

OLUSEGUN “STANLEY” TOMOMEWO, PhD., MBA., PMP., CBAP., EIT.

Grand Forks, ND 58201

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Assistant Professor

ASSISTANT PROFESSOR || OIL & GAS || ENERGY SYSTEMS || PROJECT MANAGER || ENERGY SUSTAINABILITY

EXECUTIVE SUMMARY

As a distinguished professional in energy sustainability and clean energy supply, I specialize in the analysis and optimization of energy systems, encompassing both conventional resources, renewable technologies such as geothermal energy, unconventional oil and gas assets development. My expertise extends to advanced hypersaline oil and gas wastewater management, Lithium-Ion extraction processes, and the pioneering field of geological storage of hydrogen and carbon dioxide for decarbonization purposes. My academic career is marked by a strong commitment to mentorship, guiding MS and PhD students, and contributing extensively to peer-reviewed journals and conference papers. I adeptly bridge the gap between academic research and practical applications, focusing on aligning academic endeavors with market needs and the broader goal of energy sustainability.

EDUCATION

DOCTOR OF PHILOSOPHY IN ENERGY ENGINEERING, 2021 –
University of North Dakota, *Grand Forks, ND*

MASTER OF ENGINEERING IN ENERGY SYSTEMS ENGINEERING,

2020 – University of North Dakota, *Grand Forks, ND*

MASTER OF BUSINESS ADMINISTRATION, 2013– University of Port Harcourt Business School, *Port Harcourt, Nigeria*

MASTER OF SCIENCE IN ENERGY TECHNOLOGY &

MANAGEMENT, 2011 – University of Ibadan, *Ibadan, Nigeria*

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING, 2006 – University of Ibadan, *Ibadan, Nigeria*

TEACHING & RESEARCH EXPERIENCE

ASSISTANT PROFESSOR/DIRECTOR, ENERGY ENGINEERING GRADUATE PROGRAMS, 2023 - Present
University of North Dakota – Grand Forks, ND

Chosen to manage Energy and Petroleum Engineering graduate programs including teaching core courses.

- Manage day-to-day graduate program administrative operations including admissions, enrollment, and graduation processes, recruiting prospective students, and budgeting and allocating resources
- Collaborate with faculty to design, develop, and implement new courses, programs, and degree requirements
- Provide guidance students including academic advising, mentorship, and development opportunities
- Build relationships and provide resources and support to faculty to drive excellence in teaching and research
- Engage with external stakeholders including industry partners and other academic institutions to promote research collaborations and student exchange opportunities
- Support research initiatives and projects within graduate programs including overseeing proposal writing for research funding
- Designing the delivery and roll out of a new undergraduate curriculum and Program in Energy Engineering

Accomplishments

- Directed the merger of Energy and Petroleum Engineering programs to align with global energy transition needs
- Boosted enrollment through redoubled recruiting efforts
- Increased research published in leading journals for the Institute
- Increased graduate students' graduation success rate

ASSISTANT PROFESSOR/GRADUATE DIRECTOR, ENERGY & PETROLEUM ENGINEERING PROGRAM, 2022-2023
University of North Dakota – Grand Forks, ND

Charged with leading and managing graduate level Energy Engineering program.

- Designed, developed, and taught new courses for the Energy Engineering program

- Diversified program offerings by introducing mix of industry and academic standard courses such as Engineering Project and Business Management
- Contributed to grant proposal development to secure research funds
- Conducted research, published findings in academic journals, presented research at conferences and workshops, and pursued funding opportunities
- Served on departmental, college, and university committees, including student thesis/dissertation committees as academic advisor
- Supported outreach and engagement initiatives to improve community relations and standing
- Fostered Industry collaborations and engagement

Accomplishments

- Designed 10 new technical courses for Energy Engineering program
- Boosted program enrollment from 15 graduate students in 2019 to 85 students in 2020
- Increase doctorate degree success rate significantly

ASSISTANT PROFESSOR/DIRECTOR, ENERGY ENGINEERING GRADUATE PROGRAMS, 2021 - 2022

University of North Dakota – Grand Forks, ND

Chosen to manage Energy and Petroleum Engineering graduate programs including teaching core courses.

