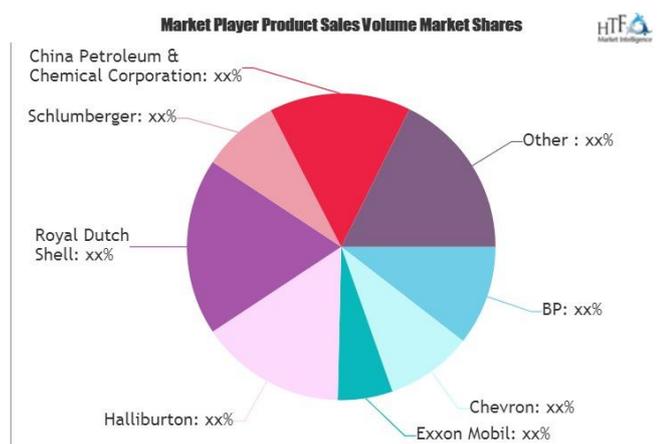


## Market Analysis: Advanced Materials and Methods - Chemical and Petroleum Engineering

Jalal Abedi

The impact of low oil prices on global economies, market participants, and the geopolitical landscape is ushering in a new order for the industry-one of tightened spending and increased insecurity. The [industry](#) is also seeing mounting pressure to reduce air and water pollution and overall environmental footprint. Yet oil and natural gas will continue to fuel and power the world's economy for decades. "Advanced Materials and Methods-Chemical and Petroleum Engineering" to take place in the beautiful city of Tokyo, Japan, March23-24, 2020.

Analytics solution for the oil and gas industry helps to gain a universal view of the operations; helps to keep pace with vibrant markets, customer needs, and regulations. Oil and gas analytics software allows companies to understand the dependencies, objectives and meet the target by [analyzing](#) the complete project lifecycle. Moreover, improve operation and enhance productivity, examine supply chain performance and verify the root cause of production loss. These graphics software are being employed by businesses around the world to improve efficiencies of their business processes along with enhancing and innovating product [design](#) and features.



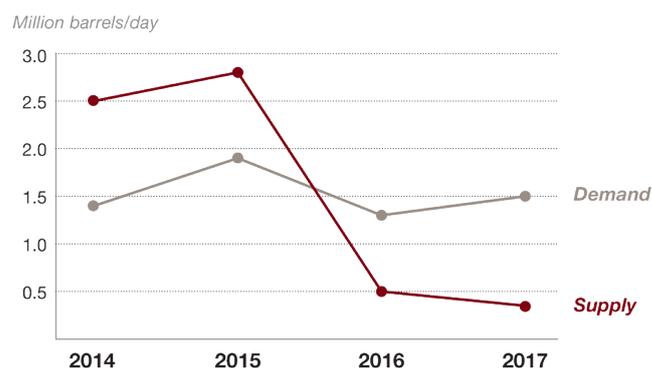
### Market Growth of Oil and Gas Research in the last and upcoming ten years:

The global enhanced oil recovery (EOR) market totaled nearly \$22.9 billion in 2016 and should total \$30.4 billion by 2021, with a five-year compound annual [growth](#) rate (CAGR) of 5.9% through 2021. The global market for industrial gases

was valued at \$68.7 billion in 2015. The market is expected to grow from \$72.5 billion in 2017 to \$80.9 billion in 2020, a compound annual growth rate (CAGR) of 3.3% from 2015 to 2020. The global market for oilfield process chemicals should reach \$29.6 billion by 2021 from \$26.9 billion in 2016 at a compound annual growth rate (CAGR) of 2%, from 2016 to 2021. The global market for bioproducts should reach \$714.6 billion by 2021 from \$466.6 billion in 2016 at a compound annual growth rate (CAGR) of 8.9%, from 2016 to 2021.

Apart from the industrial personnel where most of the research work is done, other research communities include:-

### Growth in world oil supply and demand



Source: IEA Oil Market Report, December 2017; Strategy & research

Academicians include Student community.

Researchers include Post docs, [Research](#) Associates.

Scientists include Professors, Associate professors, and Assistant professor.

Industries include Presidents, CEO's, and R&D Managers.

### Market Report of Oil and Gas:

The reduction in the [oil & gas](#) price has led to downfall in the overall investment trend in the sector, as major oil & gas projects require huge capital investment. The price downfall made investor more concern towards enhancing the overall production profile rather than deploying huge investments into new projects.

The global oil and gas automation market can be segmented on the basis of technology, sector, petroleum derivative

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products, and by geography.

Based on technology, the oil & gas reservoir monitoring system market can be segmented into electrical downhole monitoring systems, fiber optic downhole monitoring systems, and wireless downhole communication monitoring systems.

Oil industries and governments across the globe are investing in unconventional oil sources due to the increasing scarcity of conventional oil reserves.

North America dominated the gas equipment market in 2015 and is projected to remain the market leader through 2021.

The U.S. is the fastest growing country-level market, from 2016 to 2021. Asia-Pacific is the fastest growing region in the gas equipment market.

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