



QUINTESSENT

JOB OPENING: Photonic Engineer

About us:

Modern computing applications such as large-scale A.I. are bottlenecked by the available data movement bandwidth. The computing infrastructure needed in the future will be even more bandwidth starved due to the pace of growth and proliferation of such applications. Quintessent is developing future-proof connectivity solutions to solve the data movement bottleneck. Our team comprises of technology pioneers and serial entrepreneurs with a long track record of entrepreneurial success at multiple past ventures. We are seeking talented and adventurous individuals to join us on our journey as fellow members of a stellar team.

Employment type: Full time

Responsibilities:

Core responsibilities will include any or all of the following depending on experience and fit: design, simulation, mask layout, test, and analysis of photonic integrated circuits (PICs) and devices from early concept demonstrations to volume product prototyping/manufacturing. The candidate will be interfacing closely with a team of engineers responsible for design, layout, fabrication, test, and reliability.

Qualifications:

- Ph.D. degree in Physics, Applied Physics, or Electrical Engineering
- Experience with III-V and/or silicon photonic device design, simulation, fabrication, and testing.
- Experience with mask layout software and process design kits (PDK), either custom developed in house or used with commercial foundries.
- Experience with simulation methods/software such as film mode matching (FMM), finite difference time domain (FDTD), and beam propagation
- Experience with computer programming such as Python. Experience with programmatic layout is strongly preferred.
- Experience working with commercial foundries for device and/or PIC fabrication is strongly desired but not necessarily required.
- Familiarity with PIC design tradeoffs for multiple devices, link budget analysis, and optical signal integrity considerations is strongly desired but not necessarily required.
- Effective communicator and collaborator.
- Fast learner and problem solver.
- Meticulous attention to detail and consistency in execution.

For more questions or to apply for the position, contact: hirinq@quintessent.com