- Managed day-to-day graduate program administrative operations including admissions, enrollment, and graduation processes, recruiting prospective students, and budgeting and allocating resources
- Collaborated with faculty to design, develop, and implement new courses, programs, and degree requirements
- Provided guidance students including academic advising, mentorship, and development opportunities
- Built relationships and provide resources and support to faculty to drive excellence in teaching and research
- Engaged with external stakeholders including industry partners and other academic institutions to promote research collaborations and student exchange opportunities
- Supported research initiatives and projects within graduate programs including supporting proposal writing for research funding

Accomplishments

- Directed the merger of Energy and Petroleum Engineering programs to align with global energy transition needs
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GRADUATE RESEARCH/TEACHING ASSISTANT 2018-2021

University of North Dakota – Grand Forks, ND

Provided teaching and administrative support for the Institute for Energy Studies at the College of Engineering & Mines.

- Aided professors in designing, teaching, and continuously developing and updating Energy Engineering courses
- Assisted in diversifying the Energy Engineering program by adding industry standard subjects such as courses in Engineering Project Management
- Supported proposal development to secure research funding
- Conducted research, presented, and published results and in conferences and journal houses

COURSES BEING TAUGHT

At Graduate Level- ENE 510/511-Energy Systems Engineering 1&2, ENE 512-Energy Systems Optimizations, ENE 501-Managing Energy Resources & Policies, ENE 522-Energy Storage Systems, ENE 530 -Applied Engineering Business Analysis, ENGR 554-Applied Project Management

At Undergraduate Level- PTRE 405- Petroleum Economy & Law, PTRE 201-Introduction to Petroleum Engineering,

THESIS ADVISOR, RESEARCH INTEREST, GRANTS AWARDS & NOMINATIONS

PhD Dissertation Advisee- 15
 PhD Dissertation Co-Advisee- 10
 MSc Theses Advisee- 7
 MSc Thesis Co-Advisee- 4

No of PhD students Produced in the last 3 years – 10

Grant Participation in the last 3 years - 5

RESEARCH INTERESTS

Hydrogen Production and Geological Storage (Storage in Saline Aquifers, Depleted Oil reservoir & Salt Carven)

Low Carbon Technologies (Storage in Coal Seams, Depleted Oil Reservoirs & New Locations)

Energy Systems Economic Analysis (Systems and Unit approach Modelling with Systems Dynamics)

Geothermal Energy Systems (CO₂ Geothermal Plume, Hybrid Geothermal Systems, Enhanced Geothermal Systems)

Wastewater Management and Lithium-Ion Extraction Technologies (Mechanical and Chemical Process)

Conventional and Renewable Energy Systems Analysis & Optimizations (Linear & Non- Linear Programming, Machine Learning and other techniques)

AWARDS & NOMINATIONS

The Marqui who is who publication Board (*who is who in America 2023-2024*)

Society of Petroleum Engineering, UND (University of North Dakota) Student Chapter (*best Leadership/ Mentorship, 2022*)

Nominee *2024 Outstanding Graduate Teaching Faculty*, College of Engineering & Mines, University of North Dakota

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PROFESSIONAL ENGINEER (Energy & Petroleum)

|| OIL & GAS ASSETS MGT || ENERGY SYSTEMS OPTIMIZATION || PROJECT MANAGER || ENERGY SUSTAINABILITY

EDUCATION

DOCTOR OF PHILOSOPHY IN ENERGY ENGINEERING, 2021- University of North Dakota, Grand Forks, ND
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MASTER OF BUSINESS ADMINISTRATION, 2013- University of Port Harcourt Business School, Nigeria
MASTER OF SCIENCE IN ENERGY TECHNOLOGY & MANAGEMENT, 2011- University of Ibadan, Ibadan, Nigeria
BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING ,2006 - University of Ibadan, Ibadan, Nigeria

Key Competencies & Skills

As a drilling Optimization Engineer, I bring extensive experience in managing complex energy projects, particularly in the oil and gas sector. My expertise covers a broad range of areas including Exploration & Production (E&P) Asset Management, Well Control, and advanced drilling fluids formulations, Energy Systems Design & Optimizations, Energy Auditing, Management & Verification. I am notably skilled in high-pressure, high-temperature (HPHT) drilling, Subsea Well Intervention, and Completions. Additionally, I excel in Contract and Procurement Management, demonstrating strong abilities in technical selling and negotiation. My proficiency extends to Drilling and Completion Supervision, with specialized knowledge in Bottom Hole Assembly (BHA) selection, Smart Wells design, Sand Control techniques, and Production Testing. My comprehensive skill set, and experience make me an asset in any high-demand, technical environment within the energy sector.

