

The Last Light Source

Erik R. Hosler

xLight, Inc.

Light drives innovation – the wavelength, the power, the intrinsic qualities. From the mask shop to the packaging fab, from lithography to metrology, each technology node has relied on light invention to enable scaling, process control, reliability, and even ensuring supply chain security. However, the increasing cost and complexity of new light sources to meet industry demands has become prohibitive, leading to stagnation in technology development and reliance on the status quo in terms of the light available and the applications it permits. Now, a leap is required to a new generation of light source that will serve the semiconductor industry indefinitely, providing low-cost EUV as well as any wavelength required for manufacturing and R&D applications. xLight is building an accelerator-based light source to drive the semiconductor industry into the next decade and beyond, providing high power, quality light to any application and delivering...

Light as a utility.



Erik Hosler, CEO

Erik Hosler is the Chief Executive Officer at xLight, Inc., which is focused on industrializing particle accelerator technology to deliver the ultimate light source to drive US competitiveness in semiconductor manufacturing and beyond. Erik received his PhD from the University of California, Berkeley in Physical Chemistry, and afterwards he went into lithography research and development at GLOBALFOUNDRIES. As EUV Lead Technologist at GLOBALFOUNDRIES, Erik delivered EUV lithography and the associated infrastructure for 7nm manufacturing. He also led an industry-wide study group on the potential of using free-electron lasers as a lithography light source and published several technical papers on the subject. Erik also worked at PsiQuantum as the lithography and patterning strategist for initial silicon photonic quantum computing test vehicles before starting xLight, Inc. in June 2021.