

Principal Applications and Test Engineer

Job Description: Senseker is looking for an engineer experienced in the art, science and systems of infrared readout integrated circuit (IC) and focal plane array (FPA) testing and operation. The candidate should enjoy interfacing with customers and managing projects to support a broad range of applications with Senseker parts. A successful candidate will be well versed in the operation, verification and use cases of mixed-signal ICs, such as data converters and digital image sensor or digital readout ICs. Senseker testing extends beyond direct IC verification into FPA performance characterization with imaging in the field or under controlled scene conditions. Devices under test include bare wafers under probing conditions, packaged ICs in both room temperature and cryogenic environments and operational FPAs made with many different types of detectors. This principal position will be heavily involved in the further growth and development of Senseker applications and test group structure and processes.

Work Experience: Greater than 10 years of experience

Education: Bachelor's degree in electrical engineering or physics, master's degree or higher preferred

Job Responsibilities:

- Develop a deep understanding about how to operate Senseker ICs, electronics and software
- Test both mature and developmental ICs for operation and specifications compliance and then provide feedback to the internal design team for enhancements on future parts
- Work with business development and customers up front to shape solutions for customers' applications
- Participate in proposals and straw-man system development in collaboration with customers and vendors
- Help translate customer application requirements into engineering specifications for our design teams
- Operate Senseker ICs, electronics and software with customers (sometimes at their facilities)
- Train customers how to use Senseker semiconductor and electronics systems

Required Attributes:

- Practical test experience with analog-to-digital converters, digital image sensors or infrared readouts
- Experience problem-solving, operating, debugging and testing developmental electronic systems
- Excellent teamwork and communications skills with superior written and verbal communication
- Experience mentoring, communicating and teaching colleagues and customers about your work
- Knowledge of radiometric/photonic systems and characterization
- Hands-on experience with data analysis through scripting (preferably in MATLAB)
- Experience with test electronics development and interfacing with subcontractors
- A wide range of experience with electronic lab equipment and software
- Practical knowledge of digital data storage and transmission concepts and systems
- Organized and methodical documentation
- US person status **required** for this position, pursuant to the terms of government contracts with Senseker*

Desired Attributes:

- Experience with vacuum systems and cryogenics
- Experience with noise analysis and modeling in analog and/or mixed-signal systems
- Knowledge of ADC performance metrics (e.g., linearity, SNR, speed, resolution, etc.)
- Experience with wafer probing, screening test development and data curation

Job Type and Location: Full-time, onsite with some hybrid OK, in Santa Barbara, CA

Base Salary Range: \$160k to \$260k per year, set with experience, education and qualifications

Benefits: Paid time off, 401k with company match, Health/Dental/Vision, HSA contributions

Submit your resume at www.senseker.com or email it to careers@senseker.com



**This position requires work on projects which are protected under US ITAR laws, consequently, only US Persons will be considered for this position by law. For this purpose, the term "US person" means an individual who is a citizen of the United States, a lawful permanent resident alien of the US (e.g., a "Green Card" holder), a refugee, or someone in the US as a protected political asylee, or under amnesty.*

Senseker Corp is an equal opportunity employer and considers qualified applications for employment without regard to sexual orientation, gender identity, gender expression, race, color, sex, creed, religion, national origin, age, disability, veteran status, or any other protected class.