

**Job Title:** Sr. Mechanical Design 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 electrolyser manufacturer in the world. Armed with a full portfolio of water electrolysers 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.

## POSITION SUMMARY

An immediate opportunity exists for a qualified candidate to participate in the product design and development of large-scale hydrogen generators. The large-scale products have recently been introduced to the market with the development of cost reduced and larger scale products under way. This position requires a mechanical engineer with a strong background in mechanical design, complex system assembly and a broad knowledge of mechanical engineering fundamentals to participate in the design of these systems.

## RESPONSIBILITIES:

- Develop, design, and select components for liquid and gas system assemblies, including fabrication requirements.
- Prepare and maintain bills of materials, drawings, and documentation for complex hydrogen generators and hydrogen production plants.
- Development of specifications for vendor designed / fabricated hardware with follow-on shop inspections of equipment, including piping, vessels, structures, etc.
- Develop general arrangement layouts of equipment and support site construction design details, equipment handling and installation, etc.
- Collaborate with other departments such as cell stack design, manufacturing/fabrication, and equipment vendors to ensure proper system design integration.
- Design for compliance to various industry standards (US and international)
- Provide system or sub-system technical direction overseeing engineers, vendors or 3<sup>rd</sup>-party designers for compliance with industry practices and defined specifications. This includes component, sub-system or plant-level design, handling, installation, and testing.
- Support manufacturing partners , as needed, to maintain design configuration, best practices and quality of existing product designs.
- Model or define parameters for analyses for mechanical strength, shipping/installation forces, etc. utilizing commercially available analysis tools.
- Develop and support critical engineering-driven product documentation such as design files, installation, operation and maintenance manuals, hazard evaluations, etc.

## Nel Hydrogen

10 Technology Drive  
Wallingford, CT 06492  
USA

T +1.203.678.2000  
F +1.203.949.8016  
E [info@nelhydrogen.com](mailto:info@nelhydrogen.com)  
W [www.nelhydrogen.com](http://www.nelhydrogen.com)

- Support the project implementation team, including evaluation of customer requests for site design, construction, installation, and operation feedback
- Mentoring of Junior Mechanical Engineers.

## QUALIFICATIONS:

### Education:

Bachelor's degree in Mechanical Engineering or related field

### Required Skills and Abilities:

- 5-7 years minimum of industry related experience (Hydrogen systems (preferred), large-scale chemical processing, gas and liquid delivery, fluid systems in power plants, or water treatment systems or plants).
- New Product Introduction (NPI) experience preferred
- Commercial products or plant design experience preferred.
- Experience with 3D CAD software including solid modeling (preferably with PTC Creo)
- Experience with finite element analysis (preferably with PTC CREO Simulate); computational flow dynamics (CFD) experience is a plus. Structural or construction design a bonus.
- Familiarity with piping system design standards, materials, and construction methods (ASME, PED, etc.) strongly preferred.
- Experience with conventional manufacturing methods required.
- Experience with large material (including ISO containers) handling, shipping, especially international is a plus.
- Motivated self-starter with high level of initiative and creative approach to problem solving.
- Excellent verbal and written communication skills.
- Strong organizational skills and ability to balance multiple tasks.
- Capable of working well in a multi-disciplinary team environment with high degree of collaboration, especially with 3<sup>rd</sup> party design contractors and partners
- 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

### Competencies:

- Attention to Detail/Accuracy
- Problem Solving Skills
- Communication
- Time Management; priority goals
- Critical Evaluation
- Relationship Management
- Consultation
- 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).