



## Senior Optical Engineer

At Avegant, we are a unique team. Heads-down when we need to be, we enjoy each other's company and play together as well as work together. Each member of our team contributes in their own way to our culture of openness, collaboration, and creativity. Avegant is seeking a Senior Optical Engineer to contribute to our cutting-edge near eye display technology. The position will be best filled by a highly-motivated person with at least 3 years of experience in a design and production environment or equivalent experience. This position will be responsible for working with technical team members in the development and evaluation of new optical technologies, architectures, components, and assembly concepts for near-eye display systems. This is a great opportunity to be a part of a revolutionary technology in a fast-growing field. This position will work closely with our mechanical engineering, optical and industrial design teams. This position reports to the Chief Technology Officer.

Competitive salary based on experience, stock options, full medical, dental, vision benefits, 401k matching, unlimited PTO, office snacks, and team family-style lunches (in non-COVID times).

The role is currently remote, given COVID protocols, but is anticipated to move to an in-office role when things open back up, at our dog-friendly office located in downtown San Mateo, CA, within walking distance of Caltrain.

### Responsibilities:

- Design novel imaging systems, select components, and analyze tolerances to support product development and manufacturing
- Work with suppliers on custom or semi-custom component selection, specification, and qualification
- Assemble and evaluate prototypes – specifically optical characteristics, image quality (MTF), light polarization measurement, thermal characteristics
- Work with suppliers to define, specify, and evaluate optical coating performance on prototype components and commercial products
- Work with contract manufacturers to ramp up production from prototyping
- Maintain detailed laboratory notes of the results of various evaluation experiments
- Test samples and provide analysis of results of testing and experiments
- Evaluate new test / process equipment and tools and make recommendations to management
- Maintain database of laboratory test results that can be accessed for comparison of data from various evaluation samples
- Document prototype assembly procedures that can be used for subsequent manufacturing process documentation



### **Qualifications:**

- Interest in tackling challenging problems, identifying, and discussing solutions supported by data
- Willingness to try new solutions and share challenges and roadblocks
- A “how can I help” mindset
- Curiosity, humility
- Bachelor’s Degree in optical engineering or similar
- Master’s degree or PhD, or a demonstrated understanding of Optical Physics and first principles-based approach to problem solving
- 3+ years’ work experience in optical design, including design of imaging systems, especially for image projection, preferably with near-eye displays
- Experience with optical design software such as Code V, LightTools, and Zemax, including tolerance analysis and stray light modeling
- Experience with the transfer of new designs and processes to manufacturing
- Experience with optical system assembly methods and materials
- Familiarity with the tools and techniques needed to characterize optical systems, including resolution, distortion, field curvature and colorimetry
- Experience with Solidworks a plus

Avegant is a well-funded, venture-backed technology company developing next-generation display technology to enable previously impossible augmented reality experiences. We are pioneering innovative hardware and software solutions that will forever change how we learn, play, work and interact with each other. We’ve won multiple awards, our team is best in class, and we’re just getting started.

Avegant is about the journey of innovation, together as a team. Interested in joining us? Send a pdf of your resume to [jobs@avegant.com](mailto:jobs@avegant.com).