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|  | <h1>Attollo Engineering</h1> | Document Number:   | FRM-020        |
|   | <h2>JOB DESCRIPTION</h2>     | Document Revision: | 001            |
|   |                              |                    | Approval Date: |

|                              |                                       |                         |                             |
|------------------------------|---------------------------------------|-------------------------|-----------------------------|
| <b>Job Title:</b>            | Infrared Sensor and FPA Test Engineer | <b>Job Category:</b>    | Engineering                 |
| <b>Department/Group:</b>     | Engineering                           | <b>Job Code:</b>        |                             |
| <b>Location:</b>             | Camarillo, CA                         | <b>Travel Required:</b> | Infrequent                  |
| <b>Level/Salary Range:</b>   | Competitive pay BOE                   | <b>Position Type:</b>   | Full Time                   |
| <b>HR Contact:</b>           | jobs@attolloengineering.com           | <b>Date posted:</b>     | September 5, 2023           |
| <b>Will Train Applicant:</b> | Yes                                   | <b>Posting Expires:</b> | Click here to enter a date. |
| <b>External posting URL:</b> |                                       |                         |                             |

**JOB DESCRIPTION:**

Attollo is seeking an Infrared Sensor and Focal Plane Array (FPA) Test Engineer. In this position you will be heavily involved in the test and characterization development of infrared single element diodes and focal plane arrays primarily operating in the eSWIR, MWIR, and LWIR wavebands. You will be leveraging new and existing electronics and FPA test infrastructure to develop tests for characterizing new and existing ROICs and sensors. You will also be involved in the development and testing of infrared diodes and FPAs, and analyzing them to improve image quality, usability, and overall system performance.

Attollo Engineering is a designer and manufacturer of cutting-edge infrared cameras and instruments for defense and industrial applications. Attollo provides competitive salary compensation, a generous benefits package, and 401K matching.

**WORK EXPERIENCE:** Bachelor's Degree: >5 years; Master's Degree: >3 years

**REQUIRED EDUCATION:** Bachelor's degree in Electrical Engineering or Physics

**PREFERRED EDUCATION:** Master's degree in Electrical Engineering or Physics with experience in imaging sensors, readout or application specific integrated circuits, and imaging electronics and processing.

**ROLE AND RESPONSIBILITIES**

- Develop and execute diode and IR FPA test procedures against program performance objectives and specifications
- Maintain and develop test reports and databases summarizing diode and FPA performance
- Bring up new test chips and ROICs for infrared imaging and laser sensing
- Interact and coordinate with IC design team to validate and characterize new ROICs and ASICs against design specifications
- Characterize infrared process evaluation chips and manage results reporting
- Conduct wafer probing of ROICs and FPAs
- Develop Python-based scripts for test automation and data analysis
- Work with firmware and software team to prototype, implement, and characterize IR camera features and processing steps
- Interact with and support customers using Attollo ROICs, FPAs, and cameras

**QUALIFICATIONS AND PREFERRED SKILLS**

- Experience with dark current, noise, and quantum efficiency measurements of single diodes
- Experience with IR FPA test system development, including wafer probing
- Experience with wafer probe station operation and ROIC and IR FPA screening
- Ability to understand and analyze data related to ROIC and IR FPA performance
- Experienced in developing and executing design of experiments
- Experience with creating reports, documenting tests, and creating and reviewing documentation regarding process developed
- Practical experience with imaging sensor characterization and infrared radiometry
- Programming experience with a strong preference for Python



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- Experience with typical image sensor performance metrics including dark current, quantum efficiency, operability, NEDT, linearity, RNU, etc.
- Experience with liquid nitrogen and vacuum systems and components
- Experience with printed circuit board design and debug
- Experience with FPGA systems; programming a plus
- Strong PC usage skills
- Comfortable working in a fast-paced environment
- Can work with defined or ambiguous requirements to complete tasks with minimal supervision
- Detail oriented, organized, and methodical in testing definition, approach, analysis, and documentation

### ADDITIONAL NOTES

|                  |          |            |  |
|------------------|----------|------------|--|
| Reviewed By:     |          | Date:      |  |
| Approved By:     |          | Date:      |  |
| Last Updated By: | Ed Huang | Date/Time: |  |