

# Job Posting

## Vacuum Electron Device (VED) Master Technician

**AT PHOTONIS Defense, Inc.** our dedicated and talented employees are the foundation of our success. We have a full time first shift opportunity in our Lancaster facility for a Vacuum Electron Device Master Technician. The VED Master Technician is responsible for providing engineering, manufacturing and technical input to design team in order to manufacture experimental or new generation VED's, primarily Traveling Wave Tubes (TWTs). Working with the engineers they will define methods of assembly, tooling and design enhancements that will allow the manufacture of these new products. The Master Tech will use his expertise to assemble these first units and will then assist both manufacturing engineers and production assembly personnel to allow for the successful transition from an engineering prototype product into manufacturing production.

The VED Master Technician will report to the VP of Power & Microwave and will mentor the engineers in methods of assembly and fixturing while at the same time proposing new and more cost-effective methods of assembly. They will provide input on the amount of time required to develop and build these products to allow for comprehensive pricing submittals for development engineering proposals.

**ESSENTIAL DUTIES AND RESPONSIBILITIES** include the following. Other duties may be assigned.

Completes assigned projects with overall goal of designing VEDs to meet the requirements of customer specifications and within the established timeframes.

Tracks, analyzes, and reports on progress of design developments to project team.

Identifies opportunities for new manufacturing methods that will improve yield and/or reduce manufacturing costs.

Provides technical support to sales and marketing and may be required to attend trade shows as technical authority.

Assist in the generation of technical reports and presentations and should be expected to participate in customer presentations.

Communicate designs and manufacturing requirements to manufacturing personnel, technicians and assemblers. Assist in the development of procedures and the training of assembly personnel.

Ability to receive US Secret Clearance.

### **Competencies:**

To perform the job successfully, an individual should demonstrate the following competencies:

Technical Skills - Strives to continuously build knowledge and skills.

Teamwork – Works well in a team environment.

Attention to Detail - Thorough when performing work and conscientious about attending to detail.

Written Communication – Excellent writing skills and command of English language and grammar. Ability to write procedures and work instructions that can be followed by assembly personnel.

Oral Communication - Listens and gets clarification; responds well to questions; effectively presents information to individuals of the organization.

Dependability - Follows instructions, responds to direction; keeps commitments.

Judgment – Occasionally makes decisions in the absence of specific policies and procedures, and/or guidance from the supervisor.

Problem Solving - Identifies and resolves problems in a timely manner; develops alternative solutions.

Safety and Security - Observes and enforces safety and security procedures; determines appropriate action beyond guidelines; reports potentially unsafe conditions; uses equipment and materials properly.

### **Qualifications:**

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

### **Education/Experience:**

Minimum of 15 years of experience in all aspects of manufacturing VEDs. Ability to operate all equipment required for manufacture of VEDs including Rod Coating, Helix Winding, Brazing Furnaces, Induction Brazing and All methods of welding. Experience the design of fixtures/tooling required to manufacture VEDs. Ability to improvise where needed, to develop new methods of assembly, non-standard tooling and any other methods that allow for the manufacture of new products in a timely manner. Excellent communications and interpersonal skills required.

### **Language Ability:**

Ability to read, analyze, and interpret common scientific results. Ability to respond to common inquiries from design engineers and participate in all aspects of the design process from conception to completed assembly.

### **Math Ability:**

Ability to apply basic mathematical concepts to determine yield, thermal expansion and heat transfer.

### **Reasoning Ability:**

Ability to solve practical problems and deal with a variety of variables in situations where only limited standardization exists. Ability to interpret a variety of instructions furnished in written, oral, diagram, or schedule form.

### **Computer Skills:**

Basic computer skills required, including word processing, spread sheets, presentation, MRP and database software applications.

### **Work Environment:**

The work environment characteristics described here are representative of those an employee

encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job, the employee works in a high-tech manufacturing business office environment with moderate noise levels.

While in the manufacturing areas, various Personal Protective Equipment (PPE) devices & equipment such as safety gloves, hearing protection and safety glasses may be required.

**Physical Demands:**

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

The employee frequently lifts and/or moves up to 30 pounds.

Specific vision abilities required by this job include close and distant vision, ability to distinguish color, peripheral vision, depth perception, and the ability to adjust focus. Use of microscopes to work on small components and identify microscopic impurities.

While performing the duties of this job, the employee is regularly required to sit; stand; walk; and talk or hear.

**Travel:**

Approximately 80% of time should be anticipated in the factory with appropriate domestic travel to and from the factory, to conferences, trade shows, component manufactures and manufacturing equipment manufacturers locations.

We offer a clean, bright work environment as well as a competitive starting rate, 401(k) with company match, medical, dental, life and disability benefits and more!

Qualified candidates should submit their resumes, cover letter and salary requirements.

**Due to the confidential nature of our business, no in-person applications can be accepted.**

PHOTONIS Defense, Inc. is an AA/EEO/ADA/Veteran Preference Employer.

Job Type: Full-time