PETROLEUM ENGINEER

JOB DESCRIPTION

There are many careers associated with Petroleum Engineers including Drilling Engineer, Completions Engineer, Production Engineer or Reservoir Engineer. Drilling Engineers work with information provided by a Geologist and other specialists to determine the best techniques to drill a well. Drilling Engineers will assess additional factors such as equipment, methods and costs needed to safely complete the drilling process. Completions Engineers work to complete the well which includes well stimulation (also known as hydraulic fracturing) and the installation oversight of pressure control techniques. Production Engineers design and monitor the equipment used to get the crude oil and natural gas out of the well and into storage tanks or pipelines for marketing and distribution. If a well is not meeting expectations, they will look at alternative equipment or processes to improve the well's production. And, Reservoir Engineers evaluate the performance of individual wells, groups of wells or a well field to determine their respective life cycles. They complete their research using advanced technologies that create sophisticated models that will establish well decline curves. Reservoir Engineers utilizes this information to provide suggestions for reservoir improvement and planning for future company operations. (Also see Drilling, Completions, Production and Reservoir Engineer)

EDUCATION REQUIREMENTS

Bachelor Degree in Petroleum Engineering.

EDUCATION & TRAINING OPPORTUNITIES

Marietta College
215 5th Street, Marietta, Ohio 45750
740-376-4600
www.marietta.edu

Penn State
201 Old Main, University Park, Pennsylvania 16802
814-865-4700
www.psu.edu

West Virginia University
One Waterfront Place, Morgantown, West Virginia 26506
304-293-0111
www.wvu.edu
Did you know that the natural gas and crude oil industry offers more than 75 different challenging and rewarding career opportunities? In fact, in 2011, there were approximately 14,000 people employed in the exploration and production segment of our industry, and today, that number has rapidly grown to nearly 200,000. As energy demands continue to increase, so does the need for qualified workers that will help drive production forward.

Ohio’s first wells were drilled just prior to the Civil War, and our state now ranks fourth in the nation in the number of natural gas and crude oil wells drilled – 275,000 – behind only Texas, Oklahoma, and Pennsylvania. Currently, Ohio has over 50,000 wells, and advancements in technology have made it possible for these natural resources to be produced safely and economically.

Thanks to the industry’s innovation, we continue to provide energy and petrochemical products to our local homes, schools, farms, churches, municipalities, and businesses across the state, region and country. As the Ohio’s energy supply adds to the national supply, our resources are helping us become less dependent from foreign supplies. By 2020, just the Utica and Marcellus Shales located in Ohio, Pennsylvania and West Virginia are projected to account for 35% of all U.S. natural gas production, making our region an industry leader.

In addition to energy supplies, products such as synthetic fabric, cosmetics, sporting equipment, toys, toothbrushes, inks, computers, paints and many lifesaving products such as medicines, artificial hearts and even prosthetics are all made from petroleum. With the average person using around 3 gallons of petrochemical related products each day, it is easy to see why the crude oil and natural gas industry is persistently in need of a well trained workforce.

FOR MORE INFO

OHIO OIL & GAS ENERGY EDUCATION PROGRAM

OOGEEP.org

P.O. Box 187, Granville, OH 43023
740-587-0410 | www.oogeep.org

Don’t forget to check out our career videos at youtube.com/OOGEEP1