

Mustapha Bello

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Ph.D. Student

Aspiring Chemical Engineering Ph.D. scholar specializing in the Energy and Environment sector, fervently engaged in pioneering research on converting CO₂ into valuable fuels such as ethanol and vinegar through advanced electroreduction techniques. Passionately committed to the ethos of sustainable energy and spearheading initiatives for realizing the goal of net zero carbon emissions.

Educational Background

2021 - Present

Ph.D. Student, Cain Department of Chemical Engineering

Louisiana State University, Baton Rouge, Louisiana. USA

2010-2012

Master of Science in Reservoir Geoscience and Engineering

ENSPM - École Nationale Supérieure du Pétrole et des Moteurs (IFP School),
Rueil-Malmaison, France

2003 - 2008

Bachelor of Science in Chemical Engineering

University of Lagos, Lagos, Nigeria

PUBLICATIONS:

Title: A guide to design the trajectory of active particles: From fundamentals to applications

August 2022. Current Opinion in Colloid & Interface Science. <https://doi.org/10.1016/j.cocis.2022.101612>

Title: Biofilm Formation Influences the Wettability and Settling of Microplastic. October 2022. Environmental Science & Technology Letters. ACS. <https://doi.org/10.1021/acs.estlett.2c00728>

PRESENTATION:

Title: Rolling of Janus particles in magnetic fluids

96th ACS Colloids and Surface Science Symposium, Golden, Colorado School of Mines, July 12, 2022

FELLOWSHIPS:

1. Board of Regents Graduate Fellow Program

2. George A Daniels Graduate Fellowship Engr
3. Southern Regional Education Board Fellow Program
4. NSBE/Intel Scholars

LEADERSHIP / LEADERSHIP AWARD:

1. Global Leadership Award (Awarded in Thailand)
2. President, African Graduate Student Association (AGSA) LSU, 2023-2024
3. President, African Graduate Student Association (AGSA) LSU, 2022-2023
4. President, Chemical Engineering Undergraduate Class, 2003-2008

CENTER FOR THE INTEGRATION OF RESEARCH, TEACHING AND LEARNING (CIRTL)

1. An Introduction to Evidence-Based Undergraduate STEM Teaching (Fall 2023)

MASSIVE OPEN ONLINE COURSES (IFP SCHOOL, FRANCE), 2016 THROUGH 2020

1. MOOC Energy Transition, 2020
2. MOOC Energy Transition, 2019
3. MOOC Tomorrow's Mobility, 2018
4. MOOC Sustainability Mobility, 2017
5. MOOC From Exploration to Distribution, 2016

ACADEMIC HONORS:

1. Best Graduating Student in Engineering, University of Lagos. 2008
2. Best Graduating Student in Chemical Engineering, University of Lagos. 2008
3. Academic Leadership Award, University of Lagos. 2008

ACADEMIC ASSOCIATION

1. Electrochemical Society (ECS)
2. American Chemical Society (ACS)
3. American Institute of Chemical Engineers (AIChE)
4. Society of Petroleum Engineers (SPE)
5. National Society of Black Engineers (NSBE)
6. National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCChE)

Professional Experience

— Key Qualifications —

- ◆ I am a highly analytical thinker who can think outside the box to determine the best action to solve a scientific problem.
- ◆ I have excellent communication skills and thrive on individual or collaborative projects to achieve individual or collective success.
- ◆ I have a solid ability to think creatively and communicate effectively with a diverse team of scientists.
- ◆ I have a solid ability to pay attention to details.
- ◆ Significant challenges inspired me with a passion for making a positive contribution or change.
- ◆ Laboratory equipment: Outstanding, hands-on and maintenance skills. [L]
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- ◆ Ambitious, high-energy self-starter with demonstrated ability to ensure the safety of Oil and Gas field operations and maintain an intimate knowledge of current technological changes and operating procedures regarding equipment, tools, and practices.
- ◆ A transformational leader with excellent Communication and Organizational Skills and a remarkable ability to uncover root causes and train teams to discover previously unrealized solutions focused on values and culture.
- ◆ Significant challenges inspire me with a passion for helping others succeed through shared learning and teamwork.
- ◆ Inventive and motivated professional with impressive leadership and management skills and exceptional experience in Open-hole and Cased-hole reservoir operations.
- ◆ With my exceptional ability to manage an Oilfield operation, I pay great attention to the Safety of Personnel and Equipment.
- ◆ I have outstanding equipment maintenance skills (Logging units and logging tools).
- ◆ I have significant experience ensuring compliance with the company's policy and standards and adhering to good oilfield practices.

BAKER HUGHES, a GE COMPANY (USA, Canada and Argentina)


- **Field Engineer General**, August 2019 to August 2020
- **Field Engineer Senior**, September 2018 to July 2019

An engaging and detail-oriented team Leader with exceptional experience as a Field Engineer General and a solid ability to acquire, process, and interpret reservoir data.

Under broad direction, I determine and develop a resolution to an assortment of problems encountered at the well-site of moderately complex scope where analysis of situations or data requires a review of various factors.

