

# FOCUS ON

# INDUSTRIAL MACHINE MECHANICS

Houston Gulf Coast Region\*

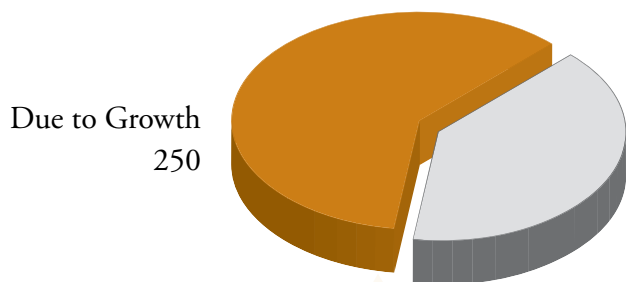
## GOOD HANDS MAKE GREAT CAREERS: A LOOK AT INDUSTRIAL MACHINERY MECHANICS

Are you mechanically inclined? Do you enjoy working with your hands, troubleshooting and repairing equipment? If so, then why not earn a good living doing what you enjoy by becoming an industrial machinery mechanic!



Industrial machinery mechanics are vital to the continued operation of plants and factories. These mechanics perform a wide variety of duties, such as preventive maintenance, detecting breakdown conditions before they happen, making machinery adjustments, and repairing equipment using blueprints, sketches, diagrams, and a variety of tools. Industrial machinery mechanics are in constant demand in the Gulf Coast region, as well as at the state and national level. The demand for industrial machinery mechanics translates into outstanding career opportunities to individuals entering into the workforce

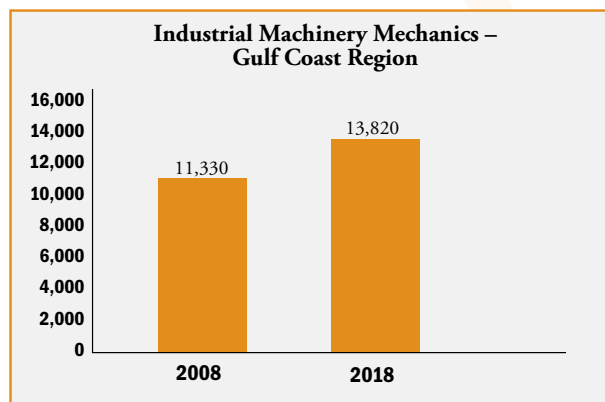
## THE GULF COAST REGION IS ESTIMATED TO NEED MORE THAN 400 NEW INDUSTRIAL MACHINERY MECHANICS A YEAR.



Annual Job Openings – Gulf Coast Region

Due to Replacement  
165

## THERE ARE EXPECTED TO BE NEARLY 14,000 INDUSTRIAL MACHINERY MECHANICS NEEDED IN THE GULF COAST REGION BY 2018

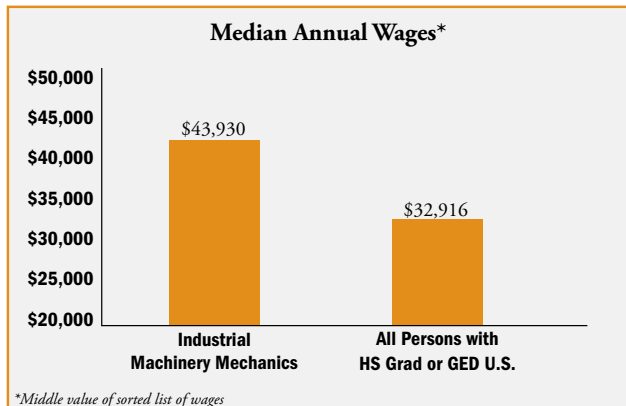


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For more information visit us on the Web at [www.wrksolutions.com](http://www.wrksolutions.com)  
Latest data available. May 2011.

