

FOCUS ON GEOSCIENTISTS

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Houston Gulf Coast Region*

Fertile Ground for a Fine Career ...

A REGION RICH IN OPPORTUNITY FOR GEOSCIENTISTS.

The Gulf Coast region's oil and gas industry depends on geoscientists. Houston and the surrounding Gulf Coast region lead the United States in oil and gas production services and many other segments of the energy industry. Yet, the industry is facing a growing shortage of skilled professional and technical workers — or geoscientists.

So, what does a geoscientist do? Most in the Gulf Coast region study the composition, structure, and other physical aspects of the earth for the purpose of oil and gas exploration. Others find additional opportunities in education, mining, government, and the environmental industry.

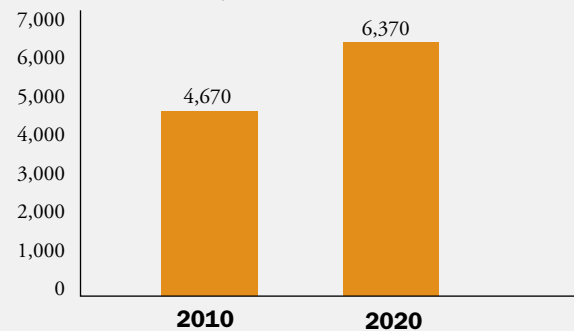
Factors contributing to the shortage:

- Fluctuating oil and gas prices
- Increasing global demand for resources
- A workforce approaching retirement age
- Difficulty attracting new workers

IT'S A GROWING FIELD OF OPPORTUNITY FOR GEOSCIENTISTS. ESTIMATES SHOW A GROWTH RATE OF 36.4 PERCENT OVER 10 YEARS!



Projected Number of Geoscientists – Gulf Coast Region
36.4% Growth!



Brought to you by the Education Committee of The Gulf Coast Workforce Board.
For more information, visit us on the Web at wrksolutions.com
Latest data available: June 2013.

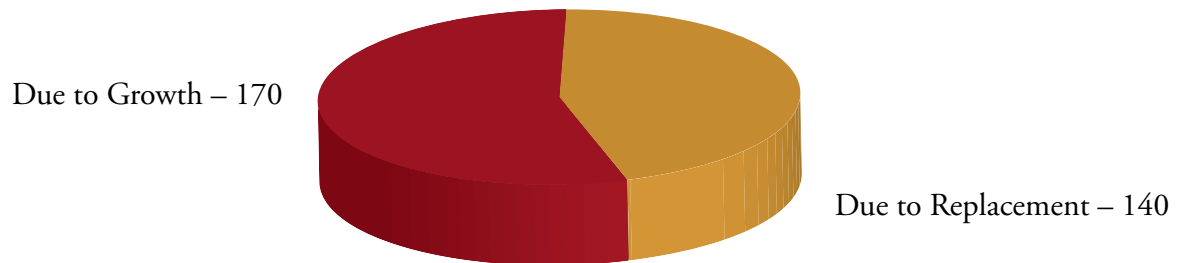
*Includes the following counties: Austin, Brazoria, Chambers, Colorado, Fort Bend, Galveston, Harris, Liberty, Matagorda, Montgomery, Walker, Waller, and Wharton.

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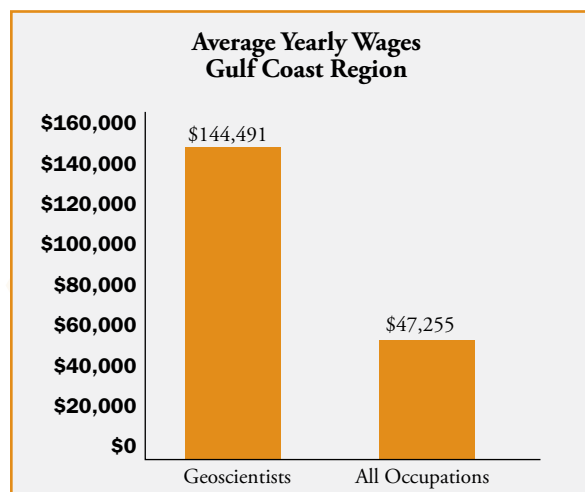
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THE GULF COAST REGION NEEDS TO TRAIN MORE THAN 300 GEOSCIENTISTS EVERY YEAR.

Annual Job Openings – Gulf Coast Region



TAP INTO A CAREER THAT PAYS MORE THAN \$140,000 A YEAR ON AVERAGE. THAT'S MORE THAN THREE TIMES THE AVERAGE PAY OF ALL OCCUPATIONS!

