



Mary-Joan Chikaodili Oledibe, Chemical Process Engineer

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SUMMARY

A Chemical Engineer with over 10 years of experience in the oil and gas sector and a PhD in environmental remediation and material science at Sheffield Hallam University. Proficient in process optimisation, quality control, and skilled in various industry-standard software including AutoCAD. Achieved technical compliance in multi-million dollar projects, enhancing operational efficiency. Eager to leverage extensive expertise and a strong analytical background to innovate and improve chemical processes, contributing effectively to the success of industrial projects.

WORK EXPERIENCE

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| 07/2025 – 01/2026 | Casual Research Assistant, Circular Labs Project (Royal Society of Chemistry Funded), Sheffield Hallam University Sheffield, UK |
| | <ul style="list-style-type: none">• Contributed to the development of a laboratory-based recycling model for single-use LDPE (low-density polyethylene) films, aimed at promoting sustainable research practices and reducing plastic waste in laboratories.• Assisted in establishing and optimising an in-house recycling process for LDPE, including collection, sorting, mechanical recycling, and injection moulding of plastic waste.• Supported the creation of a benchmark database on recycled LDPE material properties through chemical, thermal, and mechanical characterisation.• Evaluated the feasibility of producing value-added lab consumables (e.g., test samples, containers, etc.) from recycled plastics.• Engaged in data analysis, and reporting. |
| 09/2023 – 11/2024 | PGR Casual Researcher- Physics department (Part-time), Sheffield Hallam University |
| | <ul style="list-style-type: none">• Contributed to the development of the Foundations Programme for undergraduates, enhancing analytical and technical skills. |
| 01/2010 – 02/2021 | Chemical Engineer, Ministry of Petroleum Resources Abuja, Nigeria |
| | <ul style="list-style-type: none">• Provided technical and policy oversight for Nigeria's oil & gas sector, ensuring regulatory compliance while advancing the ministry's objectives to establish a market-driven oil and gas industry.• Acted as a key team member in the Gbaran Phase 2A Project, ensuring a reliable supply of 1.3 trillion cubic feet of gas to Nigeria Liquefied Natural Gas Limited (NLNG) Bonny.• Acquired over 50 specialised oil & gas training programmes, including Project Cost Engineering, Pipeline Management, and Risk Analysis.• Worked closely with the National Oil Spill Detection Response Agency (NOSDRA), Nigeria. |
| 03/2003 – 05/2007 | Process Control Engineer, Michelin Nigeria Limited, Tyre production factory |
| | <ul style="list-style-type: none">• Conducted comprehensive capability studies on all production floor machinery to ensure compliance with specified operational settings and industry standards.• Analysed machine performance data to identify trends, variances, and opportunities for optimisation, thus enhancing overall production efficiency. |

- Compiled detailed monthly reports assessing machine effectiveness, highlighting high-performing equipment while identifying underperforming assets for corrective action.
- Collaborated with maintenance and production teams to implement process improvements, ensuring sustained operational excellence.
- Served as Safety Coordinator for the Quality Department, ensuring strict compliance with safety regulations.
- Received French language training for technical translation of tyre design specifications.

02/2000 – 03/2003

Resident Engineer, Reid Crowther Engineering Consultancy, Nigeria

- Collaborated on the design and infrastructural assessment of the Ugborodo New Town project, encompassing stormwater drainage, road and road drainage systems, sewage treatment, water supply, electrical distribution, and solid waste management.
- Completed training in fundamentals of AutoCAD R14, WATSYS, SANSYS, and HYDSYS in Calgary, Canada.
- Played a pivotal role in developing the Property Identification Tax System roadmap for the Lagos State Government, thus enhancing urban planning and revenue management.

Industrial Attachment (6 months student placement) – Production & Quality Departments, Golden Guinea Breweries Ltd Umuahia, Abia State, Nigeria

- Assisted in monitoring product quality, conducting basic tests, and ensuring adherence to production standards.

National Youth Service Corps, Nigerian Society of Chemical Engineers headquarters Ikeja, Lagos, Nigeria

- Supported the organisation of meetings and conferences throughout the country.

EDUCATION

02/2021 – 09/2025

Sheffield Hallam University Sheffield, United Kingdom
PhD , Environmental remediation, sustainability and circular economy

- Research focus: Remediation of crude oil spills on water using waste poly(ethylene)-derived sorbents. Winner of Best Student Poster Award (Public & Judges' Vote, MERI Symposium 2022). Completed Teaching Skills for Doctoral Students (March 2024).

2008 – 2011

Federal University of Technology Minna, Nigeria
M.Eng., Chemical Engineering

- 4.3/5.0

1992 – 1998

Enugu State University of Science and Technology (ESUT), Nigeria
B.Eng., Chemical Engineering

- Second Class Upper Division

SKILLS

Environmental Remediation & Materials Science

Cost Engineering

Process Optimisation & Quality Control

AutoCAD R14, WATSYS, SANSYS, HYDSYS

Microsoft Office (Word, Excel –
Basic Proficiency)

LANGUAGES

English (Fluent)

• French (Basic (Technical Proficiency
in Tyre Design Translation))
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INTERESTS

Shopping

watching movies

dancing

charity work

playing native games

CERTIFICATES

Teaching Skills for Doctoral Students
Sheffield Hallam University

03/2024

Project Cost Engineering in Major EPC Projects
Abuja, Nigeria

Safety & Risk Management in Oil & Gas
Lagos, Nigeria

Hazard Identification & Risk Assessment (HAZID, HAZOP)
Lagos, Nigeria

Incident Investigation & Root Cause Analysis
Lagos, Nigeria

Pipeline & Project Cost Engineering
Abuja, Nigeria

Leadership, Training & Mentorship
Port Harcourt, Nigeria

Pipeline Project Management & Oil Simulation (OilSIM)
Abuja, Nigeria

Incident Investigation & Root Cause Analysis
Lagos, Nigeria

Total Quality System & Advanced Petroleum Economics
Cairo, Egypt

Sustainability foundations core concepts

03/2026

Six sigma yellow belt
LinkedIn learning

03/2026

Quality management foundations
LinkedIn learning

03/2026

Occupational safety and health (Fire and Emergency preparedness)
LinkedIn learning

03/2026

REFERENCES

Dr Francis Clegg
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