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RESTORE JOBS

A submission to
BAY COUNTY RESTORE ACT ADVISORY COMMITTEE
from GULF COAST STATE COLLEGE
& Industry Partners

RESTORE Jobs

- RESTORE Jobs is a 3D modeling and manufacturing program that **will train 120 area artists**, **building contractors, crafts/trades people, displaced workers** seeking new skills, new entrants to the workforce, **start-up entrepreneurs** and **retired military** in the design and fabrication of art pieces, architectural and structural components, furniture, house wares, machine parts, signs and dozens of other economically necessary three-dimensional products in metals, plastics or wood composites.

- RESTORE Jobs will provide trainees with the **computer-based design and fabrication knowledge and skills** necessary to respond to the area's growing economic demands for (custom and standard) three-dimensional products, through the use of multi-axis, computer-controlled routers for manufacturing.

- **Trainees will receive 48 hours of digital 3D design/modeling instruction** in: Computer-Aided Drafting and Design Manufacturing, CNC Machining, and Rapid Prototyping using multiple software platforms. **Trainees will also receive 48 hours of digital 3D fabrication/manufacturing training** to produce 3D objects based on their original 3D designs/models through computer-controlled router systems. The fabrication/ manufacturing training will utilize both small (shop-sized) and industrial-capacity 3D router systems.

- To support these primary knowledge and skills training components, participants will also receive **hands-on instruction in the assembly and use of small (shop-sized) Do-It-Yourself (buy and build) 3D CNC routers** to provide the knowledge and skills necessary to acquire and utilize the affordable 3D CNC router units most appropriate for individual crafts/trades people and/or small businesses with 3-5 employees.

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RESTORE JOBS Impact

- Manufacturing of Durable Goods
- Manufacturing of Non-Durable Goods
- Fabrication & Assembly
- Up-skilling of Craft Industry

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Custom 3D Fabrication

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CNC Milling Metal

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CNC Milling Wood

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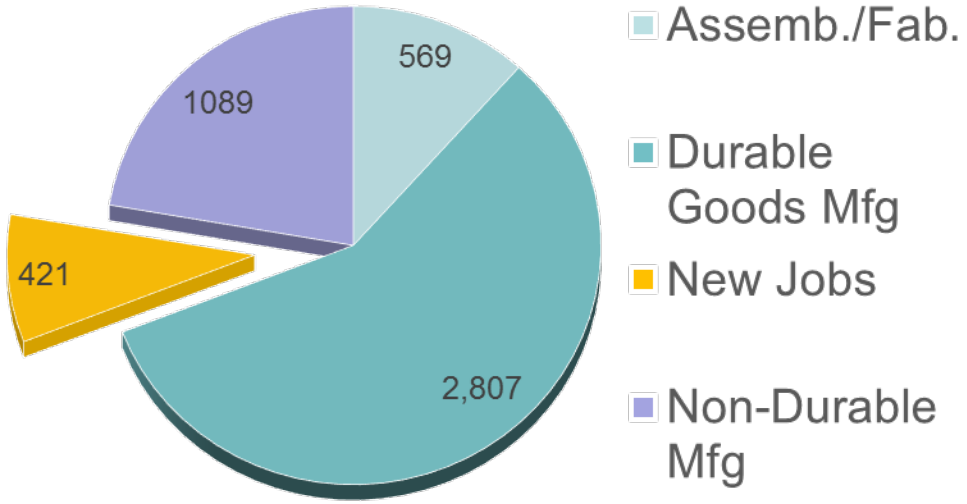
Woodworkers

Workers use automated machinery, such as computerized numerical control (CNC) machines, to do much of the work.

Machinists

Machinists and tool and die makers set up and operate many different machines.

