

F/T Position
Shift: 1st
of Openings - 1

Posted:	06/21/11
Expires	06/27/11
<u>Or until filled</u>	

POSITION TITLE: Optics Engineer

DIVISION/DEPARTMENT: Optics – Knight Vision

Required Education: High School () College (X) Degree: BS in Optical Engineering from an accredited institution or a combination of an engineering degree and appropriate optical experience.

EXPERIENCE REQUIRED:

Three to five years of experience in designing and analyzing optical devices integrated into electro-mechanical systems. A minimum of two years of experience in testing optical products, interpreting test results, and improving optical system performance based upon the knowledge gained from testing and analysis. A minimum of one year of experience in writing technical engineering reports is preferred as well. Co-op experience may be considered in lieu of employment.

PURPOSE OF POSITION

The Optics Engineer performs optical design, system testing, analysis of information, and optical system improvement from a professional engineering perspective. Employees in this classification are considered fully competent engineers, capable of performing all of the conventional aspects of engineering in the functional areas of responsibility.

DESCRIPTION OF JOB DUTIES

- Design optical products, integrating optical elements with electrical and mechanical systems.
- Lead projects and serve as team lead for optics product teams.
- Utilize Z-Max fluency for optical design optimization.
- Use empirical data analysis for evaluating optical systems.
- Design, setup, and use optical test bench systems and experiments.
- Perform optical measurements such as MFT, EFL, resolution, and distortion.
- Incorporate design improvements based upon measurement and analysis.
- Evaluate, select, and adapt techniques, procedures, and criteria for optical system assembly.
- Participate in issue resolution situations and create plans to help solve problems.
- Plan, schedule, conduct, and coordinate engineering work related to development and production projects.
- Conduct research, perform economic analysis, define issues, and recommend direction.
- Conduct inspections and related quality assurance activities.
- Provides technical assistance to management staff, production personnel, and suppliers.
- Manage and monitor engineering projects from concept to fruition.
- Perform related duties as required.