communication theory is desired.
- Due to the sensitivity of customer related requirements, U.S. Citizenship is required.
- All work to be performed on-site at Mnemonics.
- Excellent history working with cross functional teams.
- Excellent oral and written communication skills.

E-Verify Job Type-Full Time 9/80 work week Drug Free Workplace Salary: \$45-55 / hour

E.O.E: race, color, religion, gender, age, national origin, gender identity, individuals with disabilities, veteran status, protected veterans, or disable.

### **About Mnemonics, Inc.**

For over 46 years Mnemonics, Inc. has been a high technology supplier in the Aerospace and Defense, and Industrial markets. The corporation is committed to providing cost-effective products, solutions, and services that exceed our customer's expectations while continuously striving for technical superiority and quality.

Mnemonics, Inc. offers an environment where innovation and creativity are the keys to personal and corporate success. If you are looking for the small company environment, excellent salaries, comprehensive benefits; an exciting, and challenging future, then Mnemonics, Inc. invites you to apply.

Visit our website [www.Mnemonics-inc.com](http://www.Mnemonics-inc.com) fill out an application and voluntarily complete the Affirmative Action Form (AAP) / Self-Identification questionnaire.

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