Selected Contributions:

- ◆ Under broad direction, determines and develops resolution to an assortment of problems encountered at the well-site of moderately complex scope where analysis of situations or data requires a review of various factors.
- ◆ Supervises the training of less experienced engineers and personnel
- ◆ Performs additional duties within the district
- ◆ Works with Customer Representative and drill crew on location to coordinate operations with the rig and or production facility

- ◆ Provides a record of all assemblies as run to the Customer Representative at the well-site
- ◆ Advises Customer Representative in the logging and completion operations; interpreting logging data, troubleshooting, and other well-site analysis and decision-making processes
- ◆ Supervises crew and equipment at the well-site and the shop to provide specific logging and completion services
- ◆ Responsible for the maintenance of equipment and facility.
- ◆ Maintains records and communications as required by the District Manager.
- ◆ Assists with the training of assigned personnel in completion operations and maintenance.
- ◆ Promotes and maintains good customer relations.
- ◆ Performs all required responsibilities safely and as described in Managing Base Operations, Managing Well Operations, and Managing Equipment and Logistics manuals.
- ◆ Performs other related duties as required.
- ◆ Conducts all business activities according to the company's HSE policies, Legal Compliance  requirements, and Baker Hughes Core Values.

NOVELLA, an IQVIA COMPANY (USA)

Research Associate, December 2016 to March 2018

Maximize operational efficiency of significant, highly sophisticated projects as Primary Contact between Novella, investigational site, and pharmaceutical company; coordinate all correspondence and ensure timely transmission of clinical data with the study site and technical reporting. Provide vital structure through the performance of study initiation activities, protocol review with site personnel, monitoring regulatory issues and study procedures, and provision of eCRF completion training. Embrace accountability for establishing site evaluation visits of potential investigators; authorized to request site audits in response to data integrity concerns; assurance of completion of study deliverables per Novella and study timelines; and conduct Field Visits to Cancer Centers and Field Training of other Research Associates.

Selected Contributions:

- ◆ Demonstrate insightful leadership and enhance the clarity of mission by ensuring internal and study-related training is completed promptly.
- ◆ Ensure efficient operations and enhance staff capacity through EDC system training and verification of site computer system.
- ◆ Verify the quality and integrity of clinical data by reviewing electronic CRF data and verifying source data.
- ◆ I coordinated activities with the site in preparation for study initiation in close collaboration with the ISSC department.
- ◆ I performed a study-monitoring visit as defined in the study-specific Clinical Monitoring Plan and SOPs.
- ◆ I performed study closeout visits related to the study-specific Clinical Monitoring Plan, including final investigational product reconciliation and disposition, site study file reconciliation, data query resolution, and outstanding action items.
- ◆ I was honored to be awarded *Team Recognition for Excellence*, *Client Recognition for Excellence*, and *Manager Recognition for Perfect Metrics*.

SCHLUMBERGER

Field Engineer Senior, April 2012 to October 2016

- **Schlumberger Middle East** - Saudi Arabia
- **Field Engineer Senior**, May 2015 to October 2016

- **Schlumberger Asia Services Limited** - India
- **Field Engineer Senior**, September 2012 to April 2015

- **Schlumberger Middle East** – United Arab Emirate
- **Field Engineer**, April 2012 to September 2012

Created long-lasting success through leadership and supervision of sophisticated Oil Field Operations; Exhibited calm, clear-headed leadership through management of oilfield crew during preparation, initiation, and finalization of oilfield operations.

Selected Contributions:

- ◆ I maximized efficiency by promptly and accurately submitting all required reports and data.
- ◆ I demonstrated strong leadership by delivering high-quality service to Oil Producing Companies.
- ◆ I applied strong leadership talents through Open Hole and Cased Hole Logging and Interpretation, Coring, Formation Pressure Testing / Sampling, and Seismic / Explosive Operations.
- ◆ I delivered key contributions toward success by providing efficient open-hole and case-hole oilfield operations, performing all processes with the highest regard for all personnel and equipment safety, and maintaining assigned equipment and facilities to established standards, including calibrations.
- ◆ I provided high-quality service to Clients (Oil Producing Companies).
- ◆ I effectively planned and prepared for well-site operations.
- ◆ Promptly and accurately submit all required reports and data.
- ◆ Leading and supervising Oil Field Operations.
- ◆ Training and Development of Junior Employees
- ◆ Was recognized for Reservoir Optimization contributions to completing high-profile open-hole and cased-hole oilfield operations.
- ◆ Recognized for Leadership, Safety, and Efficiency by Oil and Natural Gas Corporation India.
- ◆ Recognized for Offshore and Onshore Safety.

TOTAL

Reservoir Engineer (USAN FIELD), July 2011 to December 2011

Demonstrated innovation and capacity to excel through work on sophisticated projects, including Well Interference Design. Rock Compressibility Data Analysis and Gas Management Design. Successfully wrote programming language to optimize reservoir production; recognized by Project Manager for contributing to the project's success during tenure at TOTAL.

**Additional Experience as a Petroleum Engineer in TOTAL.*

Professional Development

Radiation Level 2 Certified (Radiation Safety Officer)

Explosive Level 2 Certified (Explosive Safety Officer)

QHSE Certified

Crew Management

Certifications and Licenses

Microsoft Office Suite • Offshore and Sea Survival Training • HSE • OP • Maxell • Eclipse • Pie • MBAL • Prosper • HYSIS • Lotus Notes

Honors and Awards

Safety Award • Best Graduating Student in Department of Chemical Engineering, Class of 2008 • Best Graduating Student in Faculty of Engineering, Class of 2008 • Student President (BSc) from the year 2003 – to 2008