



3D-SensIR

26027, Huntington Lane Unit B

Valencia, CA 91355

### **Electro Optical Infrared Sensor Product Engineer**

3D-SensIR (DBA Acqubit) designs and develops Infrared LIDAR sensor arrays and cameras for military and space applications. We are looking for a highly motivated and enthusiastic person to lead in building infrared photodetector array products for space applications.

Acqubit is currently qualifying these infrared focal plane arrays and sensors for space applications. The successful applicant will be responsible for transitioning the product development through qualification and into manufacturing for space applications. The Engineer will analyze performance requirements and identify design opportunities for implementation, and devote to technology advancements, and manufacturing process improvements for high product performance, high quality, and high reliability.

We offer excellent growth opportunities, flexible time, and health benefits.

#### **Primary Duties and Responsibilities:**

- Design III-V avalanche photodetectors
- Knowledge of fabrication of infrared detector devices
- Knowledge of electrical and optical test and performance of detectors
- Technical execution of the advanced infrared and visible focal plane array modules development and production programs from design to successful delivery
- Understand performance requirements and successfully execute all aspects of product production with high quality and reliability
- Strong team member, able to work well with other team members
- Perform all activities in a safe and responsible manner and support all Environmental, Health, Safety & Security requirements, and programs

#### **Requires Skills:**

- Knowledge and hands-on experience of semiconductor device design, fabrication processes and testing of avalanche photodiodes.
- Product development experience
- At least 3 years of hands-on experience in space qualification of electro optical products
- General laboratory and cleanroom practices
- Strong oral and written communication skills, strong organization skills with an attention to detail, and excellent documentation capability
- Candidate should be enthusiastic and highly self-motivated



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**EDUCATION/EXPERIENCE:**

- Bachelor's or master's degree in relevant science or engineering discipline
- Experience in the production of Electro optical semiconductor devices for space applications
- Citizen or permanent resident of the United States

If you are interested, please send your resume to Mr. Emilio Quezada at [emilio@3d-sensir.com](mailto:emilio@3d-sensir.com).