Sr. Manufacturing Engineer, BIW | Tesla 工作機會

The Role

In addition to developing manufacturing equipment and processes, Sr. Manufacturing Engineers work with cross-functional teams throughout the entire product lifecycle. The successful candidate will work closely with Design Engineering, Quality, Production, Maintenance and External Vendors to take vehicle design changes and new vehicle designs from initial concept layout into full production.

Responsibilities:

- Collaborate closely with Design Engineering to drive Design for Manufacturability in future programs early in the design phase.
- Develop process designs that form the basis of high volume production lines and support Tesla's industry-leading dimensional quality of the vehicles produced.
- Take direct responsibility for achieving dimensional quality targets and lead all activities towards this objective including the development of GD&T strategies, quality control plans and dimensional improvement plans.
- Drive tooling design and development in accordance with the process plan and GD&T strategy, working closely with Tesla's partner vendors to buy-off and deliver the final product.
- Participate in the development and review of early project planning documents such as project timelines, Requests for Quotations, FMEA's and Safety Risk Assessments.
- Lead the development and introduction of processes and equipment associated with early prototype builds, and highlighting key process and equipment improvement opportunities throughout the prototype builds themselves.
- Arrange and participate in line design reviews of robot and tooling simulations, cycle time plans, and general line layout, driving optimization towards fundamental engineering limits.
- Lead the installation, commissioning and ramp of high volume production lines, ensuring close collaboration with Tesla's partner vendors to deliver the line in the shortest possible timing and within project budgets.
- Collaborate with cross-functional teams to improve safety, quality and efficiency metrics during the ramp of production.
- Collect and prepare the final documentation handover package to ensure the long-term sustainability and optimization of new production lines.

Requirements:

- B.S. in Mechanical, Manufacturing, or Electrical Engineering; Advanced degrees, Masters or PhD, are highly preferred; or equivalent experience and evidence of exceptional ability.
- 5 years or more of relevant work experience, and education experience in college is not counted
- Able to function independently, be a strong team player, detail oriented, organized, hands-on and able to make strong decisions.
- Work well under pressure while managing competing demands and tight deadlines.

- Remain engaged, proactive and positive in tough circumstances, owning assignments and taking full accountability for their success.
- Maintain flexibility and adaptability to changing priorities and assignments, coping with rapidly changing information.
- Be results and data driven, and able to effect change based on data.
- Have working knowledge of Design for Manufacturability.
- Strong familiarity with structured problems solving methodologies (DMAIC, 8D, etc).
- 3D CAD experience in reviewing and modifying 3D models of tooling and product.
- Experience creating various reports and database tools for presentation to Executive Leaders within the organization.
- Experience with PLC programming, troubleshooting, and configuration is preferable
- Experience with robot programming, backup and restoration is preferable