

# FOCUS ON MACHINIST

Houston Gulf Coast Region\*

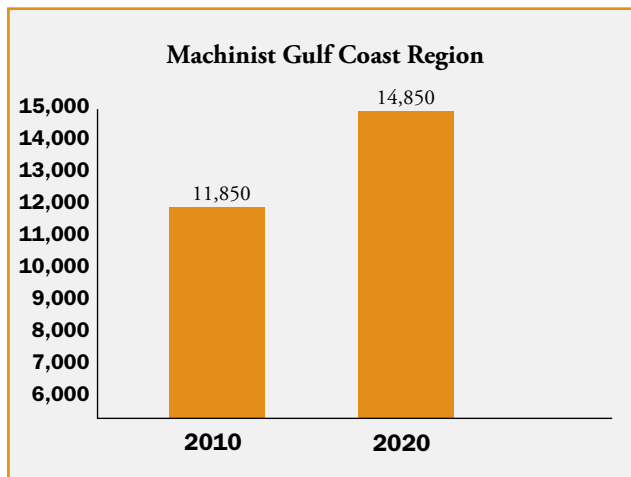
## FINE TUNE YOUR FUTURE ... MACHINISTS ARE IN DEMAND.

Do you like crafting things? Operating machinery? Working with high-tech tools, along with the old reliable ones? If so, you'd be a good fit for a machinist career.

Machinists are highly skilled manufacturing workers. They use power-operated tools to produce precision metal or plastic parts. Machinists differ from general machine operators because they have extensive knowledge of a number of precision machine tools. As technology improves, more and more machines are now controlled by computers which require an ever increasing skill level. Houston's position as world headquarters for oil and gas production translates to a shortage of qualified machinists. This shortage offers outstanding career opportunities for individuals who are just entering the workforce.

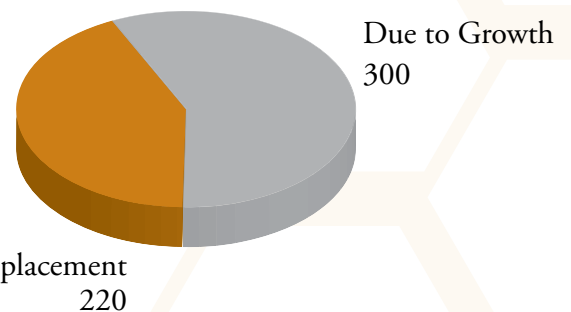


## CONSERVATIVE ESTIMATES SHOW THAT THE REGION NEEDS MORE THAN 500 NEW MACHINISTS EVERY YEAR.



Despite rising imports and ever increasing manufacturing efficiency the number of machinists in the Gulf Coast Region are expected to grow to more than 14,000 by the year 2020.

### Annual Job Openings Gulf Coast Region



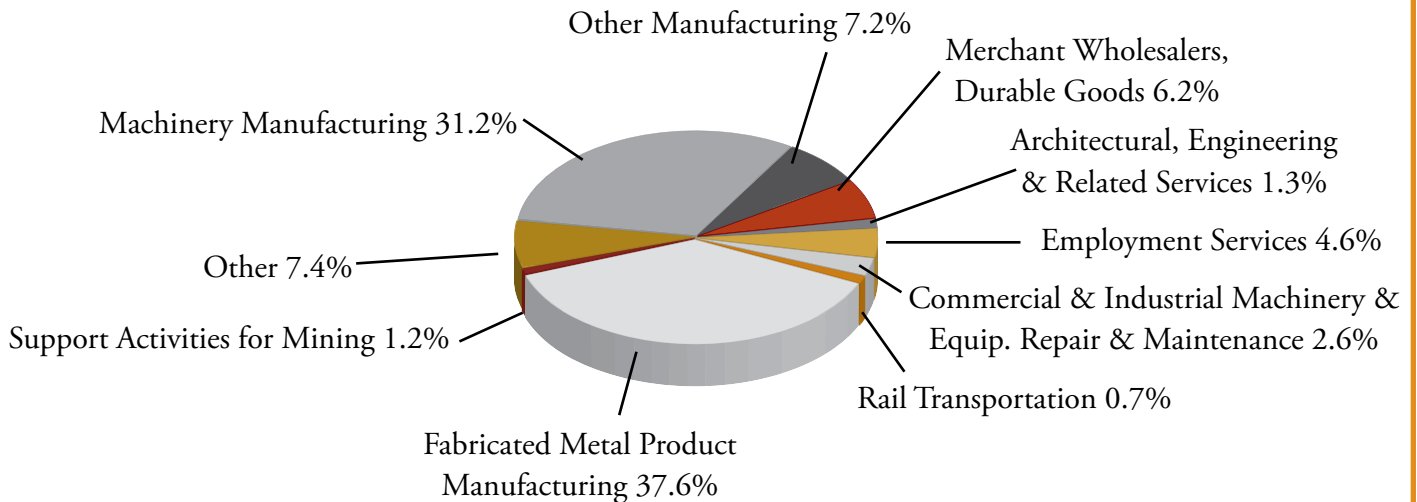
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Latest data available. June 2013.