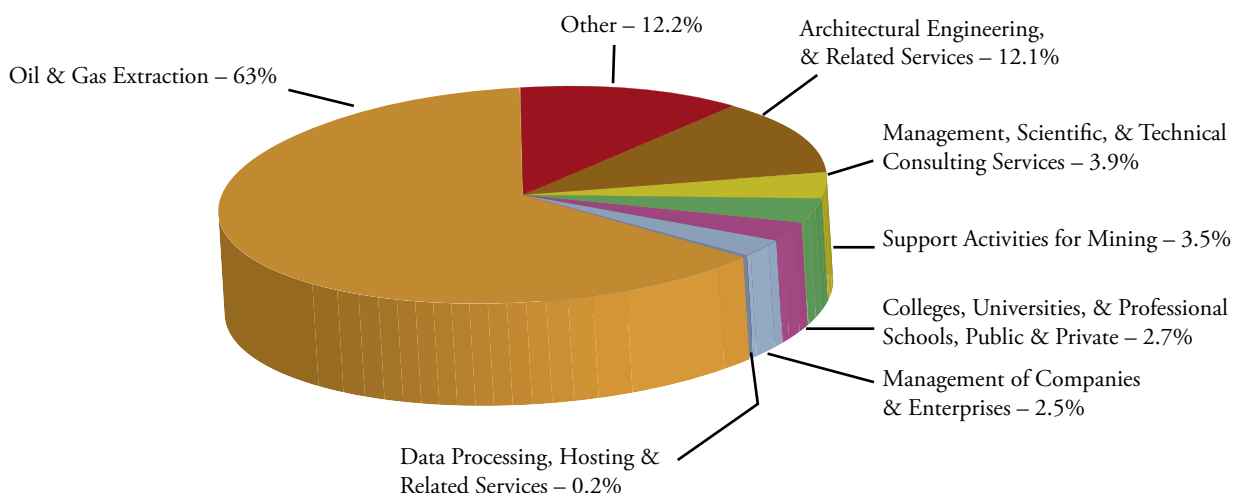


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GEOSCIENTISTS WORK ACROSS A NUMBER OF DIFFERENT INDUSTRIES, BUT THE MAJORITY IN THE GULF COAST REGION WORK IN AREAS RELATED TO OIL AND GAS.

Geoscientists – Gulf Coast Region 2020



START EARLY AND STAY INFORMED

Competition for these high-paying positions can be very intense, making it necessary for interested candidates to stay on top of their game plan! Employers generally require a master's degree in general geology or earth science, but in some cases they accept a bachelor's degree for a few entry-level positions. Most college teaching positions as well as high-level research positions require a Ph.D. Many colleges offer a bachelor's or higher degree in geosciences. Persons best prepared for this career are those who have strong computer skills with knowledge of computer modeling, data analysis and integration, digital mapping, remote sensing, and geographic information systems.

Additional information can be found at:

- American Geological Institute, www.agiweb.org
- American Association of Petroleum Geologists, www.aapg.org
- Texas Board of Professional Geoscientists, www.tbpg.state.tx.us
- Society of Exploration Geophysicists, www.seg.org
- Houston Geological Society, www.hgs.org
- American Institute of Professional Geologists, www.aipg.org

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PREPARING FOR A CAREER AS A GEOSCIENTIST*

9th Grade	Suggested Coursework		
	English I	World Geography	Career-Related Electives: Technology Systems (Modular lab-based) Bio-related Technology
	Algebra I	Languages other than English I	
	Biology	Health/PE or Equivalent	
10th Grade	Suggested Coursework		
	English II	World History	Career-Related Electives: Engineering Principals or Astronomy or Engineering Graphics or Electricity/ Electronics Technology
	Geometry	Languages other than English II	
	Chemistry	Technology Applications	
11th Grade	Suggested Coursework		
	English III	United States History	Career-Related Electives: Bio-related Technology Systems or Energy Power, and Transportation Systems or Geology, Meteorology, and Oceanography or Health Science Technology
	Algebra II	Communication Applications	
	Physics	PE or Equivalent	
12th Grade	Suggested Coursework		
	English IV	Government/Economics	Career-Related Electives: Research Design and Development or Problems and Solutions in Technology or Communication Graphics or Computer Multimedia and Animation
	Calculus	Fine Arts	
	AP Physics		

*Source: AchieveTexas.org

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GULF COAST REGION – GEOSCIENTIST PROGRAMS

UNIVERSITIES

- Rice University
- Sam Houston State University
- Texas A&M University
- Texas Tech University
- University of Houston
- University of Texas

MAJOR EMPLOYERS IN THE GULF COAST REGION

- Amerada Hess Corp
- Anadarko Petroleum Corporation
- Apache Corp
- Baker Hughes
- BHP Billiton Petroleum
- Burlington Resources
- Citation Oil & Gas Corp
- ConocoPhillips
- Devon Energy Corp
- El Paso Corporation
- EOG Resources
- ExxonMobil
- Halliburton
- Hilcorp Energy
- Marathon Oil Co.
- Newfield Exploration
- Noble Energy
- Oxy
- Saudi Aramco
- Shell
- Schlumberger



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