VACUUM TECHNICIAN

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 Vacuum Technician, who is responsible for providing necessary mechanical and technical support to scientific and engineering staff in the vacuum system department of a dynamic research and development facility.

Essential Duties and Responsibilities:
Under limited supervision, perform assembly, troubleshooting and maintenance of small to large (>25m³) UHV vacuum systems
Assist diagnostics in preparing pieces to build various diagnostic devices, including cleaning and baking parts for the system
Maintain proper environment in the UHV lab conducive to creating better vacuum systems
Protect the company’s investment in machinery, equipment, and facilities by exercising care, skill and knowledge
Control costs by conserving use of equipment and supplies
Maintain daily logs
Read and interpret work orders and equipment manuals to determined required maintenance and service
Perform other assigned duties as required
Comply with all safety regulations and maintain clean and orderly work areas

Requirements:
High school diploma or GED and completion of a craft apprenticeship, or an equivalent number of years of education and production maintenance experience
Preferred: AA degree in mechanical, electrical, or industrial maintenance and other recognized qualifications gained in apprenticeship(s) or college
Hands on experience in equipment maintenance and calibration of such equipment as: vacuum rough, cryo and turbo pumps, leak checkers, vacuum bake ovens and sonicators
Ability to use basic mathematics together with basic drawings and specifications involving technical skill, knowledge, and application of basic vacuum theory.

Project Experience:
At least 5 years of experience with large vacuum systems in a scientific, research, or industrial environment
Decent understanding of vacuum theory and techniques, into the UHV range

Computer & Software Knowledge and Skills Required:
Standard PC/Mac OP skills, Email, MS Excel and Word, and ability to learn new software packages.

Other Required Knowledge, Skills and Abilities:
Flexibility and ability to multi-task and/or switch rapidly between assigned tasks
Ability to learn and comply with all safety regulations
Willingness to work in confined spaces using appropriate safety equipment
Ability to lift and move objects up to 50 pounds
Ability to speak and read English
Ability to work independently, as part of a collaborative team within a multi-cultural environment
Detail oriented
Ability to adapt previous vacuum experience to different situations

Other Preferred Knowledge, Skills and Abilities:
Familiarity with working with hazardous chemicals: Hydroflouric and nitric acids, hydrogen peroxide for example
Speaking Russian
Basic electrical skills

Please submit resume and cover letter to jobs@trialphaenergy.com and reference Req. #2015-003.