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InGaAs Sensor Scientist/Program Manager

Aerius Photonics is a leading innovator in the development of next-generation sensors for defense and commercial applications. We are currently seeking motivated, high-energy candidates to expand our team.

Summary

The Lead Detector Engineer will lead efforts in developing high performance, low dark current InGaAs/InP detector arrays along with their integration into focal plane arrays. The engineer will make device improvements through device design, growth, and processing. In addition, the engineer will develop hybridization processes for integrating small pixel (< 15 um), large arrays (> 1 Mpixel) with silicon readout integrated circuits (ROIC). Aerius already has a strong position in low dark current large arrays, and the engineer will build off of that foundation to make further improvements and develop new devices. As the business grows, the engineer will be expected to assist with building a team to support the growth.

Position responsibilities

- Design and simulation of photodetector devices
- Wafer fabrication process development
- Oversee fabrication and packaging of FPA devices
- Analysis and troubleshooting of processes
- Lead PI/PM responsibility for FPA and camera products
- Contributing to proposals for further project funding

Desired areas of expertise

- Semiconductor device physics
- Mask layout and design (L-Edit preferred)
- Detector array development and testing
- FPA characterization
- Materials characterization (SEM, CV, SIMS, EDAX)

Education

M.S. or Ph.D. in Electrical Engineering or Physics + 5 years work experience or equivalent experience

Work Eligibility

US Citizenship required