

Curriculum Vitae

I. Personal Data

Full Name: Salah M. Almudhhi

Date of Birth: 12/06/1970

Nationality: Kuwaiti

Marital Status: Married

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II. Academic Qualifications

Degree	University	Country	Years	Field of Specialization
Ph.D.	Colorado Scholl of Mines	USA	2003	Petroleum Engineering
M. S.	Colorado Scholl of Mines	USA	1998	Petroleum Engineering
B. S.	Kuwait University	Kuwait	1994	Petroleum Engineering

Ph.D. Thesis Title: “Experimental Evaluation of the Petrophysical Algorithm in an Integrated Flow Model”

M.S. Thesis Title: “The ‘Spinning Disk’ Approach to Capillary Pressure Measurement with a Centrifuge Experiment”

III. Research Interests

- Rock and Fluid Characterizations
- Enhanced Oil Recovery
- Wettability Measurements
- Applications of Nano Technology in Petroleum Engineering

Current Research

- Wettability Measurements

IV. Professional Experience

Academic Positions

Title	University	Country	Years
Assistant Professor	Kuwait University	Kuwait	2014 – present
Environmentalist	State of Kuwait	Kuwait	2009 – 2014
Acting Chairman of Petroleum Dept.	Kuwait University	Kuwait	2004

Assistant Professor	Kuwait University	Kuwait	2003 – 2009
Teaching Assistant	Colorado School of Mines	USA	2000 – 2002
Research Assistant	Kuwait Institute of Scientific Research (KISR)	Kuwait	1994 – 1996

Administrative Experience

a) Departmental Level

No.	Committee	Role	Year of Service
1	Research	Member	2019 – 2022
2	SPE Student Chapter	Advisor	2015 – 2017
3	International Cooperation	Member	2015 – 2017
4	Social Affairs	Representative	2021 – 2023
5	Scholarship	Member	2016-2018
6	Consultation & Development	Coordinator	2018 – 2023

b) College Level

No.	Committee	Role	Year of Service
1	College Council	Member	2014 – 2015
2	Research	Member	2019 – 2022
3	College Strategic Planning	Member	2018 – 2020
4	College Consultation and Training	Member	2018 – 2023
5	Social Affairs	Member	2021 – 2023

c) University Level

No.	Committee	Role	Year of Service
1	Higher Committee of New Campus	Member	2010 – 2014
2	Kuwait University Investigation Committee	Member	2022
3	Establishing Kuwait University Holding Company	Member	2022

d) Community Level

No.	Type Service	Role	Year of Service
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1	Kuwait Society of Engineers (KSE)	Board Member	2007 – 2009
2	Environment Committee at KSE	Founder and Chairman	2007 – 2009
3	World Federation of Engineering Organizations	Energy Committee Member	2007 – 2009
4	Kuwait Environment Public Authority	Chairman of the Board and DG	2009 – 2014
5	Supreme Council for the Environment	Executive Secretary	2009 – 2014
6	Supreme Committee of Nuclear Energy	Member	2009 – 2010
7	Industry Public Authority	Board Member	2009 – 1014
8	Supreme Committee for the BOT Projects	Member	2009 – 2014
9	Supreme Committee of Mega Projects	Board Member	2010 – 2012
10	Supreme Council for Environmental Compensation	Vice President	2009 – 2014
11	United Nation Environment Program	State Representative	2009 – 2014
12	United Nation Development Program	State Representative	2009 – 2014
13	GCC Ministerial Annual Meeting	State Representative	2009 – 2014
14	Arab League Ministerial Annual Meeting	State Representative	2009 – 2014
15	Islamic Organization Ministerial Meetings	State Representative	2009 – 2014
16	UN Biological Diversity, CBD	State Representative	2009 – 2014
17	UN Ozone Compact Convention	Focal Point	2009 – 2014
18	UN CITES Treaty (Endangered Species)	State Representative	2009 – 2014
19	UNCCD (Desertification)	State Representative	2009 – 2014
20	Designated National Authority, UNEP	Focal Point	2009 – 2014
21	GCC and Europe Environment Permanent Committee	State Representative	2009 – 2014
20	Ministerial Committee on Renewable Energy	Speaker	2016 – 2019
21	Environmental Advisor to Minister of Public Work	Advisor	2017 – 2018

