



# Opto Alignment

**Solutions for Optical Systems Manufacturing**

1034-A Van Buren Avenue, Indian Trail, N.C. 28079-5541, T: 704-893-0399 F: 704-893-0403

Position: **Senior Software Engineer**

Opto Alignment Technology is seeking a talented, enthusiastic, and creative Senior Software Engineer to join our small but rapidly growing business. Opto Alignment is highly recognized as a quality developer and supplier of state-of-the-art laser-based systems for precision optics alignment, assembly, inspection, and surface metrology. The successful candidate will report to the CTO and work with our internal R&D teams to develop robust User Interface application code in support of our broad range of end products. The Senior Software Engineer is expected to have a strong background programming Windows-based applications that interface to light sources, sensors, and automated positioning mechanisms. Opto Alignment maintains a "hands-on" work environment in which the candidate may contribute to the creation of software documentation, assisting with the testing of prototype systems, and debugging released software in the field.

#### **Job Responsibilities:**

- Work with core software and general R&D teams on the development of new User Interface applications for next-generation optical instrumentation products.
- Project manage scope of work and execution during new software development activities.
- Work closely with Production and Applications teams during new product roll-out to manufacturing and commissioning at customer sites.
- Maintain well documented code and manage software updates and releases via company secure repository.
- Stay current with latest developments in windows computing, high-speed interfaces, and communication protocols with particular emphasis on instrumentation and robotics.

#### **Requirements:**

- BSc or MSc in Engineering, Physics, or related discipline.
- Minimum 10 years of software development experience on Windows platforms using Microsoft C++/C#/Python and other .Net languages.
- Programming in Windows Presentation Foundation (WPF).
- Developing User Interface software for automated optical instrumentation.
- Experience with image processing using a popular image processing toolkit such as Halcon, Cognex, Matrox or OpenCV.
- Proficiency in programming computer device interfaces such as Serial, Ethernet, USB, and general I/O.
- Strong communication skills, team player, and ability to work with minimal supervision.

The company is located in Charlotte, North Carolina. We offer competitive compensation packages of health insurance, vacation and PTO, 401K retirement matching plan, Profit Sharing, along with a challenging and stimulating environment.