

Tool, Die, and Fixture Maker – Position Description

Job Title:	Tool, Die, and Fixture Maker
Department:	Engineering
Reports to:	Manufacturing Engineering Manager
FLSA Status:	Non-Exempt
Prepared by:	Human Resources
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Job Summary:

LDJ Manufacturing is home to the Thunder Creek Equipment brand of premium diesel fuel and service trailers. We are an industry leader known for our uncompromising quality and reliability. LDJ is a family-owned company, with strong Midwest roots and values, and a passion to develop, manufacture, and market innovative solutions that provide value to our customers in the agricultural, construction, and oil industries throughout the United States.

Reporting to the Manufacturing Engineering Manager, the Tool, Die, and Fixture Maker is responsible for the design, development, building, calibration and repair of tools, jigs, fixtures, and other items utilized in a robotic manufacturing environment. The Tool, Die, and Fixture Maker will work collaboratively with the Engineering and Manufacturing teams in the development of these items.

Duties/Responsibilities:

- Exhibit LDJ's core values and culture in all aspects of the job.
- Support Manufacturing Engineering to design and build fixtures and gages for assembly line and robotic welders using documented designs.
- Propose design changes and improvements to existing jigs and fixtures.
- Maintain jigs and fixtures through a preventive maintenance program.
- Maintain a clean and safe work area by following clean-up and housekeeping procedures and observing all prescribed safety regulations.
- Additional duties as assigned by manager.

Supervisory Responsibilities:

None

Required Skills/Abilities:

- Proficient in designing jigs, fixtures, and other items in 3D CAD (SolidWorks strongly preferred).
- Previous experience building jigs and fixtures – weld fixture experience is preferred.
- Ability to read and understand blueprints including machining tolerances, GD&T, and weld symbols.
- Ability to build jigs and fixtures to print using manual and CNC machining equipment, welders, hand tools, etc., including the ability to program CNC both conversationally and with G & M Codes.
- Ability to set up CNC equipment for production runs including cutting tool selection and inventory.
- Understand the use of hydraulic and pneumatic clamping / sequencing and can install and maintain these systems.
- Ability to set-up and run all standard machine shop equipment- lathes, mills, surface grinders, etc.
- Ability to work to tolerances of +/- 0.002"
- Knowledge of shop math and GD&T.

- Have a high sense of urgency and the ability to meet schedule requirements.
- Work independently and efficiently to complete projects with minimal supervision.
- Inspect and confirm conformity of all engineering requirements.
- Problem-solving skills.
- Strong attention to detail.
- Ability to prioritize and multi-task to keep projects on schedule.

Education and Experience:

- High school diploma or GED required.
- Four-year journeyman apprenticeship training or equivalent experience.
- Minimum of three years manufacturing experience in the Tool & Die industry.
- Currently have or be able to obtain a forklift license within the first 90 days.

Travel

This position requires minimal travel, but it is preferred to have the ability to travel up to 5% of the time with a valid driver's license.

Physical Requirements:

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions. While performing the duties of this job, the employee is regularly required to stand, walk, sit, talk, and hear. The employee is often required to reach with hands and arms; climb or balance; and stoop, kneel, crouch, or crawl. The employee must be able to lift and/or move up to 50 pounds without restrictions. Specific vision abilities required by this job include close vision and ability to adjust focus.