



## **ENGINEERING/CRYOGENICS TECHNICIAN (Cryogenic Systems Engineering)**

*Woburn, MA*

Giving everyone in the world access to clean, reliable, affordable energy will require substantial expansion of global electricity transmission networks. VEIR is developing a new generation of High Temperature Superconductor (HTS)-based transmission lines, enabling long distance, reliable, low loss, cost-effective power transfer in far smaller right-of-ways. VEIR's innovations overcome the main barriers to transmission expansion, enabling the world to access the very lowest cost renewable power.

VEIR is seeking a qualified **Engineering/Cryogenics Technician** to join our team. This individual will support VEIR's Cryogenic Systems Engineering team in designing, constructing, and maintaining VEIR's liquid Nitrogen supply infrastructure for both laboratory operations and grid tied product delivery systems.

### **DUTIES & RESPONSIBILITIES:**

- Maintain, operate, and improve the bulk Nitrogen supply infrastructure at VEIR's technology development facilities – VEIR operates a world class LN2 supply system to facilitate full scale testing of our hardware – The ideal candidate will have years of experience in the operations of bulk cryogenic storage systems and equipment to help improve the system collaboratively with the engineering team
- Serve as an in-house cryogenic construction expert; frequently supporting activities at VEIR with TIG and MIG welding as well as silver brazing skills
- Work with liquid nitrogen flows, pressurized systems, energized electrical equipment, hand-operated power tools, basic machine shop equipment and forklift
- Work collaboratively with engineers to design bulk liquid nitrogen supply systems that are world class regarding operation, durability, safety, and reliability
- Be part of the "boots on the ground" team at VEIR to lead the construction of VEIR's outdoor technology demonstrations and customer deployments
- Collaborate with the experimental team, to facilitate tests and test bed changes as the need dictates
- Work with other personnel as appropriate to conduct technical work
- The company expects all Engineering/Cryogenic Technicians to exercise independent judgment and discretion with regards to design, installation and assembly of laboratory test stands and equipment, maintenance of experimental facilities, use of data acquisition systems, and the conduct of experiments to investigate the performance of VEIR subsystem prototypes.

### **MINIMUM EDUCATION/EXPERIENCE:**

- Associate's degree in a relevant field plus at least 3 years of related professional experience, or an equivalent combination of education and experience
- Experience with civil, mechanical, and electrical construction of bulk cryogenic storage systems
- Expertise in troubleshooting and operating cryogenic equipment (e.g. bulk tanks, electric pressure builders, valves, pumps, etc.)
- Experience working with process piping
- Experience in basic fabrication methods (e.g. welding, brazing, milling machines, lathe turning, sheet metal forming, etc.)
- In Depth working knowledge of process piping codes

### **PREFERRED EDUCATION/EXPERIENCE:**

- Associate's degree in a relevant field plus at least 7 years related professional experience, or an equivalent combination of education and experience.
- Experience in the installation, commissioning, and operation of cryogenic air separation units or PSAs.
- Certified process pipe fitter qualification
- Prior experience/employment with an industrial gas supplier

### **REQUIRED SKILLS:**

- Ability to build and maintain detailed understanding of VEIR technology and experimental procedures
- Thorough understanding of and demonstrated experience adhering to environment, safety, and health policies and procedures
- Sound knowledge and understanding of work hazards, safety practices and resolution of related issues
- Competency in technical work, such as handling cryogenics, welding, brazing; fabrication, carpentry and basic machining; following analytical procedures and methodology; characterizing and testing materials, using hand and power tools



- Exceptional internal customer service, organizational skills, and ability to interact with all levels of staff, service providers, and customers.
- Excellent oral, written and interpersonal communication skills across all levels of staff and management.
- Ability to work in a fast-paced, team-oriented environment
- Ability to work independently and take ownership of projects and assignments

**ADDITIONAL NOTES:**

- Working conditions: Laboratory environment, periodic work in outdoor environments (outdoor testbeds, pilot demonstrations)
- Future Work conditions: At customer and demonstration sites