

# Microelectronic/PC Board Technician: Sr. Lead Microelectronic/PC Board Technician

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**MICROELECTRONIC TECHNICIAN:** Performs a variety of duties to support the research and development of new microelectronic, opto-electronic, micro-electromechanical and sensor manufacturing processes, devices, components, or systems, semiconductors, semiconductor-based integrated analog or digital circuits, micro-electromechanical systems, sensors systems and related technologies. Develops and applies inspection and test procedures for micro-components and micro-systems.

**PC BOARD DESIGN:** Prepares working plans, detailed drawings, and completed mechanical or electrical drawings of printed circuit (PC) board components and assemblies from notes, verbal instructions, and rough or detailed sketches for engineering or manufacturing purposes. Makes engineering computations, write specifications, and make adjustments in drawings and specifications; verifies completed design elements, checks dimensions, materials to be used, and quantities.

## **Knowledge**

Extensive knowledge in specialized functions. A wide and comprehensive acquaintance with, and understanding of, both general and specific aspects of the job and their practical application to complex problems and situations ordinarily encountered. Requires in depth knowledge of testing RF, analog and Microwave designs. Capable of training and guiding junior team members in all phases of testing. Ability to set up test stations to perform high frequency impedance sensitive components. Ability to operate independently and generate accurate and detailed test and status reports. Interfaces with other technical disciplines.

## **Supervision Received**

Minimal supervision. Work may be done without established procedures.

## **Consequence of Errors**

Errors are very difficult to detect and would normally require significant expenditures to resolve.

## **Contacts**

Contacts are frequent with individuals representing outside organizations and/or individuals of significant importance within the company. Contacts involve planning and preparation of the communications, require skill, tact, persuasion and/or negotiation to accomplish the objectives of the communication.

## **Work Products (Examples may include but are not limited to)**

Electrical schematics, TTL logics devices, oscilloscope, spectrum analyzer, microscope, RF test and tuning methods, test equipment and Mil spec 883 test requirements.

## **Minimum Education & Experience**

6 years of related experience. 6+ Years directly related experience w/ Associate's Degree in Electronics or related field. Advanced MS Word, PowerPoint and Excel skills.