Materials Engineer
- South Windsor, CT
- Full-time

Company Description
Doosan is a renowned multi-national infrastructure, energy, and construction equipment business headquartered in South Korea. With revenues of over $20 billion last year, and over 40,000 people working in over 40 countries.

Doosan has expanded its global footprint on July 21, when Doosan Corporation announced the establishment of Doosan Fuel Cell America, a prestigious fuel cell business based in South Windsor, Connecticut. Doosan Fuel Cell America is delivering innovative and smart energy solutions today for businesses globally. Our innovative fuel cells are created for a wide range of applications and enable our customers to significantly lower their electricity bills, improve the energy efficiency of their facility or business, and reduce their carbon emissions by utilizing new clean tech solutions.

Job Description
Materials Engineer is responsible for evaluating and developing new materials for fuel cell power plant components to reduce cost. New cost reduction initiatives range from evaluating novel materials for electrodes, bipolar plates etc. This position requires expertise with various lab scale equipment such as IR measurement rigs, corrosion rigs, microscopy etc. This position assumes that the materials engineer will provide expert guidance or be a core team member in performing various root cause investigations associated with any defects / failures of power plant components.

Qualifications
Cell component development
- Develop new low cost materials for electrodes and bipolar plates.
- Select proper materials for components in various temperature and corrosive conditions
- Perform should cost analysis to ensure product design meet cost requirements

Production Support
- Use root cause processes to resolve production or field issues
- Communicate with suppliers to ensure processes align with design intent

Component Validation
- Perform FMEA on components to determine largest risks to product success.
- Produce verification and validation test plans to ensure new materials / designs meet requirements

Communicate Technical Information
- Communicate with suppliers, manufacturing engineers and test engineers to address any technical questions.
Education & Qualification
- Master Degree or PhD in Materials or Chemical Engineering

Knowledge & Skill
Job-related
- Strong expertise in carbon composites preferred. Experience with polymeric materials a plus

Experience
- 5+ years of materials engineering experience.
- DFx (Manufacturing, Assembly, Cost, etc.) is a plus.

Global Breadth
- Job may include up to 20% travel

Additional Information
All your information will be kept confidential according to EEO guidelines.

To apply: