



## Silicon Photonics Design Engineer

Location: Greater San Diego, CA or Taiwan | Full-time (Hybrid) | Start Date: Immediate

### About the Role

The successful candidate will join our Photonic Design team developing cutting-edge silicon photonics devices. This person will learn and grow rapidly, while having enormous impact across all technical and business activities in a fast-paced startup environment.

### Responsibilities:

- Design, simulate, and optimize silicon photonic active and passive components
- Implement design automation for simulation and layout tools
- Support and validate photonic layout design
- Collaborate with integration and test teams to optimize design based on aligned requirements
- Contribute to the development of new Intellectual Property related to photonic designs

### Required:

- Strong desire to contribute to a high-impact photonics company
- Ph.D. in Electrical Engineering or a related field, or M.S. with 2+ years of industry experience
- Practical experience in modeling photonic devices or systems with design software (Lumerical, Tidy3D, or similar)
- Eligible to work in the United States or Taiwan

### Desirable:

- Experience in high-speed modulator design and characterization
- Hands-on PIC tape-out experience with commercial foundries using Cadence, GDSfactory, or other similar code-based layout tools.
- Experience developing PICs that have reached HVM for IM-DD or coherent applications
- Hands-on experience in high-speed electrode or RF design using HFSS, ADS, or similar tools
- Proficient in programming for design automation and data analysis with version control experience
- Solid understanding of optical transceiver architectures and system-level requirements
- Experience in photonic testing and integration at the wafer, die, and package levels
- Working knowledge of coherent optical systems and CPO architectures is a plus
- Familiarity with high-speed analog circuits (e.g., TIAs, modulator drivers) is a plus

### Compensation and Benefits:

- Salary range: \$120,000 – \$220,000 (commensurate with experience and impact).
- Equity
- Health Benefits
- Flexible working hours and dynamic startup environment
- Opportunity for rapid advancement



### **About Polaris Electro-Optics**

Polaris Electro-Optics is redefining optical interconnects through our breakthrough Ferroelectric Nematic Glass (FenGlass™) technology—enabling ultra-fast, low-power silicon photonic modulators that unlock 200 G/lane and beyond. We're a Series-A startup backed by leading investors and working with the world's top datacom and coherent ecosystem players. Join us to define the next generation of optical connectivity.

Send your resume and cover letter to: [careers@polariseo.com](mailto:careers@polariseo.com)