

Open Position: Research & Development Optical Engineer position

Company and Technology

With offices in Madrid (Spain) and Boston (Massachusetts/USA), [PlenOptika](#) is an award winning and fast-growing company that brings cutting-edge optical technology to front-line vision care professionals worldwide. Our core platform technology, the patented QuickSee Wavefront Autorefractor, offers eyecare professionals and healthcare providers an unprecedented combination of clinical power and usability suited equally for the modern clinic, optical retail store, home visit, and global health mission. Through vision driven innovation, PlenOptika is working towards improving the lives of over 1 billion people who lack access to the vision correction they need. Our technology and work have been reported in peer-review journals and recognized with numerous international awards. The company sells products in more than 60 countries and agencies such as NASA has funded part of our research.

Opportunity

We are seeking a highly talented, full-time Optical Engineer to join our Research and Development team in Madrid. The successful candidate will join a cross-functional, multi-cultural team dedicated to the development and commercialization of groundbreaking medical devices with application in vision care. In this environment, they will:

- Learn about the aspects of the medical device industry from the research stage to manufacturing and commercialization.
- Learn the underlying science of cutting-edge technology and contribute to scientific and technical achievements focused on improving people's life.
- Stay plugged into emerging technologies, cutting edge science and industry trends.
- Participate as an author in scientific publications and patents.
- The candidate can develop and Industrial PhD within the company

Main Duties and Responsibilities

The role will involve design, development of innovative optics and software for a new medical device being developed by the company. The projects will use and combine different technologies, tools, and software and hardware platforms to achieve the specifications we have for the new device. In general terms the duties and responsibilities of the role will be:

- Work closely with different team members to create and validate an electro-optical design valid for our new generation device.
- Simulate and validate different optical approaches to determine the most feasible option for our final product.
- Design, develop, and maintain hardware/software for different platforms, oriented to data acquisition and data processing.
- Ensure that the software/hardware being developed are following technical and regulatory requirements
- Create and maintain technical documentation.
- Apply for funding (national and international).
- Participate in clinical evaluation of the device and intermediate prototypes

Qualifications

Minimum qualifications

- Master's degree in Optics, Optical engineering or related field
- University degree in Physics, Optometry, Engineering or similar.
- High proficiency in written and spoken English is required.
- Must be flexible, proactive, and resourceful in addressing new challenges.
- Experience in design and development of Optical systems
- Experience prototyping optical systems

Desirable qualifications

- Optical design and prototyping (e.g., knowledge of Zemax)
- Experience in Medical imaging technologies
- Mathematical skills
- Experience in developing electronics systems
- Experience in at least one of the following frameworks: Embedded, Desktop, Android, iOS, Web.
- Experience in C/C++ and MATLAB programming
- Experience with Linux and Embedded Linux platforms
- Experience with image processing algorithms
- Experience with cloud platform (AWS)
- Knowledge of QtCreator, Xcode, Android or React is a strong plus.
- Basic skills in Machine Learning and Deep Learning.

Hours

Full time.

Others

In person work. The candidates must be based in Madrid.

Compensation (base salary)

To be determined according to professional qualifications and experience.

Contact

Email eduardo@plenoptika.com with your resume and any other relevant information.