

Azalea Vision, a venture-backed startup and spin-off from IMEC and Ghent University, is developing an innovative **medical device** technology integrating active light management systems inside a contact lens. These devices will significantly improve the quality of life of millions of patients by reducing their light sensitivity and increasing their visual sharpness. Patients suffering from ocular disorders (aniridia, coloboma, ocular albinism) and neuro-ophthalmic conditions (chronic migraine) will directly benefit from the smart lens. Azalea Vision combines a multi-disciplinary solution based on multiple technology building blocks from liquid crystals, stretchable/thin-film electronics, hybrid assembly, ultra-thin ASIC design to contact lens technology.

After a successful proof-of-concept phase, the Optical lead engineer will focus on one hand on the modelling and characterization of the optical quality of active ophthalmic solutions (based on liquid crystals inside contact lenses); leading the setup of optical instruments and on the other hand, interact with thin film, liquid crystal and systems engineers and external teams to embed the optical solutions inside conventional contact lenses, ensuring high optical quality.

Your responsibilities and objectives

- As optical design authority you will establish engineering specifications, including key performance metrics, test methods, and test requirements for ophthalmic systems inside contact lenses.
- You will model and prototype critical technologies to drive system performance and to validate visual correction and light transmission through liquid crystal-based contact lenses in order to reduce optical aberrations, diffraction, haze.
- You will support the evaluation and characterization of optical components, and system integration.
- You will lead optical design, prototyping and testing of ophthalmic devices (diverse contact lens technologies).
- You will design and develop optical test benches and optical simulations for visual performance characterization.
- You will communicate effectively with both management and fellow team members, to transfer optical specifications of the design in the total system design.

Your profile

- You hold a Master's degree or PhD in Vision Science, Physics, Engineering Physics, Color, Optics or a technically related field with at least 3 years of relevant design and validation experience.
- You have experience in at least one of these areas: human vision, visual optics, polarization optics, optical testing and metrology.
- You have experience with laboratory work in setting up optical systems and you have experience with methods and tools for fabrication of optics.
- You have broad experience with electrical/optical/mechanical installations, including color science, optical quality and visual optics (e.g., accommodation, multifocal lens design).
- You like to work in (interdisciplinary) research projects and you have the ability to discuss and communicate your work with people of different backgrounds.

- You are a motivated person, with a strong curiosity and a genuine wish to learn more and develop your skills and knowledge further. You are hardworking and do not give up easily.
- You have excellent written and verbal communication skills in English.

Our offer

An opportunity to take an key role to develop a new medical device to the market improving quality of life of millions of people.

As one of the first team members of the company you will be able to make a difference and be part of shaping a critical component of the product, the processes and the teams to make it happen.

Interested?

Please send your CV with motivation letter to careers@azaleavision.com