

## **Osama Osman**

### **Instructor**

#### **Career synopsis**

Osama O. is an esteemed Senior Petrophysicist with a rich background spanning over a decade in the oil industry, showcasing his prowess in integrating petrophysical analysis with advanced technological approaches. With a Master's degree in Characterization of Cretaceous Reservoir from Cairo University, his educational foundation is robust, complemented by numerous published technical papers that contribute to his authoritative voice in the field.

Currently holding the position of Senior Petrophysicist at the Egypt Upstream Gateway with an international oilfield services company since 2020, Osama has been instrumental in advancing petrophysical analysis across various regions in Egypt. His work involves detailed analysis of exploration wells, integration of comprehensive datasets, and innovative approaches such as machine learning for predictive modeling, which have significantly enhanced the understanding and exploitation of reservoirs, particularly in carbonate contexts.

Osama's expertise is not confined to industry practice alone. Since 2023, he has also been serving as an Associate Instructor at the Technical Education Academy, where he educates upcoming professionals in core petrophysical concepts, logging tools, and interpretation techniques. His commitment to the latest industry practices and his ability to translate complex petrophysical data into actionable knowledge makes him a pivotal educator. His teaching methodology focuses on hands-on instruction and mentoring, ensuring that learners not only understand but can effectively apply petrophysical principles in real-world settings.

Before his current roles, Osama engaged in significant consultancy work in Libya and Yemen between 2020 and 2022, focusing on rock typing, saturation height modeling, and the evaluation of carbonate potentialities. His approach often involves the integration of well logging, core, and borehole image data, enhancing static modeling for better reservoir characterization.

His earlier tenure as a Senior Petrophysicist from 2013 to 2020 at a joint venture in Egypt saw him managing the petrophysical analysis of over 500 wells, emphasizing the use of sophisticated software like Interactive Petrophysics (IP) and Techlog. This role was preceded by his foundational experiences as an Operation/Well Site Geologist, where he developed his niche in evaluating hydrocarbon shows and well log analysis, often in challenging field conditions such as deviated and horizontal wells.

Osama's proficiency with industry-standard software like Petrel, his expertise in data visualization with tools like Spotfire, and his application of machine learning in Python illustrate his comprehensive skill set. His educational activities, coupled with his practical and consultancy roles, underline his dual impact as both a leader in petrophysical analysis and a dedicated educator shaping the future talents of the oil and gas industry. His career is a testament to the integration of deep theoretical knowledge, extensive practical experience, and a commitment to advancing the petrophysical sciences through both professional practice and academic contributions.

#### **Professional experience**

**September 2022-Until now - Consultant Petrophysicist - SLB, Middle east**

- Consultant Petrophysicist Responsible for NMR, Cased Hole, Acoustics, and ADT Processing and Interpretation.
- Personnel training
- Knowledge test / assessment

**June 2020-September 2022 - Senior Petrophysicist - EUG/SLB, Egypt**

- Senior petrophysicist responsible for clastic and carbonate formation evaluation, NMR, acoustics, and borehole Image processing and interpretation. Machine learning for logging and petrophysical properties prediction, rock typing and saturation height modelling.
- Curriculum development
- Personnel training
- Knowledge test / assessment

**June 2011-June 2020 - Petrophysicist - Qarun/ Apache petroleum company, Egypt**

- Petrophysicis is responsible for clastic and carbonate formation evaluation, low resistivity pay interpretation, borehole image processing, and interpretation.
- Curriculum development
- Personnel training
- Knowledge test / assessment

**Education and qualifications**

Type	Name
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**Language: English, Arabic**