22	Educational Advisor to Minister of Education	Advisor	2021
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V. Teaching Experience

a) Undergraduate Courses

Course Number	Course Title	Semester	Academic Year
0650-461	Rock Mechanics	Fall	2025-2026
0650-101	Introduction to Petroleum Engineering	Spring	2024-2025
0650-221	Reservoir Rock Properties	Spring	2024-2025
0650-101	Introduction to Petroleum Engineering	Spring	2024-2025
0650-221	Reservoir Rock Properties	Fall	2024-2025
0650-101	Introduction to Petroleum Engineering	Fall	2024-2025
0650-461	Rock Mechanics	Fall	2023-2024
0650-221	Reservoir Rock Properties	Fall	2023-2024
0650-322	Reservoir Rock Laboratory	Fall	2023-2024
0650-354	Well Logging	Summer	2022-2023
0650-450	Industrial Training	Summer	2022-2023
0650-355	Well Logging Laboratory	Summer	2022-2023
0650-101	Introduction to Petroleum Engineering	Spring	2022-2023
0650-354	Well Logging	Fall	2022-2023
0650-101	Introduction to Petroleum Engineering	Fall	2022-2023
0650-355	Well Logging Laboratory	Fall	2022-2023
0650-221	Reservoir Rock Properties	Spring	2021-2022
0650-101	Introduction to Petroleum Engineering	Spring	2021-2022
0650-322	Reservoir Rock Laboratory	Spring	2021-2022
0650-354	Well Logging	Fall	2021-2022
0650-221	Reservoir Rock Properties	Spring	2020-2021
0650-101	Introduction to Petroleum Engineering	Spring	2020-2021
0650-221	Reservoir Rock Properties	Fall	2020-2021
0650-450	Industrial Training	Fall	2020-2021
0650-322	Reservoir Rock Laboratory	Fall	2020-2021
0650-450	Industrial Training	Summer	2019-2020
0650-354	Well Logging	Spring	2019-2020
0650-450	Industrial Training	Spring	2019-2020
0650-325	Fluid Flow in Porous Media	Fall	2019-2020
0650-450	Industrial Training	Fall	2019-2020
0650-354	Well Logging	Spring	2018-2019
0650-450	Industrial Training	Spring	2018-2019
0650-355	Well Logging Laboratory	Spring	2018-2019
0650-450	Industrial Training	Fall	2018-2019
0650-221	Reservoir Rock Properties	Summer	2017-2018
0650-322	Reservoir Rock Laboratory	Summer	2017-2018

