

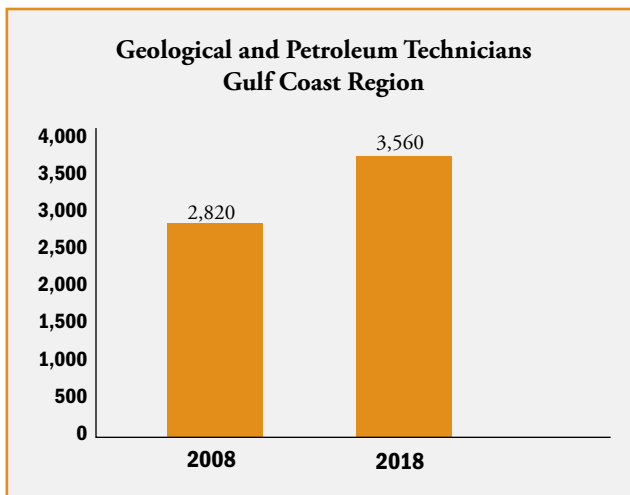
TAKE ADVANTAGE OF THE REGION'S NATURAL RESOURCE, THE OIL AND GAS INDUSTRY! WHAT BETTER PLACE TO BEGIN A CAREER AS A GEOLOGICAL/PETROLEUM TECHNICIAN?

The Houston – Gulf Coast Region* dominates U.S. oil and gas production services and is a leading international center for many segments of the energy industry. The recent oil boom has generated much faster growth than originally expected. As a result, the industry is suffering growing pains. It lacks adequate supply of skilled professional and technical workers. Geological and petroleum technicians assist scientists to find indications of potential sources of oil and gas through the collection and examination of geological data or through the use of electrical, sonic, or nuclear measuring instruments. While some work in offices in support of geological personnel, others may work in the field obtaining and analyzing mud and drill cuttings, charting pressures, temperatures, and other characteristics of wells.

Factors contributing to the shortage:

- rising oil and gas prices are spurring increased activity beyond expectations
- a growing and aging population
- a workforce that is approaching retirement age
- difficulty in attracting new entries into the workforce

THE FUTURE FOR A GEOLOGICAL AND PETROLEUM TECHNICIAN CAREER IS BRIGHT.



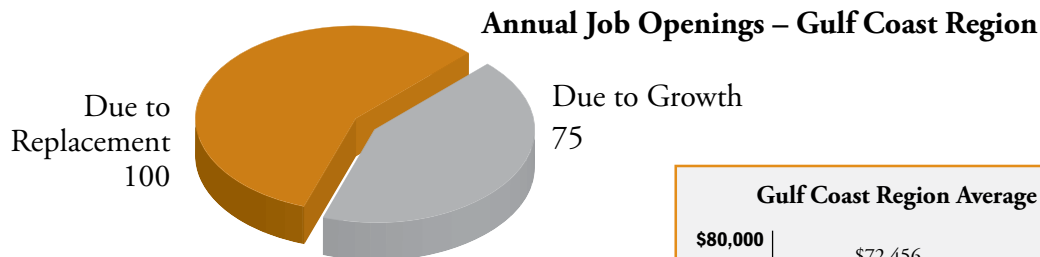
**ORIGINAL ESTIMATES REFLECTED A GROWTH
RATE OF 26.2 PERCENT OVER 10 YEARS
AND ALL INDICATIONS OF THIS HAVE
BEEN UNDERESTIMATED!**

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.

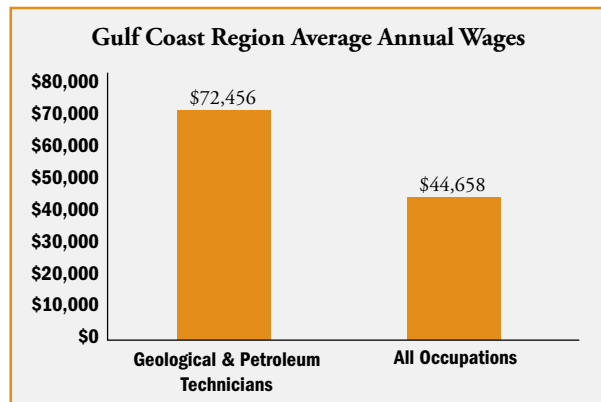
*Includes the following counties: Austin, Brazoria, Chambers, Colorado, Fort Bend, Galveston, Harris, Liberty, Matagorda, Montgomery, Walker, Waller, and Wharton.