Summary of Industry Experience: 12years

DRILLING OPTIMIZATION ENGINEER. 2013-2017

Schlumberger International – *Lagos, Nigeria*

Tasked with providing technical expertise to clients to support optimization of drilling operations.

- Conducted regular offset data analysis and performance evaluations to identify areas of improvement and design new plan or recommended changes to existing drilling programs and procedures
- Involved in design of drilling tools/optimization proposals designed to be presented to clients
- Applied designed drilling program on location to ensure successful drilling operations
- Mentored and trained junior engineers in drilling optimization and provided technical guidance and support to cross-functional teams
- Developed and implemented innovative technologies, processes, and practices to enhance efficiency and reduce costs
- Built and maintained strong relationships with clients to help identify needs and develop tailored solutions
- Led technical sales of drilling, completions, and production tools

Accomplishments

- Delivered clients more than 20% cost savings on most projects
- Reduced non-productive time (NPT) significantly for my clients most of the time
- Successfully drilled on all terrain and platforms (land, swamp, ultradeep offshore and shallow water) with no incident
- Served on team that helped increase drilling tools and remedial services sales annual revenue from \$24M in 2013 to \$32M in 2014

DRILLING & COMPLETIONS FLUIDS ENGINEER

Oando PLC – *Lagos, Nigeria*

2006-2013

Directed and managed all drilling and completions fluid activities for Oando PLC clients.

- Designed various drilling fluids formulation based on offset data analysis results, formation, and type of drilling
- Involved in drilling fluids proposals designed to be presented to clients
- Applied drilling fluids on clients' locations and ensured successful drilling operations
- Provided guidance to client teams to improve and optimize operations
- Identified, analyzed, and resolved operational challenges by helping in selecting best drilling fluids to be applied
- Trained and mentored newly hired staff
- Fostered a supportive and inclusive work environment.

Accomplishments

- Served as core part of the team that oversaw the merger of Halliburton/Oando Drill Bits business in Nigeria
- First indigenously trained drilling fluids engineer for Oando Energy Services (OES)
- Increased annual revenue up by more than 50% in 2010
- Developed a standard process enhancement document for Oando Energy Services
- Elected as Team Lead and helped to increase drill bits and advanced drilling technologies' annual revenue from \$10M in 2010 to \$25M in 2012

PROFESSIONAL MEMBERSHIPS

Society of Petroleum Engineers (SPE)

Association of Energy Engineers (AEE®)

Association of Professional Engineers and Geoscientist (APEGS®) of Saskatchewan, Canada - Engineer in Training

Association of Professional Engineers and Geoscientist (APEGS®) of Saskatchewan, Canada - PEng(In-view)

Nigeria Institute of Safety Professionals (NISP®)

Nigerian Society of Engineers (NSP®)

Council for the Regulation of Engineering in Nigeria (COREN®)

CERTIFICATIONS/TRAININGS

Certified Project Management Professional (PMP®)

Certified Business Analysis Professional (CBAP®)

Project Management Institute (PMI®) Badge Instructor

Introduction to E&P Asset Management Training, NEXT - Schlumberger Training, Houston, TX

Diamond fixed Step1- 3 Technical Sales Engineering Training - Schlumberger Learning Center, Sugarland, TX

Advance selling and Negotiation Skills - Schlumberger Training, Rankin Training Center, Houston, TX

F-MS-ST1&2- Technical Sales School - Schlumberger Sales School, Lagos, Nigeria

Basic Negotiation Skills - Schlumberger Training Center, Sugarland, Houston TX

Well Control Training (IWCF Combine Stack Supervisor Level) - Aberdeen Drilling School, Scotland, UK

Drilling and Completions Fluids Application Engineering - SLD Consulting, Port Harcourt, Nigeria (Mud School)

Project Management Using Prince II Methodology - Pitman Training, London U.K

HSE Level 2&3 Training - Nigeria Institute of Safety Professionals, Lagos Nigeria

Basic Offshore Safety Induction Emergency Training (TBOSIET) - M&O Bliston, Lagos, Nigeria

TECHNOLOGY

Microsoft Office Suite (including Word, Excel, PowerPoint, Outlook), Visio, MS Project, System Dynamics, System thinking & modeling, CMG Suite

OPERATORS SERVICED

Shell Petroleum Dev. Company (SPDC), Shell Exploration & Prod. Co (SNEPCo), Chevron Nigeria, Afren, Mid-Western Oil & Gas, Nigeria Agip Company (NAOC), Total Energies, Addax Petroleum, Seplat Petroleum Development Company, and some Marginal Fields Operators within Nigeria