

## US DEPARTMENT OF LABOR & GOENGINEER MECHANICAL CAD DESIGNER APPRENTICESHIP PROGRAM

Registered Apprenticeship is a national system that offers on-the-job training in many of today's sought-after careers through partnership with businesses like yours. GoEngineer is now offering a Mechanical CAD Designer Apprenticeship in all states.

Upon full completion of the apprenticeship program, participants will receive a US Department of Labor Journeyman's Card.

Building a Registered Apprenticeship Program has many advantages for you and your employees, such as:

- a systematic approach to training
- the ability to conduct assessments of where the employer and employee are in terms of continued improvement
- increased productivity and knowledge transfer due to on-the-job learning

Working with GoEngineer as a Registered Apprenticeship sponsor, you are responsible for recruiting and leading apprentices as they learn and complete 4,000 hours of on-the-job training. GoEngineer will be there to help you and your employee through every step of the process. There is no cost to the apprenticeship program beyond the price of required and elective training courses. GoEngineer training bundles can offer savings on many of the courses required.

**GoEngineer's Apprenticeship Program is authorized by the US Department of Labor.**  
For more information, contact [info@goengineer.com](mailto:info@goengineer.com) or 1.800.688.3234

## THE TWO-YEAR PROGRAM CONSISTS OF:

CORE	HOURS	ELECTIVES	HOURS
SOLIDWORKS Essentials	32	Large Assembly	8
SOLIDWORKS Advanced	32	Routing - Piping & Tubing	16
Advanced Drawings	24	Routing - Electrical	16
SOLIDWORKS Sheet Metal & Weldments	16	Simulation Essentials	16
Advanced Surface Modeling	16	Simulation Advanced	16
Mold Design	16	Simulation - Dynamics	16
	<b>136</b>	Simulation Premium: Nonlinear	16
		Flow Simulation	16
		Plastics Essentials	16
		Plastics Advanced	16
		Motion Simulation	16
		SOLIDWORKS Composer	24
		SOLIDWORKS Visualize	16
		SOLIDWORKS Electrical Schematics	24
		SOLIDWORKS Electrical 3D	8
		CAM Standard	16
		CAM Professional	16
		Certified Associates Exam	0
Core and elective courses must equal a minimum of <b>288 Hours</b>			

For more information regarding SOLIDWORKS Certifications visit

[goengineer.com/solidworks-certification](http://goengineer.com/solidworks-certification)



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# WORK PROCESS SCHEDULE

## OCCUPATIONAL TITLE: MECHANICAL CAD DESIGNER:

Description: Use software to create designs into technical drawings and plans. Emphasis is placed on the applications, procedures and techniques of principles involved in industrial drafting and design techniques.

On-The-Job Training: Apprentices will receive training in the various work experiences listed below. The order in which this training is given will be determined by the flow of work on the job and will not necessarily be in the order listed.

The times allotted to these various processes are the estimated times which the average apprentice will require to learn each phase of the trade. They are intended only as a guide to indicate the quality of the training being provided and the ability of the apprentice to absorb this training in an average amount of time. The total term of apprenticeship is indicated below.

### EMPLOYER / APPRENTICE RELEVANT DUTY ASSIGNMENTS

APPROX. HOURS

Use computer software to develop detailed design drawings and specifications for mechanical equipment, dies, tools, and controls, using computer-assisted drafting (CAD) equipment.	1,000
Lay out and draw schematic, orthographic, or angle views to depict functional relationships of components, assemblies, systems, and machines.	600
Position instructions and comments onto drawings. Review final product design and suggest improvements as needed.	500
Prepare product design or rough drawings, discussing them with clients or supervisors and making necessary changes.	550
Sketch and print charts, graphs, illustrations and other designs using computer.	200
Prepare notes and instructions for workers who assemble and prepare final layouts for processing.	400
Maintain archive of design, graphics or previous work products.	350
Study designs and drawings to plan presentation of products.	200
Research new designs, new technology concepts and trouble shoot problems.	200
<b>TOTAL APPROXIMATE HOURS:</b>	<b>4,000</b>

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