

**Job Title:** Electrical Engineer  
**Location:** Wallingford, CT

Hydrogen... the most abundant element in the universe is your ticket to a rewarding future. Every day there are reports of how hydrogen (produced by water electrolysis and renewable energy sources) is displacing fossil fuels, reducing greenhouse gasses, and helping to revitalize our planet.

Nel Hydrogen is the global leader in on-site hydrogen generation and the largest electrolyzer manufacturer in the world. Armed with a full portfolio of water electrolyzers and hydrogen fueling station technologies, Nel Hydrogen is leading the charge into the new green hydrogen economy.

If you are driven by personal initiative combined with loyalty and commitment to your team and the ability to convert complex issues into simple solutions, then we want to talk to you. Help make the world a better place. Join a company that is on the cutting edge of new energy innovations, with an energized, progressive culture.

#### **Nel Hydrogen**

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### **POSITION SUMMARY**

A key contributor in the Large Scale Electrolyzer team that helps design and monitor core products. This position requires an Electrical Engineer to apply and demonstrate knowledge of power systems (power distribution and AC-DC conversion), electrical safety (protection, grounding/earthing), wiring selection, industry standards, and best practices for engineered systems.

### **RESPONSIBILITIES**

#### **Product Development**

- Designing power distribution systems through development of one-line drawings and electrical schematics, cable lists, load lists, and selection of circuit protection devices
- Work with vendors to develop and evaluate MCC assemblies, including VFD and transformer selection
- Develop specifications, performance criteria, and integration solutions for megawatt-scale AC-DC conversion / rectifier equipment.
- Evaluate the suitability of electrical products and components to meet technical, cost and codes and standards requirements
- Participate in cross functional project teams and execute individual project tasks including production documentation releases, test plans and reports, design documents
- Work with outside vendors/suppliers to evaluate production capabilities and documentation as well as to ensure integration of supplier's equipment into the overall system.
- Support FMEA, internal and customer HAZOP activities
- Define specifications for ancillary equipment to support core technology
- Verify system and component capability by developing and implementing robust testing methods
- Perform, as necessary, subsystem and system-level verification tests

#### **Product/Project support**

- Escalation for engineering support on customer project and equipment production; includes specific project customization requests
- Escalation for Field Issues related to discipline-specific subsystem; including root cause analysis including test protocol development and issue resolution implementation
- Implement product changes and retrofits based on field feedback
- Provide technical support to Applications Sales team during the bid process.

Special projects as required.

## QUALIFICATIONS

Education:

Bachelor's degree in Electrical Engineering or related field

Required Skills and Abilities:

- 4-6 years of industry related experience (Electrolysis, AC-DC conversion systems, power distribution preferred)
- Working knowledge, familiarity, and application of NEC, IEC, ISO, and CE Codes and Standards
- Knowledge and application of voltage ranges from 230VAC to 35kV, 3 phase applications (US and ROW applications)
- Commercial products or plant design experience preferred, specifically considering classified area locations per NFPA and ATEX
- Experience with proper grounding for protection of equipment and personnel
- Experience with industry standards for electrical workplace safety practices (ref. OSHA)
- Demonstration of experience simplifying designs, reducing costs and increasing the value of engineered systems
- Familiarity with medium voltage power systems and grid connections is a plus
- Motivated self-starter with high level of initiative and creative approach to problem solving.
- Ability to manage subsystem developments, including defining requirements and milestones and executing independently
- Capable of working well in a multi-disciplinary team environment
- Experience working with electromechanical devices is a plus
- Strong working knowledge of Microsoft Office; familiarity with ERP is a plus
- Limited travel could be required to vendor or customer sites
- Experience with AutoCAD or similar for electrical schematics is a plus

Competencies:

- Attention to Detail/Accuracy
- Problem Solving Skills
- Communication; verbally and written
- Time Management; priority goals
- Organization and planning
- Multi-tasking
- Collaboration
- Ethical Practice

The above statements reflect the principal functions of the position and shall not be construed as a detailed description of all work requirements that may be inherent in the job.

Nel Hydrogen provides comprehensive health and insurance benefits for its employees as well as a stock option plan. The Company offers competitive paid vacation time, sick leave, and holidays.

The Company has a published Code of Conduct that all employees are expected to follow.

#### Visas

- Nel will only employ those who are legally authorized to work in the United States. This is not a position for which sponsorship will be provided.
- Individuals with temporary visas such as E, F-1, H-1, H-2, L, B, J, or TN or who need sponsorship for work authorization now or in the future, are not eligible for hire.

We are an equal opportunity employer We are an equal opportunity employer-M/F/Disabled/Veteran and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, or any other characteristic protected by law. All employment is decided based on qualifications, merit, and business need.

To apply, please e-mail your cover letter and resumé to: [nelctcareers@nelhydrogen.com](mailto:nelctcareers@nelhydrogen.com).