

Job Title: Electrical Engineering Technician for Electro-Optical Manufacturing & R&D Support

Location: Woburn, MA

Department: Engineering / Research & Development

Reports To: Engineering Manager

POSITION SUMMARY:

The Engineering Technician supports both manufacturing and research & development activities within an electro-optical product environment. This role bridges hands-on **production support** and **prototype development**, assisting engineers in the design, testing, integration, and improvement of electro-optical systems. The ideal candidate is detail-oriented, technically skilled, and comfortable working in a fast-paced environment involving precision optics, electronics, and mechanical assemblies.

KEY RESPONSIBILITIES:

Manufacturing & Engineering Support

- Support production of electro-optical assemblies and subassemblies, including optical, electronic, and mechanical components
- Assist in process development, documentation, and continuous improvement initiatives
- Troubleshoot manufacturing issues and collaborate with engineering to implement corrective actions
- Perform assembly, alignment, calibration, and testing of electro-optical systems
- Maintain engineering builds, fixtures, and test setups

Research & Development Support

- Assist engineers with prototype builds, experimental setups, and feasibility testing
- Support optical and electronic testing, data collection, and analysis
- Modify existing designs or components under engineering direction
- Document test procedures, results, and design changes
- Participate in design reviews and contribute practical manufacturing feedback

Testing & Documentation

- Execute functional, environmental, and performance testing per engineering specifications
- Operate and maintain test equipment such as optical benches, oscilloscopes, power meters, and interferometers
- Create and update work instructions, test procedures, and engineering documentation
- Ensure compliance with quality standards and configuration control requirements

General Duties

- Maintain cleanroom or controlled lab environments as required
- Follow ESD, safety, and quality procedures
- Support cross-functional teams including Quality, Manufacturing, and Supply Chain

REQUIRED QUALIFICATIONS:

- Associate degree in Engineering Technology, Electronics, Optics, or related technical field (or equivalent experience)
- **5+ years of experience** as an Engineering Technician in an electro-optical, photonics, electronics, or related manufacturing environment
- Hands-on experience with electro-optical assemblies and test equipment
- Ability to read and interpret engineering drawings, schematics, and technical documentation
- Strong mechanical aptitude and troubleshooting skills

Preferred Qualifications

- Experience supporting R&D or new product development programs
- Familiarity with optical alignment, laser systems, imaging sensors, or photonic components
- Experience with prototype builds and low-volume manufacturing
- Knowledge of GD&T, SPC, and basic data analysis
- Experience working in regulated environments (ISO, AS9100, FDA, etc.)

WORK ENVIRONMENT:

- Combination of manufacturing floor, electronics lab, and cleanroom environments
- Handling delicate optical components and working with lasers or high-voltage equipment
- Occasional overtime or schedule flexibility may be required to support development milestones

COMPENSATION:

- Pay range - \$28.50 - \$34.00 per hour depending on experience
- Benefits - Health, Dental, Vision and Life insurance coverage
401k with employer match
Paid time off and holidays

Send your resume to: DavidP@innovationsinoptics.com