



Optical Design Engineer for Augmented Reality Display

About Optinvent:

Optinvent is a recognized leader in display optics for augmented reality. Its proprietary technology, protected by nearly 40 international patents and secret know-how, will enable the “Metaverse” and a paradigm shift to consumer augmented reality smart glasses. Optinvent’s team has developed a disruptive wide field of view AR display technology which is lighter, cheaper, safer, more energy efficient and more comfortable to use vs. the competition as a result of over 10 years of R&D. The cutting-edge display technology is completely transparent and is integrated into smart glasses where information is projected directly into the eye of the wearer. Optinvent’s unique technology is the only one in the world based on high precision molded plastic optics allowing it to be scalable in high volume as well as unbreakable and does not suffer from the image quality issues of the competition. Optinvent is currently working with several major customers on their future AR and mixed reality smart glasses.

Position: Optinvent is seeking an Optical Design Engineer with strong experience in optical design and thin film coatings to strengthen its current product development team. The candidate will integrate a young and dynamic team working on next generation AR/mixed reality display technologies.

Mission: You will be responsible for the design of optical display systems for the next generation of augmented reality smart glasses based on geometric waveguides. You will interface with customers, suppliers and the rest of the Optinvent team in order to translate specifications into a real product. You will have state of the art simulation tools and measuring equipment at your disposal to find the best technical solutions. You will generate reports on simulation results, tolerancing data, generate component and coating specifications and contribute to the design for manufacturing of the components. You will bring new and innovative ideas to improve the technology roadmap and contribute to the patent filing process. You will travel to customers, suppliers, and participate in scientific and technical conferences and trade-shows when necessary.

Your knowledge of optical system design will allow you to become one of the world's leading experts on the augmented and mixed reality displays.

Job Description:

- Definition and design of complex optical imagery systems and thin film coatings
- Drafting of technical specifications based on customer input, definition of key performance criteria
- Interfacing with customers to optimize the optics and performance analysis taking into account their key requirements
- Development of algorithmic tools for performance comparison, for optimization and tolerancing dedicated to geometric waveguides
- Support for the prototyping and fabrication of optical components and thin film coatings: drafting of specifications, interfacing with manufacturing partners, integration, and performance measurement
- Design for manufacturing of high-volume optical components
- The position reports to the CTO of the company

Profile and Experience :

- Recent graduates and candidates with 1-5 years experience in R&D & successful industrial product development will be considered.
- Strong experience in optical simulation software (Zemax, Code V, LightTools, Filmstar, etc.) and Python for design, tolerancing and optimization.
- Sequential and non-sequential ray tracing
- Experience with microdisplays and near to eye display is appreciated.
- Experience in molded optical plastic optical components and thin film coating deposition is a big plus.
- English proficiency is necessary.

Location: Rennes, France

Contract: The contract type is CDI/permanent position with a comprehensive health plan.

Salary: To be discussed based on experience.

Availability: The position is available immediately.

Contact: Send your application with a CV and a cover letter to the address mail:
contact@optinvent.com