0650-450	Industrial Training	Summer	2017-2018
0650-221	Reservoir Rock Properties	Spring	2017-2018
0650-322	Reservoir Rock Laboratory	Spring	2017-2018
0650-450	Industrial Training	Spring	2017-2018
0650-354	Well Logging	Fall	2017-2018
0650-450	Industrial Training	Fall	2017-2018
0650-355	Well Logging Laboratory	Fall	2017-2018
0650-221	Reservoir Rock Properties	Summer	2016-2017
0650-322	Reservoir Rock Laboratory	Summer	2016-2017
0650-450	Industrial Training	Summer	2016-2017
0650-221	Reservoir Rock Properties	Spring	2016-2017
0650-322	Reservoir Rock Laboratory	Spring	2016-2017
0650-450	Industrial Training	Spring	2016-2017
0600-308	Numerical Methods in Engineering	Fall	2016-2017
0650-354	Well Logging	Fall	2016-2017
0650-322	Reservoir Rock Laboratory	Fall	2016-2017
0650-221	Reservoir Rock Properties	Summer	2015-2016
0650-322	Reservoir Rock Laboratory	Summer	2015-2016
0650-450	Industrial Training	Summer	2015-2016
0650-221	Reservoir Rock Properties	Spring	2015-2016
0650-322	Reservoir Rock Laboratory	Spring	2015-2016
0650-450	Industrial Training	Spring	2015-2016
0650-312	Petroleum Industry for non-Petroleum	Fall	2015-2016
0650-450	Industrial Training	Fall	2015-2016
0650-427	Secondary Recovery	Summer	2015-2016
0650-450	Industrial Training	Summer	2014-2015
0650-427	Secondary Recovery	Spring	2014-2015
0650-450	Industrial Training	Spring	2014-2015
0650-312	Petroleum Industry for non-Petroleum	Fall	2014-2015
0650-496	Petroleum Engineering Design	Fall	2014-2015
0650-450	Industrial Training	Fall	2014-2015
0650-351	Petroleum Geology	Fall	2012-2013
0600-308	Numerical Methods in Engineering	Fall	2008-2009
0650-301	Fundamentals of Petroleum Engineering	Fall	2008-2009
0650-323	Phase Behavior of Res. Fluid	Spring	2005-2006
0650-333	PVT Laboratory	Spring	2005-2006
0650-354	Well Logging	Spring	2005-2006
0650-355	Well Logging Laboratory	Spring	2005-2006
0650-323	Phase Behavior of Res. Fluid	Spring	2004-2005
0650-351	Petroleum Geology	Fall	2004-2005
0650-352	Subservice Mapping	Fall	2004-2005
0650-323	Phase Behavior of Res. Fluid	Fall	2003-2004
0650-325	Fluid Flow in Porous Media	Fall	2003-2004

b) Graduate Courses

Course Number	Course Title	Semester	Academic Year
2090-505	Introduction to Petroleum	Fall	2025-2026
2090-541	Core Analysis	Fall	2019-2020
2090-541	Core Analysis	Fall	2018-2019
2040-562	Environmental Auditing	Spring	2015-2016
2090-503	Petroleum Engineering II	Spring	2008-2009

VI. Student Research Supervision

a) Supervision of Graduates Students

No.	Title	Type	Role	Name of Student	Date of Completion
1	Formulation and Evaluation of Nanofluids for Enhanced Oil Recovery in Tight Carbonate Reservoirs: A Laboratory Study	M.S. Project	Supervisor	Gannam Alajmi	June 2018
2	Modeling Permeability of a Carbonate Reservoir Using NMR and Routine Log Measurements	M.S. Thesis	Co-Supervisor	Mona Alkhayat	May 2020
3	Modeling the Flow Zone Indicator of Sandstone Rocks	M.S. Thesis	Co-Supervisor	Dana Eid	May 2022
4	Investigating Wettability and Surface Roughness of Minagish Oolite Carbonate Reservoir	M.S. Project	Supervisor	Taiba Alwohaib	May 2023
5	Characterization of Wettability and Mobility of Kuwait Carbonate Reservoir	M.S. Project	Supervisor	Alaa Albassam	May 2023
6	Application of Data Mining Tools for Modeling the Maximum Oil Rate from Gas Lift Operations	M.S. Thesis	Co-Supervisor	Monera Alhajri	2024
7	The Effect of Saline's Concentration on Tensile Strength of Berea Sandstone	M.S. Thesis	Supervisor	Wasmeyah Almutairi	2025

b) Supervision of Undergraduate Students

- Fatma Alyaqoub and Shaikha Alduwaisan: 2015
 - **Research Topic:** Air Quality Assessment in the Ali Sabah Al-Salem Urban Community
 - **Publications:** Conference Presentation.

