

Nutronics, Inc. Job Description 04-06-17

Position: Electro-Optical Engineer or Scientist

Experience: Will consider Staff Engineer/Scientist up to Sr. Engineer/Scientist level depending on relevant experience and expertise.

Job Description: Support development of cutting edge laser and electro-optical systems.

Required Experience / Capability:

1. Commitment to Excellence. Attention to Detail. Pride in Workmanship.
2. Ability to work in a dynamic and at times stressful environment and maintain composure and good working relationships under stress. Requirements change frequently and rapid-turn solutions must be developed frequently.
3. Effectively manage schedule and priorities with minimal daily direction to meet mid to long-term schedule objectives.
4. Superior problem-solving ability and ability to absorb information from multiple sources to reach a solution.
5. Integration for real-time control of electro-optical / mechanical components using LabVIEW, MATLAB, Firmware, and/or C/C++/C# (normally involving code re-use).
6. Installation, alignment, and integration of optics, electro-optics, & mechanics (combination of COTS & custom mechanics & optics). Competence in maintaining cleanliness standards and operation in a clean room environment.
7. Expertise and competence in working with high power laser systems.
8. Integration of auto-alignment algorithms and methods.
9. Exhibit strong troubleshooting skills to solve complex and constrained opto-mechanical alignment problems (particularly for ruggedized systems) and familiarity with implementation of electro-optical systems.

Additional Desired Experience / Capability

1. Experience in LabVIEW.
2. Experience with electro-optical systems including acquisition, pointing, and tracking.
3. Experience with MATLAB.
4. Experience in Adaptive Optical (AO) Systems.
5. Experience in specification and evaluation of optical coating requirements, in particular for high power applications.
6. Experience in Characterization or calibration of camera and electro-mechanical actuator response.
7. System Test and Evaluation
8. Experience in C/C++/C# is beneficial
9. Experience with optical fiber splicing, polishing, repair/service, and fiber management.
10. Experience / knowledge of feedback control systems is beneficial
11. User Manual Development and / or Technical Report Writing (i.e. good technical writing skills are beneficial)
12. Experience in ZEMAX and/or GLAD is beneficial

This job offers a unique opportunity for the right candidate. Even if you already are familiar with High Energy Laser (HEL) or AO technology or are working in the field – you will learn to think of HEL and AO systems from a new perspective.

Nutronics, Inc. is an equal opportunity employer. Nutronics, Inc. provides equal employment opportunities (EEO) to all employees and applicants for employment without regard to race, color, religion, sex, national origin, age, disability or genetics. In addition to federal law requirements, Nutronics, Inc. complies with applicable state and local laws governing nondiscrimination in employment in every location in which the company has facilities. This policy applies to all terms and conditions of employment, including recruiting, hiring, placement, promotion, termination, layoff, recall, transfer, leaves of absence, compensation and training. Nutronics, Inc. expressly prohibits any form of

workplace harassment based on race, color, religion, gender, sexual orientation, gender identity or expression, national origin, age, genetic information, disability, or veteran status. Improper interference with the ability of Nutronics, Inc.'s employees to perform their job duties may result in discipline up to and including discharge.

Nutronics, Inc. is the nation's leading developer of high performance Adaptive Optical systems with a primary focus on high energy laser (HEL) applications. We solve the most demanding problems in laser propagation through turbulence. Our multi-disciplinary team is hard-working and dedicated to developing HEL, AO and Tracking system solutions that offer robust performance in demanding turbulence conditions. Nutronics, Inc. is a small, privately owned business located in Longmont CO (www.naosystems.com). If you want to be challenged, can bring sound skills to the table, and are you are willing to learn and adapt, then Nutronics, Inc. is for you.

All applicants must possess or be qualified to obtain a U.S. DoD Personnel Security Clearance. Preference will be given to candidates with an existing U.S. DoD Personnel Security Clearance. Further information on requirements to obtain a security clearance is available at: http://www.dss.mil/psmo-i/ps_faqs.html. Please review this information before applying.

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