Requirements for Radiation Test Engineer

About Scientic, Inc.

Scientic, Inc. is a VA-Certified, Veteran-Owned Small Business headquartered in Huntsville, AL specializing in nuclear and space radiation effects system survivability, analysis, verification and testing. Scientic provides full-service science and engineering solutions to complex problems facing national defense and aerospace programs supporting both government and prime contractors. Our demonstrated experience extends from research and development through production and qualification. We study environment induced failures; explore new concepts and theories; execute and interpret environmental models; develop new technology designs and materials; and collaborate with government, industry, and academia to implement solutions for our customers. We are currently looking for an Entry Level Electrical Engineer to support our customers within the Strategic Microelectronics Division at Naval Surface Warfare Center - Crane.

Job Description

Scientic is seeking an entry/early-career level Electrical Engineer I who is a respected, results-oriented individual with experience working in team and individual environments. Desired experience: Analog and digital device and circuit design experience using industry standard design and layout tools; knowledge of modeling and simulation tools such as SPICE and TCAD; and hands on experience with formal problem solving and failure analysis tools and techniques. This position will allow the candidate to gain knowledge of semiconductor physics, radiation effects on semiconductor devices to include knowledge of radiation effects (TID, ELDRS, SEE, etc.) and experience using radiation simulators.

Education:

BS or MS Electrical Engineering (or Electrical Engineering Technology) with experience with 2-5 years' experience.

General Skills:

Perform design, development, and review tasks with close supervision.

Design, development, and simulation of test circuits for characterization and evaluation of microelectronic components.

Design and development of printed circuit boards.

Design and development of automated test programs.

Data collection on test components and data reviews performed by others.

Complete portions or sections of analysis and design reviews.

Assist in the preparation of reports and correspondence.

Track and maintain project development status.

Develop, maintain and produce technical documentation and system/subsystem specifications.

Interface with customers in design reviews and technical working group meetings to comply with requirements and specifications.

Verify and comply with engineering documentation standards and test procedures.

Minimum Requirements:

Experience with lab test equipment such as oscilloscopes, meters, and analyzers

Excellent problem-solving, communication, and interpersonal skills

Motivated and creative with the ability to work effectively across several different functional areas in a collaborative environment

Well organized and able to handle multiple projects

Ability to be a team player and receive mentoring from senior engineers and leadership

Aptitude for solving technical problems and creating customer solutions

Understanding of concepts, theories, and methods related to the composition, structure, and properties of microelectronics

Must be able to obtain and maintain an active Secret clearance (Note: U.S. Citizenship is required to obtain a clearance) - Interim Clearance required to start

Preferred Qualifications:

Microelectronic component test experience

Knowledge of Electronic Design Automation (EDA) tools such as Altium, Eagle, LTSPICE, etc.

Some programming experience with Python, C, C++, VisualBasic, git, or Labview.

Basic analog or design knowledge of circuit boards or ASICs.

Understanding of noise and repeatable test measurements.

Knowledge and understanding of microelectronic fabrication processes and techniques.

Active Secret Clearance

Primary Job Location: Crane, IN

Job Posting: 5/16/2025

Position Type: Full-Time/Regular

Travel Requirements: 10%

Security Requirements: Candidate MUST be a U.S. Citizen and possess (and be able to maintain) a Final Secret Clearance or meet the eligibility to obtain (and maintain) a Secret clearance.

Closing Date: 7/16/2025

Scientic is an Equal Opportunity/Affirmative Action Employer, M/F/Disability/Veteran.

Scientic believes in recognizing employees' worth by offering competitive salaries and benefits, including health, dental, and vision insurance, matching 401(k) contributions, educational reimbursement, and much more.