VII. Research Experience

a) Research Grants

No.	Title of the Grant	Amount	Funding Agency	Project Code	Role	Start date – End date
1	Elastic Wave Velocity Correlations for Integrated Flow Model - IFM	2,000 K.D. (\$6,500)	Kuwait University	RIG (ZE21/04)	PI	2004 – 2005

b) Journal Publications

Papers

J1

Alomair, O. A., Almudhhi, S. M., and Aldousari, M. M., 2011, Investigating Rock-Face Boundary Effects on Capillary Pressure and Relative Permeability Measurements. Journal of Porous Media, Vol. 14 (5), pp. 395-409. (DOI: [10.1615/jpormedia.v14.i5.30](https://doi.org/10.1615/jpormedia.v14.i5.30)), (**JCR: Q2 at the time publishing**)

J2

Al-Bazali, T., Almudhhi, S., and Chenevert, M., 2011, An Experimental Investigation of the Impact of Diffusion Osmosis and Chemical Osmosis on the Stability of Shales. Petroleum Science and Technology, Vol. 37 Issue 6, pp. 394-400. (**JCR: Q2 at the time publishing**)

J3

Almudhhi, S., Lababidi, H. and Garrouch, A., 2025, Application of Machine Learning for Modeling Heavy Oil Viscosity. Journal of Engineering Research, Accepted May 2025, (**JCR: Q3 at the time publishing**)

J4

Almudhhi, S., Alostath, M., Al-Bazzaz, W., Sharifigaliuk, H., Qubian, A., 2021, An unconventional approach in investigating wettability contact angle measurement in shale resources. Petroleum Science and Technology, Vol. 40 No: 8, pp 393-936 (DOI: [10.1080/10916466.2021.2008969](https://doi.org/10.1080/10916466.2021.2008969)) (**JCR: Q2 at the time publishing**)

J5

Almudhhi, S., Albazali, T., and Alkandari, H., 2025, Prediction of Berea sandstone's compressive strength from Brazilian tensile measurements: effect of monovalent aqueous

solutions. Petroleum Science and Technology, Accepted May 2025., (JCR: Q2 at the time publishing)

J6

Al-Dousari, M., Almudhhi, S., Garrouch, A., 2021, Predicting the flow zone indicator of carbonate reservoirs using NMR Echo transforms and routine open-hole log measurements: Insights from a field case study spanning extreme microstructure properties. Journal of Engineering Research, Vol. 10 No 1A: pp 330-346. (DOI: [10.36909/jer.13185](https://doi.org/10.36909/jer.13185)), (JCR: Q4 at the time publishing)

Other Journal Publications

i1

Almudhhi, Salah M. and Fanchi, John R., “Experimental Evaluation of an Integrated Flow Model”, Petroleum Science and Engineering, Elsevier, 2005, Netherlands. (JCR: Q1 at the time publishing)

i2

Almudhhi, S., “Experimental Presentation of an Integrated Flow Model”, Petroleum Science and Technology, 2005. (JCR: Q1 at the time publishing)

i3

Almudhhi, S. M., Alomair, O. A., and Ali, A., 2007, Averaging Effect on Petrophysical Algorithm Results in an Integrated Flow Model. International Journal of Petroleum Science and Technology, 1, pp. 61-74. (JCR: Q1 at the time publishing)

i4

Masoud, S., Almudhhi, S. and Alenezi, M., Histopathological survey of potential biomarkers for the assessment of contaminant related biological effects in species of fish and shellfish collected from Kuwait Bay, Arabian Gulf. Marine Environmental Research, 2014. (JCR: Q1 at the time publishing)

DOI: [10.1016/j.marenvres.2014.03.005](https://doi.org/10.1016/j.marenvres.2014.03.005)

i5

Almudhhi, S. M., 2016, Recovery of Crude from OVL in Joint Operations, Wafra, Kuwait. Petroleum Science and Technology, 43:2, pp. 170-176. (JCR: Q3 at the time publishing)

i6

Al-Bazzaz, W., Almudhhi, S., and Alostath, M., 2019, Investigating wettability contact angle measurement in Kuwaiti heavy oil reservoir and modeling using 2D imaging technologies. Petroleum Science and Technology, Vol.37-6, pp. 394-400. (JCR: Q3 at the time publishing)

i7

Almudhhi, S., Abdullah, L., Al-Bazzaz, W., Alsayegh, S., Alajaj, H., Flori, R., 2023, Are Natural Fractures in Sandstone Reservoir: Water Wet – Mixed Wet – Or Oil Wet? Journal of

