

## **Job Description:** Semiconductor Fabrication and Product Engineer

### **Summary:**

SK Infrared is a leader in the development and innovation of high performance infrared detectors and is seeking a candidate that will lead product development and customer support efforts in this business area. The company is seeking an individual with the same entrepreneurial spirit that the company has in advancing technologies to products for both traditional government applications as well as commercial markets. We are looking for a smart, resourceful, and driven individual who has a superior track record in this field. One who has the ability to build strong relationships with customers and can be viewed as an expert in semiconductor technologies, infrared imaging, and electronics to permit the launch of products in these markets.

### **Responsibilities:**

- Become a participatory member of a small dynamic team of technology professionals
- Design systematic set of experiments and fabricate semiconductor device structures for test and measurement
- Work with, and in, fab and test user facilities to fabricate and evaluate semiconductor technologies
- Enhance in-house test and characterization capabilities for infrared devices including spectral response, responsivity, and other capabilities, then analyze and summarize characterization data
- Utilize program management methods to work with epi, fab, and packaging suppliers to meet device quality and delivery requirements
- Communicate results through technical reports and presentations.
- Develop and manage government sponsored programs that deliver state of the art technologies and hardware

### **Requirements/Desired Skills**

- 5 years of industry working experience in semiconductor processing and/or electro-optic sensors
- Hands on engineering orientation and a problem solver
- Prior experience in semiconductor fabrication and manufacturing
- Familiar with test and verification as well as design of experiments
- US Citizenship or Permanent Resident Required

### **Qualifications**

- BS Degree or higher level in electrical engineering, photonics, or related field
- Strong written and oral communication skills as well as presentation skills
- Participatory interpersonal skills
- Ability to take the initiative to prevent and resolve issues
- Self motivated and able to work on multiple projects simultaneously while balancing priorities
- Comfortable with ambiguity and willing to research and learn in areas lacking expertise
- Attention to detail and a passion for delivering high quality work
- Experience working in a team-oriented, collaborative environment

SK Infrared is a fabless compound semiconductor company that leverages innovations in single and multicolor infrared detection technology in the design and development of custom devices operating at room temperature for military and commercial applications. We have access to "Epi to Camera" research for realizing these detector technologies. This involves heterostructure design and engineering, crystal growth using molecular beam epitaxy, materials characterization, single element and focal plane array fabrication, hybridization and radiometric characterization. The company's heritage includes ground breaking development of early detection of skin cancer with Advanced Longwave infrared-imaging and Analysis System and the development of proprietary software for image-registration/data analysis