

TCHEMONGO B. BERTE

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Open to relocation

Highly skilled and detail-oriented engineer Petroleum Engineering student with a master's in environmental engineering, with an extensive hands-on experience in research, teaching, and engineering roles; with an ability to install, maintain, and optimize complex systems; with experience in troubleshooting, problem-solving, and customer support. Adept at working independently or collaboratively within dynamic and challenging environments, with a commitment to continuous improvement and safety; seeking an opportunity in reservoir engineering, as a field engineer, and in water/waste water engineering to gain experience in for personal, professional growth and advancement.

EDUCATION

Master of Science in Petroleum Engineering

Expected Fall 2024

University of Oklahoma, **Cumulative GPA: 3.43**

Thesis: Investigating physical processes impacting enhanced oil recovery

Master of Science in Environmental Engineering

Summer 2021

University of Houston, Cullen College of Engineering, **Cumulative GPA: 3.46**

Thesis: Size Exclusion Chromatography (SEC) Method Development to Investigate Natural Organic Matter (NOM) and Organic Contaminant Binding Interactions

Bachelor of Science in Petroleum Engineering

Fall 2018

University of Houston, Cullen College of Engineering, **Cumulative GPA: 3.44**

Minor: Economics

WORK EXPERIENCE

Graduate Teaching/Research Assistant, University of Oklahoma, Norman, OK

Fall 2022 – Present

- Research interests include investigating physical processes and parameters impacting and establishing a protocol for laboratory studies of EOR for better planning and design of EOR applications in the field
- Conducted rock characterization experiments and conducted core flooding experiments with parameters close to field parameters resulting in a better estimation of oil recovery
- Enhanced student understanding in Reservoir Fluid Thermodynamics and Rock Properties courses through office hours, review sessions, and coursework.

Graduate Research Assistant, University of Houston, Houston, TX

Spring 2019 – Summer 2021

- Developed methods for analyzing binding between NOM and contaminants, resulting in faster results and data analysis.
- Mentored undergraduate students, ensuring proper experiment execution and resulting in a poster presentation.
- Gained experience in NOM extraction, Size Exclusion Chromatography (SEC), and HPLC UV TOC operations.
- Research interests included developing a high throughput method to determine binding between Natural Organic Matter (NOM) and contaminants (herbicides and drugs) in water, and determining the effect of zeolite as a substrate on photocatalysis (DEET degradation)

Engineering Intern, Ivorian Refining Company (SIR), Abidjan, Cote d'Ivoire

Summer 2018

- Estimated and forecasted expenses related to pump oil consumption, improving inventory tracking and logistics.
 - Collaborated with a multidisciplinary team to conduct material balance research on compressors for leak detection and flaring gas recycling.
 - Learned about different refining processes
 - Improved efficiency of fellow interns by coaching them on Excel functionalities, such as Pivot Tables.
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LEADERSHIP AND CERTIFICATES

Energy ESG Leadership Certificate, OU, Norman, OK

Fall 2023

- Certificate offered by the Ronnie K. Irani Center for Energy Solutions and Project Canary
- Focused on providing practical, experiential knowledge on the implementation and best practices of ESG in the Oil and Gas industry
- Learned about the ESG ecosystem, framework and ratings, and how leadership plays a big part in ESG
- Learned about Scope 1, 2, and 3 emissions and strategies to mitigate them

Secretary, OU Society of Petroleum Engineers, Norman, OK

Spring 2023-present

- Collaborated with a team of student leaders and young professionals for the planning and execution of events such as interview panels, tech talks, rig tours, and other social events.
- Collaborated with other officers to organize the trip to the 2023 ATCE conference in San Antonio.
- Kept meeting minutes and ensured proper communication between board members and student members via newsletters.

Graduate student committee chair, Jerry Holmes Leadership Program for Engineers and Scientists, Norman, OK

Spring 2023-Spring 2024

- Organized personal and professional development events for graduate students as the Graduate student committee chair.
- Collaborated with the Graduate Recruitment and Retention team to organize primer events to recruiting and poster session events

Engineering Pathway Mentor, Norman, OK

Fall 2023-present

- Assisted first-year engineering students with their transition to college life and academic success
- Lead meetings and info sessions to provide guidance to freshmen and inform them of available resources for them

Judge, Science & Engineering Fair of Houston, Houston, TX

Spring 2022

- Evaluated and selected the best projects in the Plant Science category.
- Interviewed participants on their project
- Performed scoring of the different projects and discuss with other judges to select the best project for the next stage

Secretary, UH Society of Petroleum Engineers, Houston, TX

Spring 2020

- Collaborated with a team of student leaders and young professionals for the planning and execution of events such as tech talks, company tours, and other social events.
- Kept meeting minutes and ensured proper communication between board members and student members via newsletters.

Judge, Science & Engineering Fair of Houston, Houston, TX

Spring 2019

- Evaluated and selected the best projects in the Environmental Sciences category.
- Interviewed participants on their project
- Performed scoring of the different projects and discuss with other judges to select the best project for the next stage

Secretary, UH Society of Petroleum Engineers, Houston, TX

Summer 2017-Spring 2018

- Collaborated with a team of student leaders and young professionals for the planning and execution of events such as professional development workshops, rig tours, and other social events.
- Kept meeting minutes and ensured proper communication between board members and student members via newsletters.

HONORS

Graduate Student Service Award, Norman, OK	Spring 2024
Tomorrow's Engineers Scholarship - Engineering Pathways Mentor Scholarship	Fall 2023- Spring 2024
Energy Explorer Scholarship, Houston, TX	Spring 2020
9 th Nano Conference, Sustainable Nanotechnology Organization (SNO), Best poster presentation award	Fall 2020
Dennis Clifford Graduate Fellowship, Houston, TX	Spring 2019
Scholarship from the Ministry of Petroleum, Abidjan, CIV Energy, and Renewable Energies	Spring 2014- Fall 2018

CONFERENCES

Virtual Poster presenter, 9 th Nano Conference, Sustainable Nanotechnology Organization (SNO), Title: Influence of zeolite substrate on photocatalysis by TiO ₂ nanoparticles	Fall 2020
Virtual Poster presenter, American Chemical Society-ACS Spring 2021 Conference Title: Size Exclusion Chromatography (SEC) Methods to Evaluate Contaminant Partitioning to Dissolved Organic Matter	Spring 2021
Presenter, American Chemical Society- ACS Southwest Regional Meeting, Presenter, Oklahoma City, OK Title: Establishing a Protocol for the Study of the Effectiveness of Enhanced Oil Recovery Techniques	Fall 2023