WEISS-AUG GROUP
MANUFACTURE SMARTER

https://weiss-aug.com/job/prototype-tooling-part-designer-estimator/

Prototype Tooling & Part Designer / Estimator

Hiring organization
Weiss-Aug Group

Employment Type
Full-time

Job Location
148 Prominence Dr, 15068, New Kensington , PA

Date posted
November 8, 2022

Description

The Prototype Tooling & Part Designer / Estimator will be responsible for working with customers on designs for Prototype Tooling (1-Up Tooling, Fixturing), Getting Quotes & Estimates for Fabrication.

Responsibilities

- Design high-precision mold tooling for prototype, through high-volume production of complex tight-tolerance products per W-A Tooling Engineering standards. This includes, but is not limited to: preparation of product drawing/model for use in tool design, generate or approve both the initial tool layout concept and final tool design (includes factors such as tool size/base, parting line, ejection, gates, runners, water lines and drafting as applicable per tooling type), generate or approve the creation of detailed tool component and assembly drawings, and generate and approve tool qualification plan that includes parameters to be evaluated before taking delivery of fabricated tools. Responsible for ensuring that design projects result in robustly operating tools that consistently produce quality product at the required rates.
- Identify new design and mold tooling technologies to keep Weiss-Aug at the cutting edge as related to simulation and improved costs/time to market.
- Process data (layouts) for use in WEDM and CNC machining.
- Create and modify internal product drawings for inspection and other purposes.
- Design fixtures, gages and other custom tooling or equipment as required.
- Review customer drawings and specifications for manufacturing feasibility.
- Participate in supporting Quote of Tooling, Tooling Kickoff, Feasibility/Specification Review, Design Review and Lessons Learned (Postmortem) Meetings to establish Production Ready Tooling.

Qualifications

- Minimum of 5 yrs of experience designing and/or fabricating complex tooling along with high-volume and/or tight tolerance products is preferred.
- 2-yr. technical degree required; 4-yr engineering degree preferred. Equivalent experience in a hands-on technical position, such as tool maker/apprentice, may be considered as a substitute for degree.
- Very Proficient 3D SolidWorks design package along with 2-D experience (i.e. DraftSight, AutoCAD, SolidEdge). Experience analyzing simulation software and editing desirable.
- Ability to read blueprints and other technical documents. Requires understanding of ANSI/ISO drawing standards and GD&T dimensioning.
- Demonstrated knowledge of injection molding industry and practices, or related tooling experience.
- Basic understanding of the functioning and major components of equipment in which tooling will be utilized. Understanding of ancillary equipment desirable.
- Knowledge of Wire EDM and/or CNC machining technologies.