FOCUS ON GEOLOGICAL & PETROLEUM TECHNICIANS

CONSERVATIVE ESTIMATES SHOW THE GULF COAST REGION NEEDS TO TRAIN 175 GEOLOGICAL AND PETROLEUM TECHNICIANS EVERY YEAR.



TAP INTO A CAREER THAT PAID OVER \$72,000 PER YEAR IN 2009, THAT'S 62 PERCENT HIGHER THAN THE AVERAGE OCCUPATION! DON'T FORGET, CURRENT DEMAND MAY VERY WELL DRIVE SALARIES EVEN HIGHER IN THE FUTURE!



PLAN EARLY FOR A CAREER AS A GEOLOGICAL OR PETROLEUM TECHNICIAN

Many employers prefer individuals who have at least two years of specialized training or an associate's degree in applied science or science-related technology. Some require a bachelor's degree in chemistry, biology, or may hire individuals that have taken several science and math courses at a four-year college. Many technical and community colleges offer specific associate's degrees or more general education in science and mathematics. Vocational schools or technical institutes offer training with length of programs varying from one-year certificates and two-year associate's degrees. Look for training opportunities at:

- Community colleges
- Universities
- Vocational-technical institutes

ADVANCEMENT OPPORTUNITIES ARE WAITING FOR THOSE WILLING TO DRILL DEEPER!

Career advancement usually depends on job performance, technical-skill level, education, length of employment, and the ability to supervise. Candidates may become specialized, branch into other related occupations, or move up into management positions:

- With additional training or education may advance to geological or petroleum engineer
- Senior level positions with greater responsibility and higher pay
- Supervisory or management positions

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PREPARING FOR A CAREER AS A GEOLOGICAL OR PETROLEUM TECHNICIAN*

9th Grade	Suggested Coursework		
	English I	World Geography	Career-Related Electives: N/A
	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
	Geometry	Languages other than English II	
	Chemistry	Technology Applications	
11th Grade	Suggested Coursework		
	English III	United States History	Career-Related Electives: Geology
	Algebra II	Communication Applications	
	Physics	PE or Equivalent	
12th Grade	Suggested Coursework		
	English IV	Government/Economics	Career-Related Electives: Problems and Solutions in Technology or Research Design and Development
	Calculus	Fine Arts	
	AP Physics		

*Source: AchieveTexas.org

FOCUS ON GEOLOGICAL & PETROLEUM TECHNICIANS

4 OF 4

GULF COAST REGION GEOLOGICAL AND PETROLEUM TECHNICIAN PROGRAMS

Most community colleges and universities offer degree programs in applied sciences. Although certificate or associate degree programs specific to geological and petroleum technicians are not offered by local colleges, the following universities offer 4-year degree programs in petroleum engineering:

UNIVERSITIES

- Louisiana State University
- Texas A&M University
- Texas Tech University
- University of Louisiana
- University of Oklahoma
- University of Texas at Austin



MAJOR EMPLOYERS IN THE GULF COAST REGION

- Halliburton
- Marathon Oil Co.
- Schlumberger Companies
- Spirit Energy
- Unocal
- Anadarko Petroleum Corp.
- Amerada Hess Corp.
- Apache Corp.
- Oxy USA, Inc.
- Calpine Natural Gas Co.
- Citation Oil & Gas Corp.
- ConocoPhillips
- Devon Energy Corp.
- El Paso Production
- Enterprise Products Partners
- Hilcorp Energy
- Occidental Petroleum Corporation
- Panhandle Eastern

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