

## SENIOR MECHANICAL ENGINEER

TAE, based in South Orange County, is a unique company working in the area of energy research in association with local academia, national labs and an international consortium of institutions. We have an opening for a Sr. Mechanical Engineer, who is responsible for the design and fabrication of miscellaneous large structures of bolted or welded design. There may be additional work with stainless or quartz vessels.

### **Essential Duties and Responsibilities:**

- Complete scoping design and simple analysis of large experimental systems
- Direct design engineers and analytical staff
- Locate and select qualified manufacturers
- Write specifications and procedures
- Place purchase orders and follow fabrication and delivery
- Responsible for installation
- Responsible for schedule and cost
- Some limited travel required

### **Requirements:**

- B.S. or M.S. in Mechanical Engineering
- At least 10 years relevant experience in large component design and fabrication
- Detailed understanding of mechanical component design
- Experience in the design and fabrication of large multi-disciplinary projects involving large scale components and complex systems
- Able to work independently, as well as a member and coordinator of a team
- Able to manage multiple priorities effectively and have proven decision-making skills
- Capable of reading machining drawings
- Knowledge of stainless steel and Inconel materials
- Good verbal and written communication skills

### **Software Knowledge and Skills:**

- MS Office
- CAD experience preferred

### **Other Preferred Knowledge, Skills and Abilities:**

- Basic understanding of high voltage electrical systems and familiarity with electromagnets
- Experience with high vacuum systems
- Experience in fusion, fission nuclear power, other type power plants, or large industrial facility
- Experience with large research and development project

Please submit resume and cover letter to [jobs@trialphaenergy.com](mailto:jobs@trialphaenergy.com) and reference Req. #2014-020.