

Senior Design Engineer

Job Description

This position requires collaboration with other engineers, optical scientists, sales and operations personnel to develop designs of optical systems for new spectrometer and imaging products. The Design Engineer must be a team member as well as function as lead engineer to conceptualize, design and validate new products which can be manufactured profitably and on schedule. We are looking for a technical professional with strong analytical design and project management skills and proven product expertise that will thrive in a small business environment.

The Design Engineer will provide technical guidance and feasibility assessments to customers considering the use of diffraction grating based products for their applications. This person will understand product usage and assist in the development of technical proposals based on application requirements. This person will also work closely with manufacturing and R&D to identify and prioritize product and technology roadmaps. This person must be flexible and capable of working multiple projects simultaneously in a fast growing environment.

Education, Experience, and Skills

The ideal candidate will have a BS degree in Mechanical Engineering or advanced degree with emphasis in optics or electro-optics and a minimum of 5 years experience. Knowledge of detector technology, opto-mechanics, and electronics is important. Self motivated with the ability to work and mentor peers in a team environment. Must be a strong individual contributor with proven analytical and project management skills; customer skills are important.

Required: Demonstrated ability to design and document complex spectrometer designs with a knowledge of diffractive optics. Experience specifying production machining methods and optimizing manufacturability of product designs. Proven proficiency with SolidWorks or other 3D-CAD tools.

Desired: Classified security clearance at "Secret" level
Software knowledge/experience with applications such as LabView, C++, Trace-Pro, ENVI

Business Environment

Headwall Photonics, located in Fitchburg, Massachusetts is a leader in the design and high volume manufacture of spectral imaging solutions, single and multi-point spectrometers utilizing original holographic diffraction gratings. Headwall offers its worldwide base of customers a range of integrated spectroscopy solutions that are designed and manufactured for application-specific performance in the Analytical, Life Sciences, and Telecommunications industries.

Headwall's optical capabilities, design services and operational excellence enable us to be utilized as a strategic extension of our OEM customer's engineering organization. Our strength is in providing customers with engineering expertise and capabilities throughout the product life cycle - from product concepts to optical design through high volume manufacturing.

We are currently seeking a highly motivated Design Engineers to enhance our capable team and contribute to new opto-mechanical designs and technology and product developments. This position will report to the Director of Engineering.

Qualified candidates: Please contact us at Jobs@headwallphotonics.com