

tool and die design in the United States Now

Tool and Die Design in the United States Now

Tool and die design and manufacturing are crucial aspects of the manufacturing industry, involving the design and creation of tools, dies, and other fixtures used to produce parts and components. In the United States, this field is experiencing both advancements and challenges:

Job Market & Outlook:

- **Current Employment:** There are an estimated 62,700 tool and die makers currently employed in the US.
- **Declining Job Outlook:** The job market for tool and die makers is expected to shrink by 8.5% between 2022 and 2032, with an estimated loss of 100 jobs annually due to factors like automation. Despite this, around 35,400 job openings are projected each year over the next decade due to replacements needed for transferring or retiring workers.
- **Employability Rating:** CareerExplorer rates tool and die makers with a poor "F" employability rating, indicating limited employment opportunities in the foreseeable future.

Salaries:

- **Average Hourly Pay (Tool and Die Designer):** As of June 4, 2025, the average hourly pay for a Tool and Die Designer is \$29.19. Most wages range between \$24.76 (25th percentile) and \$30.05 (75th percentile).
- **Average Hourly Pay (Tool and Die Maker):** As of June 7, 2025, the average hourly pay for a Tool and Die Maker is \$28.40. Most Tool and Die Maker wages range between \$25.00 (25th percentile) and \$31.49 (75th percentile).
- **Average Annual Salary (Tool and Die Maker I):** As of June 1, 2025, the average annual salary for a Tool and Die Maker I is \$66,353.
- **Average Annual Salary (Senior Tool and Die Maker):** As of June 1, 2025, the average annual salary for a Senior Tool and Die Maker is \$84,020.
- **Salary Influencing Factors:** Pay can vary based on experience level, location, and the specific company. California, for instance, reports higher average salaries for Tool and Die Maker positions.

Technology & Trends:

- **Automation:** Advancements in automation, including CNC machine tools, are impacting the industry by increasing efficiency and potentially reducing demand for certain tasks.
- **CAD/CAM Software:** These tools are widely used in tool and die design and manufacturing.
- **3D Printing:** Technologies like 3D printing are beginning to be used in the industry for rapid prototyping and creating tooling components.

Skills and Qualifications:

- **Technical Knowledge:** A strong understanding of blueprints, design schematics, CAD drawings, metal properties, and machining procedures is essential.
- **Hands-on Experience:** Experience with metal working tools, including drills, milling machines, grinders, and lathes, is important.
- **Attention to Detail & Problem-Solving:** These skills are critical for ensuring precision and addressing issues.
- **Communication & Teamwork:** The ability to work effectively with others and communicate technical information clearly is often required.
- **Education:** A high school diploma or equivalent is typically required, with postsecondary training or apprenticeships in tool and die making being beneficial. Experience and skills can be gained through various programs, including vocational schools and community colleges.

Summary: The tool and die design field in the US is characterized by a declining job market but continued need for skilled professionals due to replacements. While automation is increasing efficiency, a strong foundation in technical skills, hands-on experience, and problem-solving abilities remains crucial for success in the field.

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17 sites

- Tool and Die Maker I Salary in the United States

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Salary.com

- Tool And Die Maker Salary: Hourly Rate June 2025 USA - ZipRecruiter

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ZipRecruiter

- The job market for tool and die makers in the United States

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