

Research Assessment #1

Date: September 4th, 2020

Subject: Petroleum Engineering Career Outlook

Source:

“Petroleum Engineers: Occupational Outlook Handbook.” U.S. Bureau of Labor Statistics, U.S.

Bureau of Labor Statistics, 1 Sept. 2020,

www.bls.gov/ooh/architecture-and-engineering/petroleum-engineers.htm.

Assessment:

As I have currently decided to focus my area of study on engineering, it is important that I research a field in specific, Petroleum Engineering. I collected my research from the Occupational Outlook Handbook created by the Bureau of Labor Statistics. This has allowed me to become aware of the specifics of Petroleum Engineering and its impact on modern energy creation and consumption.

The primary function of petroleum engineers is to derive effective methods for getting oil and natural gas through hydrocarbons for usage in energy production. This is vital for people around the world in that oil and natural gas are some of the most widely used forms of energy. It is a significant part of the energy derivation process in the whole world fueling many cars, houses, and buildings everywhere. I hope to be able to dive deeper into this field of study as it has lots of potential in the future as energy consumption and methods for deriving energy become more important and in higher demand.

In order to become apart of this career, one must understand and be able to utilize skills such as communication, leadership, as well as innovation. Innovation in specific is the primary skill required in this field. Every day Petroleum Engineers must brainstorm newer and more effective methods to derive oil for energy consumption. Skills such as these will provide me with the proper mindset as I pursue this area of study.

However, getting into this field is not easy. It requires years of study and specialization in order to compete as the field is very competitive and in demand. It requires a bachelor's degree and a specialization degree in Petroleum engineering to become well versed in the field. This was a shock at first, seeing as it requires more than the average career in terms of education, however, it is justified in that this career can only be performed by those who are capable and have the knowledge to innovate the world's energy resources. This innovation is far from easy and is an issue many are fighting today.

The average income is \$138,000 dollars for Petroleum Engineers, however, it may vary depending on your role in the job and your specialization. The field is projected to grow upwards of 3% in 2019, and even more in 2020 and the future as we meet the energy crisis around the world. This career will gradually increase in demand seeing as energy consumption, oil and gas in specific, is exponentially increasing in countries such as the United States, China, and India. This increase prompts petroleum engineers to innovate and derive new methods for sustaining the world's oil supply and distributing it without overuse.

As I further delve into the field of engineering and Petroleum Engineering, I will discover mentors to help me along the way. I may also discover new aspects of engineering and the field in specific that I did not know before that I found intriguing. This will allow me to gain real-world

experience before I fully enter the field in college, further motivating me to pursue this endeavor.