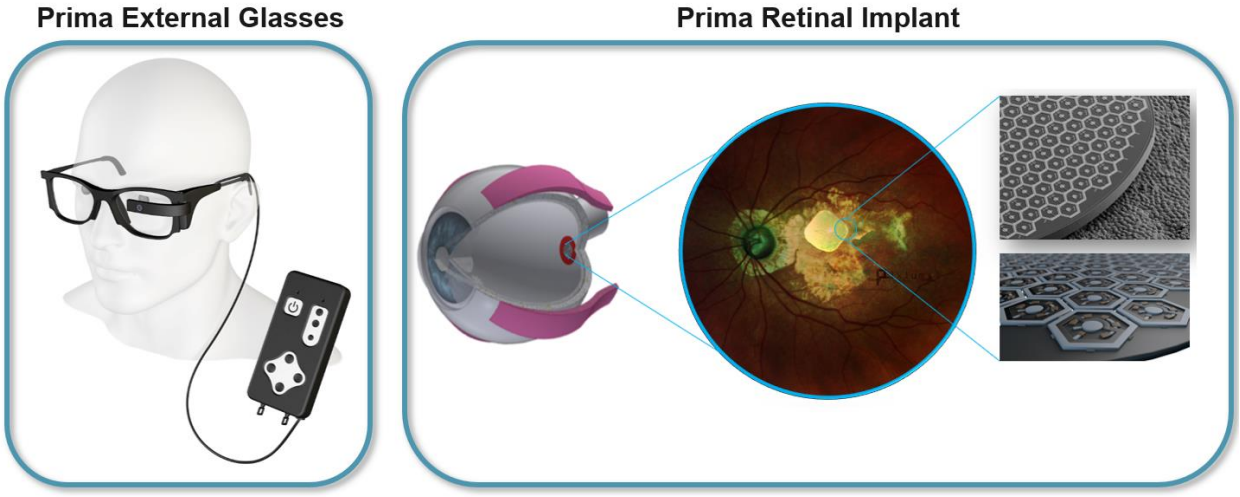
Implant technical leader

Leading the research, development and industrialization of cutting edge miniaturized retinal implants that allow blind people to see again

Pixium Vision is developing innovative Vision Restoration Systems, which are active implantable medical devices intended to have blind people regain visual perception and greater autonomy. Pixium leverages the rapid advances in visual processing, microelectronics/nanoelectronics, optoelectronics neurobiology, and intelligent software algorithms in its miniaturized complex optoelectronic systems.

The Prima implant is to date the smallest artificial vision device and holds the world record for prosthetic visual acuity in patients. The implant is a 2-mm large, 30-µm thick microchip array of photodiodes and electrodes coated with biomaterials. This chip combines cutting edges semiconductor and MEMS manufacturing technologies as well as advances in bio-coatings for neurostimulation.

Pixium is looking for someone to take the technical leadership in the research, development, industrialization, and production of this miniature Prima retinal implant chip.



We are looking for a passionate, scientifically skilled and hands-on technical leader who wants to make a difference in patient's life while developing state of the art neurostimulation microdevices within a fast pace start-up environment.

Role

Research, development, implementation, and manufacturing of the retinal implant core technologies at Pixium Vision

Responsibilities

- Ensure production of retinal implants at suppliers per plan
- Ensure adequate supply chain and supplier monitoring, including the development and deployment of in-process controls and quality testing
- Coordinate technical issues with suppliers in manufacturing or testing
- Develop and carry out implant studies, whether for testing, R&D or verification and validation purposes
- Develop and implement enhanced implant test methods, including appropriate test benches
- Study the implant optoelectrical behavior, using modeling, simulation, experiments or other relevant scientific tools and assess implant short and long term improvement opportunities
- Propose an implant roadmap and develop long-term implant technology improvement studies
- Partner with academic or other partners to develop next generation implant technologies for inclusion into the R&D pipeline
- Interact with other team members for better implant integration and overall implant performance within the Prima system, including the algorithmics / software, retinal implant set and system teams

Minimum Qualifications/Experience

- Engineering degree or similar, PhD or postdoc in physics / micro-nanotechologies preferred
- Experience in micro/nano fabrication and/or semiconductor processes
- Experience in multi-physics phenomena (e.g. combination of optics, semiconductor, electrochemistry, etc.) behavior and modeling, experience in test benches development
- Good track record of scientific or technical achievements (peer-reviewed articles, etc.)
- Excellent communication skills (written and verbal) in French and English.

Personal Attributes

- Analytical, methodical engineer
- Hands-on, field driven
- Scientifically skilled, technically competent,
- Problem solver, results-oriented
- Team player, open mindset,

Position reporting to the Engineering Manager