



Job Title: Opto-Mechanical Engineer

Location: Denver, CO

Company:

Foro Energy is commercializing high power lasers for the oil, natural gas, geothermal, and mining industries. Our unique capability and hardware platform to transmit high power lasers over long distance fiber optic cables enables step change performance in applications to drill, complete, and workover wells. Launched in 2009, Foro Energy is built upon a decade of academic work at the Colorado School of Mines with a novel approach to bust through the “sound barrier” of Stimulated Brillouin Scattering that previously made it impossible to transmit high power lasers over long distance fiber optic cables. Soon thereafter, this innovation was recognized with a large award from the U.S. Department of Energy’s ARPA-E transformational energy technology program. Our world class team with 200+ years of advanced technical experience in high power lasers and oilfield engineering has subsequently made 8 enabling technical achievements that allow deploying high power lasers for the first time in these markets. With this unique capability and a portfolio of 40+ US and international patent filings, Foro Energy works closely together with partners to enable access to the next generation of the world’s energy resources. www.foroenergy.com

Responsibility:

The Opto-Mechanical Engineer will join a team of highly skilled mechanical engineers, laser engineers and technicians in the development of laser based tools that must be able to withstand extreme environments. This position reports to the Vice President of Development. Foro Energy is focused on applying the new high power fiber laser technology in applications requiring extremely high power (>20 kW) and high beam quality (>30 mm-mrad) to achieve breakthrough performance in each application. Testing will be conducted at the facility as well as an offsite location. Due to the unique nature of these systems, it will be important to perform mechanical stress analysis as well as thermal analysis.

Experience:

- Candidate should have at least 3-5 years experience in developing industrial grade laser processing technology.
- Candidate should be used to working in a product development environment using a stagegate process

- Ideal candidate will have successfully worked on a team that has successfully designed, developed and deployed a ruggedized optical system in harsh environments.
- Experience working in a large company with small company experience a plus.

Skills:

- The candidate must be a high energy, detail oriented team member.
- Experience with Optic design, FEA analysis of mechanical stresses and thermal loads is required.
- Able to work with 3-D design software such as Solid Works and must be familiar with interfacing CNC machines with the mechanical drawings.
- Ability to accurately communicate results and record experimental procedure is essential

Attributes:

No politics, only straight, aggressive, logical thinkers with abundant energy and a desire for excellence and success. Must be hands on and team oriented. The individual's personal style will need to be suited to a culture, which is entrepreneurial, fast paced, value-driven, and with very high corporate standards. The individual will need to be very comfortable working in a lean structure; highly customer focused with strong ethical and moral standards.

Education: BS Degree in Opto Mechanical Engineering or equivalent, Advanced Degree preferred.