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| +44 (0) 739 9687 305 | | Uxbridge, UK | Kofo.Awodun@brunel.ac.uk |
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| **KOFOWOROLA AWODUN**  CHEMICAL ENGINEER | | | |
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| **Professional Summary** |  | Kofo is a detail-oriented doctoral researcher in the carbon capture and storage (CCUS) community, currently investigating the synthesis of waste materials for adsorption-based CO2 capture. She has a growing interest in clean energy technologies and decarbonization pathways, with a drive to contribute significantly to current global net-zero efforts. She has technical knowledge from vast studies and an increasing industrial engagement. She also has 3 years managerial experience in production management and experience in quality control in lubricant production industry. Her vast analytical, problem-solving and project management skills allow her to adapt comfortably in different industrial departments. | |
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| **Education** |  | 2023 - Date | **Brunel University London, UK****PhD Chemical Engineering** Research: “Synthesis & Application of Waste-derived Sorbent for CO2 Capture”  Utilizing bottom ash waste from Drax Power Plant, UK and eggshells to develop adsorbent that can be retrofitted for CO2 capture.  Supervisor: Dr Salman Masoudi Soltani |
|  |  | 2018 - 2019 | **University of Southampton, UK****MSc Environmental Pollution Control** Dissertation: “Removal of Microplastics from Different Stages of Wastewater Treatment Plant”  Supervisor: Professor Ian Williams |
|  |  | 2013 - 2018 | **Landmark University, Omu-Aran, Nigeria** **BEng Chemical Engineering**  Grade: First Class *Honors* (4.58/5.0 CGPA)  Dissertation: “Effects of Process Parameters on Palm Oil Bleaching using Animal Bone-based Activated Carbon” |
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| **Honors and awards** |  | February 2018 | **Award of Recognition (Landmark University)** Certificate of Recognition of Excellent Performance from the  Office of the Registrar, Landmark University. |
|  |  | May 2015 | **Award of Service (Nigerian Society of Engineers)** Award of Service as Member of the Student Representative Council, Nigerian Society of Chemical Engineers, Landmark University Student Chapter. |
|  |  | July 2013 | **Certificate of Merit (Effective International College, Nigeria)** Certificate of Good Leadership as Laboratory Prefect (Secondary School Recognition) |
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| **Industrial work Experience** |  | 2020 - 2023 | **Production Manager**  Fiftyfifty Institute Limited Supervising the printing press and all operations on the printing floorEquipment maintenanceStore keeping |
|  |  | January 2017 -  July 2017 | **Quality Control Intern**  **Lubcon Group, Nigeria**  Quality Control Testing to ensure lubricant are up to standard Lubicant packaging and assisting on the blending floor |

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| **Research experience** |  | December 2024 – May 2025  August 2024 - Date | **Research Assistant (SeaCure)** Research assistant leading the CO2 purification package of the government funded CO2 capture project removing CO2 from seawater at Weymouth. Duties included preliminary experiments, equipment selection, process automation and commissioning of a pilot scale adsorption column for CO2 capture **Research Assistant (Brunel University)** Process experimentation, design and control for the adsorption of CO2 in flue gas and air using a lab-scale pressure/vacuum swing adsorption I helped design and install. |
|  |  | May 2024 – July 2024 | **Research Assistant (Brunel University)** Characterization and Analysis of NdFeb waste magnets Responsibilities include: Conducting thermo-gravimetric analysis (TGA) experiments on NdFeb magnets to understand how they decompose under nitrogen and air;Conducting TGA experiments on DES electrolytes to understand their isotherms.Conducting combustion experiments to understand how NdFeb magnets behave under thermal conditions. |
|  |  | 2023 - Date | **Post-Graduate Researcher (Brunel University)**  Research: “Synthesis & Application of Waste-derived Sorbent for CO2 Capture”  Utilizing bottom ash waste from Drax Power Plant, UK and eggshells to develop adsorbent that can be retrofitted for CO2 capture. |
|  |  | 2017 - 2018 | **Undergraduate Dissertation (Landmark University)** Dissertation: “Removal of Microplastics from Different Stages of Wastewater Treatment Plant” |
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| **Teaching experience** |  | 2024 – Date | **Graduate Teaching Assistant & Demonstrator**  **Brunel University London,**  Chemical Engineering Taught labs of Chemical Reaction kinetic module  * Coordinated grading of lab reports |