



Materials Science Engineer (Contract)

Job Description

Singer Vehicle Design is looking for a Materials Science Engineer to develop technical solutions and improvements to vehicle paint systems, protective and aesthetic coatings and finishes, composites, adhesives, and corrosion prevention processes. These engineering solutions will drive quality, throughput, and cost improvements throughout the entire vehicle restoration process. This position is on a part-time contract basis.

Role and Responsibilities

- Investigate quality issues resulting during the vehicle restoration processes. Conduct root cause analysis and design and implement solutions.
- Develop quality standards and non-destructive testing methods for all vehicle paint systems, coatings, and finishes to ensure quality and long-term durability.
- Conduct research and development for all vehicle materials, paint systems, coatings, and finishes. Design representative coupon testing and trials, define engineering requirements, qualify materials and suppliers.
- Work with engineering and quality teams to create and optimize body, surface, and paint processes and equipment.
- Develop engineering solutions to optimize vehicle paint system hardness, consistency, carbon print through.
- Reduce usage of surfacing materials and filler on composite body panels.
- Implement corrosion assessment, control, and prevention solutions for steel unibody chassis.
- Improve nickel plating process across a wide variety of substrates. Reduce defects, rework, thickness inconsistency, oxidation and wear.

Job Requirements

- Applicants must be authorized to work in the United States
- Bachelor's Degree in Materials Science Engineering or similar field
- 3 – 7+ years of related experience
- Experience working with composites, metals, and polymers/plastics
- Desire and ability to work hands-on on the shop floor
- Experience working and developing solutions with external suppliers/vendors
- Aptitude to interface with high level individuals, executives, company associates, and vendors
- Team oriented, strong ability to multi-task and work in a fast-paced environment and to multiple deadlines
- Extremely strong communication and interpersonal skills; both oral and written
- Strong organizational skills with the ability to prioritize effectively and efficiently

Preferred Skills

- Experience in body, and/or paint shops in automotive or aerospace industry
- Experience with coatings for corrosion protection, electroless and electrolytic plating, and conversion coatings
- Experience with composites manufacturing, assembly, joining techniques
- Experience in project engineering/management