Microelectronics Electrical Engineer

Perform a variety of Electrical Engineer assignments in planning and overseeing research, analysis, development, design, reverse engineering, manufacture, test, installation, operation and rapid prototyping and maintenance of microelectronics and components and generally as a member of a design, analysis, or review team.

Essential Responsibilities:

1. Support the testing, electrical and physical characterization, and failure analysis of microelectronics and microelectronic assemblies.

2. Support the research and development of new techniques and methods to assess trust and reliability of microelectronic.

3. Experience with devices and systems:

FPGAs; Advance nonvolatile memory packages; Solid State Drives; customer electronic assemblies; state of the art microprocessors

4. Provide support of analysis with knowledge and understanding of semiconductor physics, digital and analog design, communication protocols such as I2C, RS232, SPI, and hardware description languages such as Verilog and VHDL.

5. Support reverse engineering of devices for failure analysis and reliability.

6. Support rapid prototyping for components to provide test and analysis.

7. Establish and maintain a database as needed for tracking project status.

8. Develop, maintain and produce technical documentation.

9. Verify and comply with engineering documentation standards and test procedures

Minimum Requirements

Bachelor's degree in Engineering, Computer Science or related scientific field and 0-1 year of job-related experience or equivalent. Good communication and analytical skills; working knowledge of microelectronics, computer systems and integrated software application programs. Position may require travel. Position will require the ability to pass and maintain a Security Clearance. U.S. Citizenship is required to meet clearance requirement.