Engineering Research, Kuwait, Vol. 11 No 1B, pp 374-287.. (JCR: Q4 at the time publishing)

Other Publication: Technical Report

Almudhhi, M., Haidar, A., Kuwait's Initial National Communications under the United Nations Framework Convention on Climate Change. Technical report presented to UNFCCC, 2012.

c) Conference Publications

c1

Almudhhi, S. and Christiansen, R., "The Spinning Disk Approach to Capillary Pressure Measurement with a Centrifuge Experiment", Proceedings of the 1998 International Symposium of the Society of Core Analysts, paper 9834 in the proceedings of 1998, Hague, Netherlands

c2

Experimental Presentation of an Integrated Flow Model, 8th Mediterranean Petroleum Conference & Exhibition (MPC 2004), International Energy Foundation (IEF), Tripoli, LIBYA, 2004.

c3

Evaluation of Ambient Air Quality in Kuwait with a Case Study of Al Fahaheel City, AIChE Annual Meeting 2025, No. 2-6, 2025.

d) Number of Citations and H-index

Number of Citations: 117

h-index: 7

VIII. Short courses

- | | | |
|--|-----|-----------|
| a. Oral communication and presentation skills, | KPC | 2006 |
| b. Fundamental of Petroleum Engineering, | KPC | 2006-2008 |
| c. Chemical Waste Management, | MOI | 2016 |
| d. Environmental Law in Kuwait | MOI | 2016 |
| e. Environmental Impact Assessment | MOI | 2016 |

IX. Training

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|---------------------------------------|-----|-----------|
| a. Senior Students Training, | KOC | 2015-2019 |
| b. EIA for Senior Projects' Students, | KU | 2018-2019 |

X. Conferences

- | | | | |
|----|--|----|------|
| a. | KIPSE-SPE, Official Speaker | KU | 2005 |
| b. | Alternative Energy Resources, Scientific Committee Head, Kuwait, | | 2009 |

XI. Honors and Awards

1. Environment Person of the Year in Asia 2012, Dubai, UAE.

XII. Other Honors and Awards

1. Award of Recognition in Environment, Kuwait Oil Company, Kuwait, 2010
2. GCC Environmental Achievement Award, Oman, 2011

XIII. Membership in Professional Societies

1. Society of Petroleum Engineers (SPE).
2. Kuwait University Faculty Association.
3. Kuwait Society of Engineers (KSE).
4. The National Scholars Honor Society.

XIV. Summary of Instructor Evaluations Forms Submitted for Promotion

XV. Summary of Dates of Papers Submitted for Promotion

XVI. List of Taught Courses

a) Undergraduate Program

0650-101	Introduction to Petroleum Engineering in Arabic
0650-221	Reservoir Rock Properties
0650-312	Petroleum Industry
0650-322	Reservoir Rock Lab
0650-323	Phase Behavior of Reservoir Fluids
0650-325	Fluid Flow in Porous Media
0650-333	PVT Lab
0650-351	Petroleum Geology
0650-352	Subsurface Mapping
0650-354	Well Logging
0650-355	Well Logging Lab
0650-427	Secondary Recovery
0650-450	Industrial Training

0650-461 Rock Mechanics

0650-496 Petroleum Engineering Design

b) Graduate Program

2090-503 Petroleum Engineering II

2040-562 Environmental Auditing

2090-541 Core Analysis

2090-503 Petroleum Engineering II

2040-562 Environmental Auditing

2090-505 Introduction to Petroleum