

Senior Embedded Systems Engineer

Seeking a full-time Senior Embedded Systems Engineer to join our team in Albuquerque NM to assist in the support of product development of sensors and intranets in the areas of condition-based monitoring, situational awareness, signal intelligence, AI, safety, and embedded systems.

Requirements

Bachelor of Science in Electronics or Computer Engineering. A related field will be considered if the candidate has extensive experience with electronic/embedded systems.

Performance Expectations: (Results we expect accomplished in the first year)

- 1 Design and implement RTL and/or software for embedded devices and systems from requirements to prototype, production, and/or deployment
- 2 Design, develop, code, test, and debug embedded system software
- 3 Analyze and enhance efficiency, stability, and scalability of system resources
- 4 Interface with hardware design and development teams
- 5 Document design process and report systems results
- 6 Support customers in the integration and deployment of the system
- 7 May need to perform hardware design (schematic, PCB)

To accomplish the above the candidate should have the following

Success Patterns

- 1 Problem solving
- 2 Good managerial skills
- 3 Strong leadership skills
- 4 Responsible

5 Attention to planning and details

6 People skills

7 Good communication skills

Personal Characteristics

1 Strong desire to work with embedded hardware systems (embedded processors, FPGAs, other electronic systems)

2 Methodic in developing and following design and testing processes

3 A high aptitude for learning and adapting to new and quickly changing technologies

4 Creativity is important because the projects are diverse, but the purpose remains the same: to find a solution

5 Strong documentation and writing skills

Education/training requirements

1 Bachelor of Science in Electronics or Computer Engineering. A related field will be considered if the candidate has extensive experience with electronic/embedded systems.

Work Experience

1 Work experience with lab equipment (oscilloscope, multi-meters, etc.)

2 Strong experience in hands-on development and troubleshooting on embedded targets

3 Experience programming for microcontrollers and other applications

4 Familiarity with software configuration management tools, defect tracking tools, and peer reviews

5 Excellent knowledge of OS coding techniques, IP protocols, interfaces and hardware subsystems

6 Excellent knowledge of interface protocols such as UART, I2C, SPI and GPIO

7 Adequate knowledge of reading schematics and data sheets for components

8 Working knowledge of Verilog for synthesis and simulation. VHDL and System Verilog experience is a plus.

9 Working knowledge of FPGA design flow using LiberoSoC and Vivado

10 A strong ability to analyze and understand a system and communicate requirements in technical terms

11 Familiarity with schematic capture and PCB design tools (Cadence, Orcad) is a plus

12 Bitbucket and Jira experience are desired

Management Sciences conducts a pre-employment background review that includes checks of personal references, credit, law enforcement records, and employment/ education verifications.

Management Sciences is a federal contractor and participates in E-Verify for employment eligibility verification.

All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, disability, or veteran status and any other protected class under state or federal law.