

Job Title: R&D Process Engineer
Department: Technology
Location: Wallingford, CT

Nel Hydrogen

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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 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.

POSITION SUMMARY

Serve as the process lead on R&D projects, contributing process knowledge for optimal translation of laboratory formulations to industrial coatings and material processes. · Act as a liaison between R&D, quality, and manufacturing to implement developed processes into commercial production.

RESPONSIBILITIES:

- Work closely with Materials Scientists and Chemical Engineers to develop advanced manufacturing processes to enable electrolyser cost reduction and efficiency improvements.
- Collaborate with external partners at National Labs, universities, and component suppliers to develop and characterize components.
- Apply engineering fundamentals to practical problem solving and develop and optimize robust component specifications to meet product requirements.
- Solve any engineering challenges encountered related to chemical and material aspects of design and manufacturing process of roll-to-roll coatings to achieve the precision and life-time performance for the resulting electrodes.
- Understand and link process effects to component performance.
- Manage production runs with new products and optimize process to achieve product quality requirements and maximum production throughput.
- Establish and maintain documented work instructions in collaboration with Manufacturing Engineers for process optimization and control standards.
- Clearly communicate progress and status of ongoing technical activities to the team, project management and senior management.
- Support training efforts on the science behind the process.
- Keep up to date with current and developing trends in coating industry.
- Identify key opportunities for improvement based on data analysis.
- Special projects as required.

QUALIFICATIONS:

Education and Experience:

Bachelor's Degree in Chemistry, Chemical or Mechanical Engineering or similar technical field.

Required Skills and Abilities:

- 5 to 10 years of related manufacturing.
- Background and experience in thin film coating of wide substrates.
- General understanding of manufacturing methods including a basic understanding of manufacturing process optimization.
- Experience working with various coating deposition equipment (e.g., gravure, slot die, reverse gravure, ultrasonic spray, PVD, CVD etc.).
- Knowledge of material and mechanical properties of coatings, polymer membranes, and backing polymers.
- Experience formulating and developing coating systems, including one component water-borne formulations.
- Good understanding and experience in verification methods (microscope, SEM, XPS etc.)
- Start-up line experience preferred.
- Able to travel (< 20%) as needed.
- Excellent analytical and experimental skills.

Competencies:

- Strong communications and teamwork skills, with all levels
- Collaboration
- Critical thinking
- Ownership
- Attention to detail
- Excellent leadership skills
- High ethical standards
- Results driven with demonstrated follow through
- Sound judgement

Physical Requirements:

- Prolonged periods sitting at a desk and working on a computer.

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.