

ENGINEERING/RESEARCH TECHNICIAN

Boston Area, 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/Research Technician** to join our team. This individual will support VEIR's Sr. Cryo Thermal Engineer in designing and executing experiments to evaluate the performance of VEIR cryogenic cooling subsystem prototypes.

DUTIES & RESPONSIBILITIES:

- Maintain laboratory site and experimental facilities, e.g., orderliness, cleanliness, coordination of craft work, site preparation, site clean-up, and waste management
- Design, construct and operate experimental stands; build and assemble mechanical and electrical laboratory equipment; set-up various types of sensing and recording equipment including data acquisition, cryogenic temperature sensors (77K), pressure sensors, flow meters, temperature control circuits, etc.
- Work with liquid nitrogen flows, pressurized systems, energized electrical equipment, hand-operated power tools, basic machine shop equipment and forklift
- Work with engineers to perform precision measurements in cryogenic testbed environment
- Record procedures, equipment, and parameters used in technical work. Capture and analyze findings and data
- Collaborate with the experimental team, interpret results, summarize outcomes, and plan next stages of technical work
- Work with other personnel as appropriate for the conduct of the technical work

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 mechanical and electrical construction of research equipment
- Expertise in troubleshooting and operating specialized laboratory equipment
- Experience working with and operating specialized laboratory and diagnostics equipment such as mechanical systems, data acquisition systems, cryogenic systems, fluid control systems; etc.

PREFERRED EDUCATION/EXPERIENCE:

- Associate's degree in a relevant field plus at least 5 years related professional experience, or an equivalent combination of education and experience.
- Experience following the scientific method to design, perform, record, and report experiments and results.

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, soldering; fabrication, carpentry and basic machining; following analytical procedures and methodology; characterizing and testing materials, using hand and power tools
- Ability to use research data acquisition systems (oscilloscopes/digitizers, temperature and pressure sensors, LABView).
- 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

ADDITIONAL NOTES:

- Working conditions: Laboratory environment, periodic work in outdoor environments (outdoor testbeds, pilot demonstrations)