

FOCUS ON GEOSCIENTISTS

1 OF 5

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.



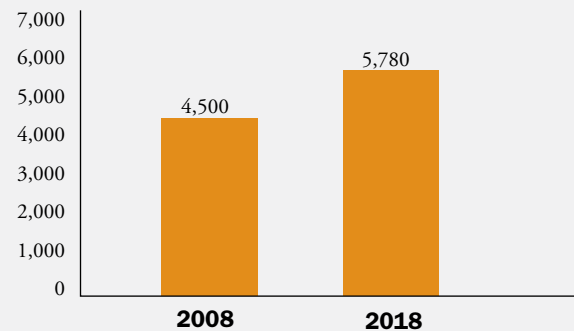
So, what does a geoscientist do? Most in the Gulf Coast region study the composition, structure, and other physical aspects of the earth for the purpose of oil and gas exploration. Others find additional opportunities in education, mining, government, and the environmental industry.

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 28.4 PERCENT OVER 10 YEARS!

Projected Number of Geoscientists – Gulf Coast Region
28.4% Growth!



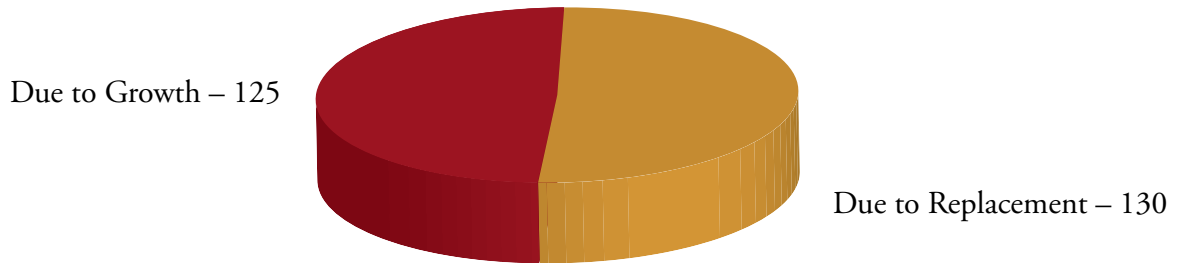
Brought to you by the Education Committee of The Gulf Coast Workforce Board.
For more information visit us on the web at www.wrksolutions.com
Latest data available. May 2011.

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

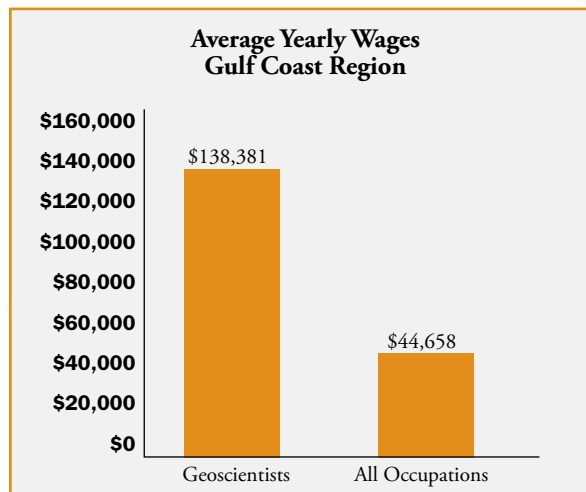
FOCUS ON GEOSCIENTISTS

THE GULF COAST REGION NEEDS TO TRAIN OVER 250 GEOSCIENTISTS EVERY YEAR.

Annual Job Openings – Gulf Coast Region



TAP INTO A CAREER THAT PAYS MORE THAN \$138,000 A YEAR ON AVERAGE. THAT'S MORE THAN THREE TIMES THE AVERAGE PAY OF ALL OCCUPATIONS!

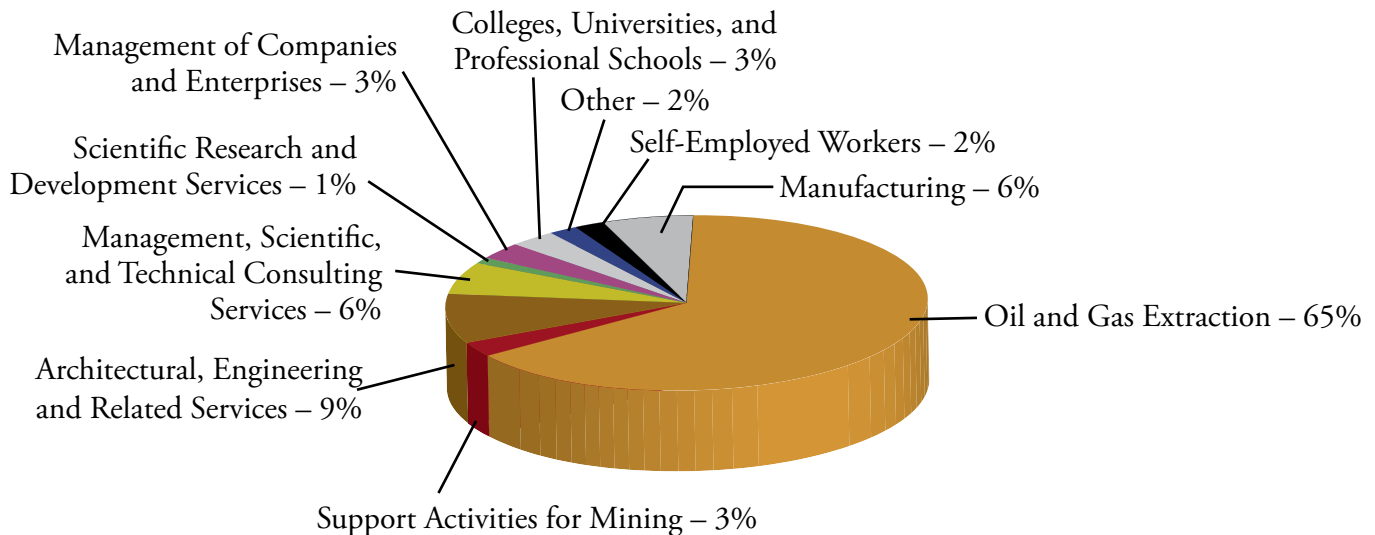


FOCUS ON GEOSCIENTISTS

3 OF 5

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 2018



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

FOCUS ON GEOSCIENTISTS

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

FOCUS ON GEOSCIENTISTS

5 OF 5

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



Workforce Solutions is an equal opportunity employer/program. Auxiliary aids and services are available upon request to individuals with disabilities.

Texas Relay Numbers:

1-800-735-2989(TDD) • 1-800-735-2988(VOICE) • 711

www.wrksolutions.com


Workforce Solutions