



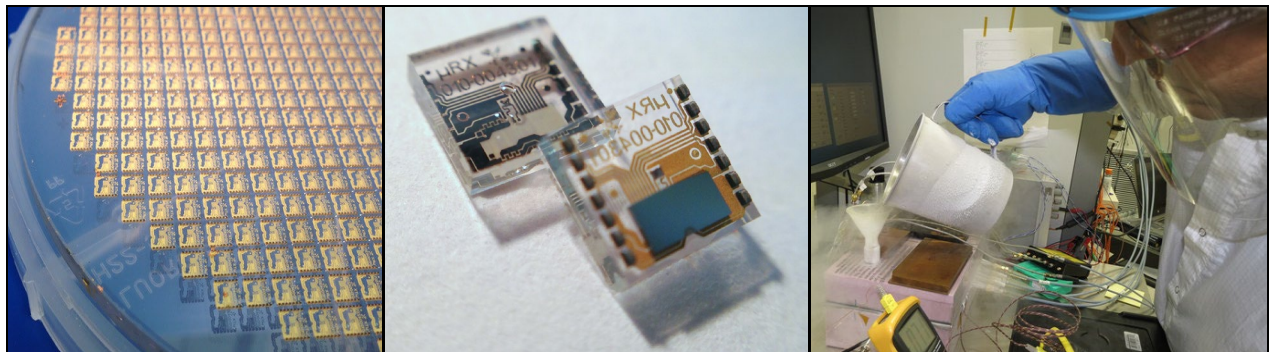
## ENGINEERING CAREER OPPORTUNITY

### Opto-Mechanical Design Engineer

#### ABOUT ULTRA COMMUNICATIONS

Ultra Communications Inc. designs, develops and manufactures high performance optical interconnect solutions for High Reliability (Hi-Rel) Space, Mil/Aero, Marine, Industrial, and Harsh Environment applications. Their patented designs and processes enable the highest performance, smallest footprint, highest reliability optical solutions available in the industry. Located in Vista CA, UltraComm is currently ramping production capability to address volume product needs.

The UltraComm work environment is a unique combination of development lab and production facility with an atmosphere of family and professional camaraderie. If you relish challenges and enjoy creating never before possible products, UltraComm is the place for you.



#### Position Overview

The Opto-Mechanical Design Engineer works within an interdisciplinary team bringing new fiber optic transceiver concepts to life. To be successful in this role, the candidate will be required to apply a wide range of previous experiences and take part in data-driven decision making. The candidate must enjoy working in a fast-paced environment while maintaining a sense of commitment and flexibility, be a team player, and act with a sense of urgency.

#### About the General Responsibilities

- Carry out detailed optical design and simulation
- Create solid model representations of optical components and sub-systems
- Interact with micro-optical fabrication vendors to realize prototype designs
- Carry out metrology on optical and mechanical components
- Establish statistical acceptance criteria for micro-optical components
- Work with mechanical engineering staff to realize detailed designs, structural/thermal simulations, and drawings.
- Support transfer of products to manufacturing.
- Use strong analytical skills to understand requirements, foresee technical challenges and contribute to the product definition.
- Create and edit product documentation, including component specifications, verification test plans, drawings, and change orders.
- Work with software, manufacturing, materials, electrical, and other cross-functional development teams to optimize designs for performance, reliability, and manufacturability.
- Participate in meetings and presentations with team members and sponsors and communicate ideas and engineering concepts to all disciplines.
- Manage internal and external resources to meet the design, build, test, and manufacturing criteria.



## Qualifications

- Experience with optical design and modeling (Zemax), particularly dealing with micro-optics typically found in fiber optic communication components.
- Experience with the metrology and evaluation of opto-mechanical components.
- Familiarity with active and passive fiber-optic communication components and techniques.
- Familiarity with materials encountered in semiconductor and optical packaging applications, typically semiconductors, glasses, metals, plastics, solders, and adhesives.
- Familiarity with fabrication and assembly techniques, including machining, molding, additive manufacturing, flip-chip bonding, and active alignment.
- Experience with mechanical design in SolidWorks.
- Good artistic sensibility needed to create initial concept models and illustrations.
- Ability to read and interpret complex mechanical drawings, including GD&T.
- Ability to carry out worst-case and statistical tolerance analysis.
- Analytical, data driven, and comfortable with the application of statistical techniques.
- Exceptional verbal and written communication skills.
- Applies company policies and procedures to resolve routine issues
- Willingness to learn, then teach new technologies through doing and interfacing with technology leaders and designers
- Willingness to work with technicians, engineers, and management as a team to support development and production
- Ability to concurrently manage multiple projects and priorities assigned
- Ability to prioritize, coordinate, organize, and follow-up with clients, vendors, and team members to meet objectives
- Highly motivated, organized, and teachable

## Education/Experience

- BS required; MS or PhD preferred
- 2+years of experience dealing with optical and mechanical design

***Full Time positions are eligible for a robust benefits package including medical, dental, vision, Employee Incentive Plan and 401k with company match. Please send resume and cover letter to [CAREERS@ULTRACOMM-INC.COM](mailto:CAREERS@ULTRACOMM-INC.COM). Qualified individuals being considered will be contacted for interview.***

UltraComm supports a diverse workforce and is committed to a policy of equal employment opportunity for applicants and employees. UltraComm does not discriminate on the basis of age, race, color, religion (including religious dress and grooming practices), sex/gender (including pregnancy, childbirth, or related medical conditions or breastfeeding), gender identity, gender expression, genetic information, national origin (including language use restrictions and possession of a driver's license issued under Vehicle Code section 12801.9), ancestry, physical or mental disability, legally-protected medical condition, military or veteran status (including "protected veterans" under applicable affirmative action laws), marital status, sexual orientation, or any other basis protected by local, state or federal laws applicable to the Company. UltraComm also prohibits discrimination based on the perception that an employee or applicant has any of those characteristics or is associated with a person who has or is perceived as having any of those characteristics.