\*Includes the following counties: Austin, Brazoria, Chambers, Colorado, Fort Bend, Galveston, Harris, Liberty, Matagorda, Montgomery, Walker, Waller, and Wharton.

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**A LARGE PORTION OF MACHINIST JOBS IN THE GULF COAST REGION ARE AT COMPANIES THAT MANUFACTURE PRODUCTS SUPPORTING OIL AND GAS EXPLORATION.**

**Machinist Jobs in the Gulf Coast Region 2020**



**WHILE THE AVERAGE MACHINISTS EARNED \$40,512 PER YEAR IN 2011, MANY EARN IN EXCESS OF \$50,000 OR EVEN \$60,000 PER YEAR!**

## **SOME MACHINISTS MOVE ON AS:**

- CNC programmers
- Tool and die makers
- Supervisors or administrators
- Self-employed machinists

## **HOW DO YOU BECOME A MACHINIST?**

A growing number of machinists earn two-year associate degrees at community or technical colleges. Persons interested in becoming a machinist should be mechanically inclined, have good problem-solving abilities, be able to work independently, and be able to do highly accurate work. High school or vocational school courses in trigonometry, blueprint reading, metalworking, and drafting are recommended. In the Gulf Coast region, there are two primary options for machinist training:

- Training programs at community colleges
- Training programs at vocational-technical institutes

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## PREPARING FOR A MACHINIST CAREER \*

9th Grade		Suggested Coursework	
	English I	World Geography	<b>Career-Related Electives:</b> Technology Systems (Modular Lab Based) or Introduction to Precision Metal Manufacturing or Machine Shop or Welding
	Algebra I	Languages other than English I	
	Biology	Health/PE or Equivalent	
10th Grade		Suggested Coursework	
	English II	World History	<b>Career-Related Electives:</b> Engineering Principles or Engineering Graphics or Electricity/Electronics Technology or Metal Trades
	Geometry	Languages other than English II	
	Principles of Technology I	Technology Applications	
11th Grade		Suggested Coursework	
	English III	United States History	<b>Career-Related Electives:</b> Power, and Transportation Systems or Manufacturing Systems
	Mathematical Models with Applications	Communication Applications	
	Physics	PE or Equivalent	
12th Grade		Suggested Coursework	
	English IV	Government/Economics	<b>Career-Related Electives:</b> Research Design and Development or Problems and Solutions in Technology or Manufacturing Technology
	Algebra II	Fine Arts	
	Engineering		

\*Source: AchieveTexas.org

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## GULF COAST REGION MACHINIST PROGRAMS

### COMMUNITY COLLEGES THAT MAY OFFER TRAINING (DEPENDING ON DEMAND)

- Brazosport
- College of the Mainland
- Houston Community College System
- Lee College
- Lone Star College



### MAJOR EMPLOYERS IN THE GULF COAST REGION

- ABB Vetco Gray Inc
- Ameri-Forge Corp
- Baker Oil Tools
- Cameron
- Dresser-Rand
- Dril-Quip Inc
- FMC Energy Systems
- Goodman Manufacturing
- National Oilwell
- NCI Building Systems
- Oceaneering International
- Schlumberger
- Smith International
- Wyman-Gordon Forgings

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