Workforce Region IV Job Projections 2014-2022



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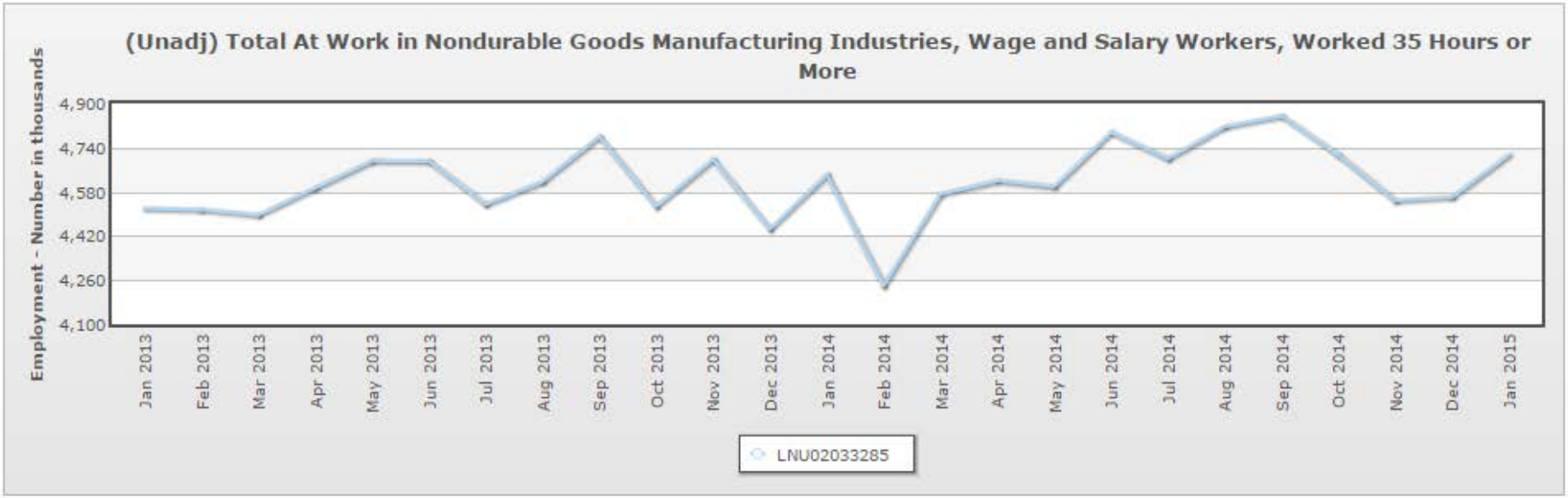
Workforce Region 4 - Bay, Franklin, and Gulf Counties

Durable Goods Manufacturing jobs data from DEO & UWF HAAS Center (EMSI)

	Employment				2014 - 2022 Change			
Title	2014		2022		Total		Percent	
	DEO	EMSI	DEO	EMSI	DEO	EMSI	DEO	EMSI
Manufacturing	3,896	3,674	4,101	4,337	**205**	**663**	**5.3%**	**18.0%**
Durable Goods Manufacturing	2,807		3,104		297	0	10.6%	
Wood Product Manufacturing	134	112	175	166	41	54	30.6%	48.2%
Nonmetallic Mineral Product Manufacturing	94	99	112	112	18	13	19.1%	13.1%
Primary Metal Manufacturing	305	162	339	144	34	-18	11.1%	-11.1%
Fabricated Metal Product Manufacturing	148	159	156	160	8	1	5.4%	0.6%
Machinery Manufacturing	345	329	455	326	110	-3	31.9%	-0.9%
Computer and Electronic Product Manufacturing	93	94	103	169	10	75	10.8%	79.8%
Electrical Equipment and Appliance Manufacturing	59	59	75	63	16	4	27.1%	6.8%
Furniture and Related Product Manufacturing	46	38	42	<10	-4	N/A	-8.7%	N/A

Non-Durable Goods Manufacturing & Craft Production



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Quick Facts: Machinists and Tool and Die Makers	
2012 Median Pay	$40,910 per year $19.67 per hour
On-the-job Training	Long-term on-the-job training
Number of Jobs, 2012	476,200
Job Outlook, 2012-22	7% (Slower than average)
Employment Change, 2012-22	33,700

Quick Facts: Woodworkers	
2012 Median Pay	$28,440 per year $13.67 per hour
Number of Jobs, 2012	202,700
Job Outlook, 2012-22	8% (As fast as average)
Employment Change, 2012-22	15,700

Timeline & Deliverables

The RESTORE Jobs objectives are the training of an initial pool of 120 high-skilled digital design/modeling and 3D fabrication/manufacturing specialists and the placement of those trainees successfully completing the project in high-demand, high-wage jobs in Bay County. The preliminary milestones are:

- 1. June 2015-Janaury 2018 – Outreach to identify and recruit trainees
- 2. June 2015 – Acquisition and installation of necessary training equipment and supplies
- 3. August-October 2015 – Design/modeling training, 3D router fabrication/manufacturing training, Job placement for 1st cohort of 20 trainees
- 4. November 2015-January 2016 – Design/modeling training, 3D router fabrication/manufacturing training, Job placement for 2nd cohort of 20 trainees
- 5. February-April 2016 - Design/modeling training, 3D router fabrication/manufacturing training, Job placement for 3rd cohort of 20 trainees
- 6. April-June2016 – Design/modeling training, 3D router fabrication/manufacturing training, Job placement for 4th group of 20 trainees
- 7. August-October 2016 – Design/modeling training, 3D router fabrication/manufacturing training, Job placement for 5th cohort of trainees
- 8. November 2016-January 2017 – Design/modeling training, 3D router fabrication/manufacturing training, Job placement for 6th cohort of trainees
- 9. February-April 2017 - Design/modeling training, 3D router fabrication/manufacturing training, Job placement for 7th cohort of 20 trainees
- 10. April-June 2017 – Design/modeling training, 3D router fabrication/manufacturing training, Job placement for 8th cohort of 20 trainees
- 11. August-October 2017 – Design/modeling training, 3D router fabrication/manufacturing training, Job placement for 9th cohort of trainees
- 12. November-December 2017 – Design/modeling training, 3D router fabrication/manufacturing training, Job placement for 10th cohort of trainees

RESTORE Jobs project evaluation will be ongoing from June 2015 through January 2018.

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