

Senior Mechanical Design Engineer

Job Description: We are searching for an experienced mechanical design engineer to join our team and help us build advanced high-vacuum and cryogenic equipment for the infrared image sensing community. Your duties will include modeling, design, development, fabrication and assembly of cryogenic vacuum systems for test and operation of infrared sensors. You will work extensively with Senseker's customers, suppliers, mechanical engineers and technicians throughout the product life cycle. You will also work cross-functionally with Senseker's physicists, electrical engineers and business staff. You will use both additive and subtractive manufacturing techniques in your creations and continuously strive to optimize our manufacturing flow. You should be comfortable executing your own work instructions and drawings so that you have confidence others can successfully build what you create. You should be comfortable working in a relaxed yet professional small to medium sized business environment.

Required Education and Experience: Bachelor's degree in Mechanical Engineering with 4 years' experience or Master's degree in Mechanical Engineering with 2 years' experience

Job Responsibilities:

- Interface with customers to determine requirements and best-fit Senseker solutions
- Configuring standard product line according to customer requirements
- Designing custom sensor test units (STUs)
- Ensuring all parts conform with thermal, vacuum, and structural requirements
- Working with and delegating work to mechanical and electrical technicians
- Communicating with machine shops and metal finishing shops
- Operating milling machine and lathe
- Communicating with customers ensure the company provides the best product to suit their needs
- Presenting designs to customers for review
- Providing technical support to customers
- Providing technical information for proposals

Required Attributes:

- US Person status **required**, pursuant to the terms of government contracts with Senseker*
- Proficient in creating SOLIDWORKS models and drawings
- Proficient at reading mechanical drawings and capable of reading electrical schematics
- Familiar with applying appropriate tolerances to manufacturing drawings
- Proficient working with basic hand tools and general assembly
- Comfortable communicating with suppliers and customers on a daily basis
- Ability to follow QMS SOPs and provide advice of required or desired changes to documentation
- Dependable with good time management and self-motivation to get tasks accomplished
- Good communication and collaboration skills with the ability to work tightly with a small team
- Drive to invent new equipment, techniques and components to advance our products

Desired Attributes:

- Proficient in SOLIDWORKS Simulation for performing thermal and vibration analysis
- Familiar with design requirements for cryogenic high-vacuum systems
- Proficient in operating milling machines and lathes
- Proficient in 3D printing plastic parts

Job Type and Location: Full-time, on-site/hybrid, in Santa Barbara, CA, USA

Base Salary Range: \$95k - \$135k per year

Benefits: 401k, health/dental/vision, flexible schedule, relaxed working environment, located in a great beachside community.



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

Senseeker Corporation is a wholly US owned transducer IC and cryogenic test solutions company. We specialize in the design of state-of-the-art digital readout integrated circuits, cryogenic test equipment, electronics and software. Senseeker's products and IP enable FPA developers to produce world class infrared image sensing solutions. We are located in beautiful Santa Barbara, CA, amid the west coast's hub of infrared and scientific image sensor companies. For more information see www.senseeker.com.

Senseeker 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.