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

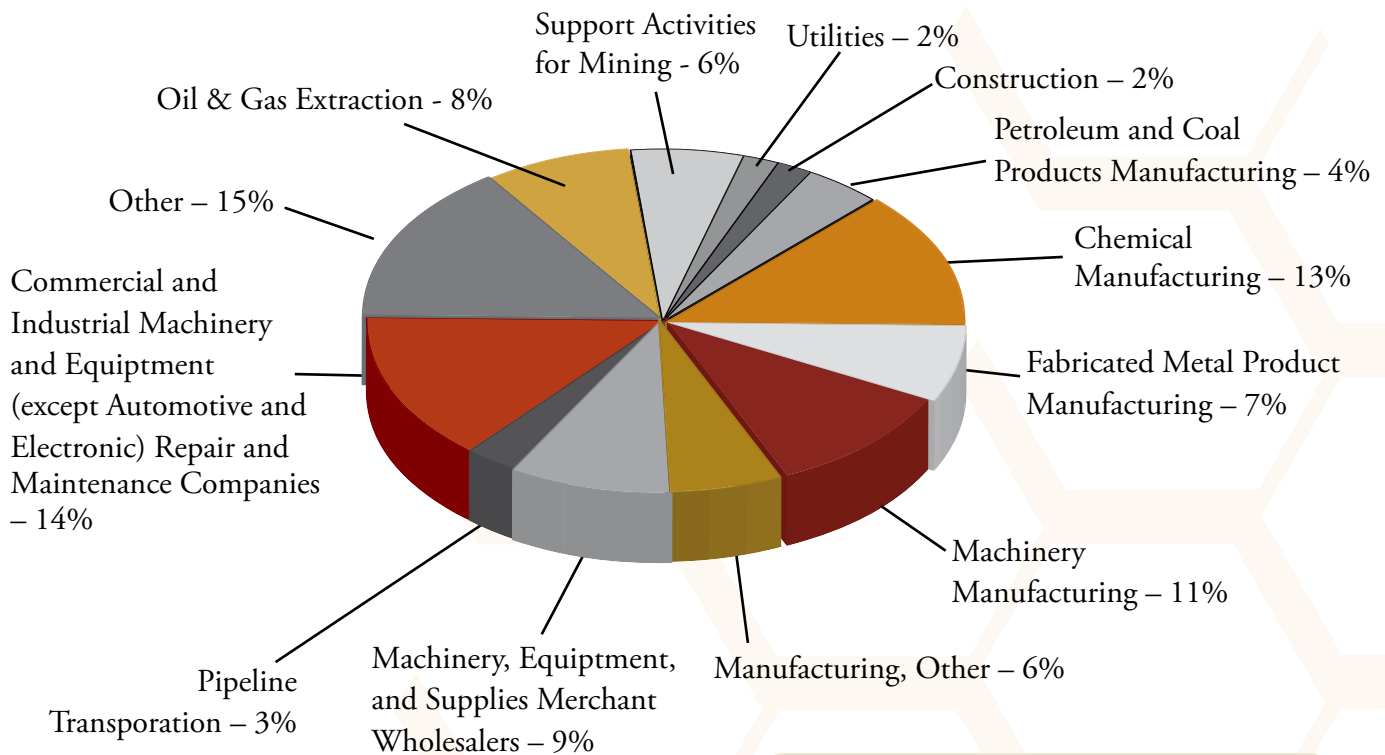
# FOCUS ON INDUSTRIAL MACHINE MECHANICS

**INDUSTRIAL MACHINERY MECHANICS EARN MUCH HIGHER WAGES THAN PERSONS WITH A SIMILAR EDUCATION LEVEL!**



**INDUSTRIAL MACHINERY MECHANICS ARE FOUND IN A VARIETY OF INDUSTRIES WITH THE LARGEST NUMBER WORKING AT VARIOUS MANUFACTURING COMPANIES.**

Industrial Machinery Mechanics - Gulf Coast Region 2018



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## **PATHWAY TO BECOMING AN INDUSTRIAL MACHINERY MECHANIC**

In addition to a HS diploma or a GED, employers generally require at least a year of on-the-job training or combined work experience and formal classroom instruction. In the past, candidates have entered this field by getting hired to perform general maintenance work. Subsequently, they learn the necessary technical skills over the course of several years to advance in their career.

As machinery gets more and more complex, it is becoming increasingly difficult to enter this field without formal training. Industrial machinery mechanics usually must have knowledge of electricity, electronics, hydraulics and pneumatics, although some individuals may specialize in one or more of these areas. In the Gulf Coast region, there are two options for preparing for an industrial machinery mechanic career:

- Training programs at postsecondary vocational schools
- Training programs at community colleges

Some high schools offer career and technology programs that provide students with an opportunity to explore what it would be like to work as an industrial machinery mechanic and learn real job skills. Individuals who complete high school career and technology training will be better prepared for post-secondary education and training programs.

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## PREPARING FOR A CAREER AS AN INDUSTRIAL MACHINERY MECHANIC\*

9th Grade		Suggested Coursework	
	English I	World Geography	<b>Career-Related Electives:</b> Technology Systems (Modular Lab Based) or Electrical Trades or Industrial Electronics or Machine Shop
	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 Graphics or Engineering Principles or Electronics Technology or Construction Systems
	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> Energy, Power, and Transportation Systems or Power Technology or Manufacturing Systems or Introduction to Robotics
	Mathematics Models w/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

### INDUSTRIAL MACHINERY MECHANIC PROGRAMS

#### COMMUNITY COLLEGES

- Brazosport College
- Houston Community College System
- Lee College
- Lone Star College System
- San Jacinto College
- Wharton County Junior College



#### MAJOR EMPLOYERS IN THE GULF COAST REGION

- Anheuser-Busch, Inc.
- Baker Hughes
- Baker Oil Tools
- Chevron Corporation
- Coca-Cola Bottling
- ConocoPhillips
- Dow Chemical
- Dresser-Rand
- Fluor EPCM Services
- FMC Technologies
- Goodman Manufacturing
- Hewlett-Packard
- Kellogg Brown and Root (KBR)
- Lockheed Martin
- Mrs. Baird's Bakeries, Inc
- National Oilwell Varco
- Schlumberger Companies
- Shell
- USPO
- UPS

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