Dr. Gregory Esosa Onaiwu

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Dr. Gregory E. Onaiwu is a distinguished Atmospheric Chemist and Environmental Data Scientist at Benson Idahosa University, Nigeria. He is a specialist in air quality monitoring, environmental pollution control, and the ethical application of artificial intelligence for sustainable development, with over 20 publications in high-impact journals, including Springer, Elsevier, and the Tropical Journal of Chemistry.

He is a recipient of the Distinguished Professor Peter Okebukola Award for Overall Best Project at the Virtual Institute for Capacity-Building in Higher Education (VICBHE), 2024. He has also collaborated on major research projects funded by Global Affairs Canada, the Canadian Institutes of Health Research, and the OPEC Fund for International Development. His research focuses on pollution modeling, fine particulate matter (PM2.5), and AI-driven environmental solutions.

Dr. Onaiwu has established significant international collaborations, including partnerships with Springer Nature on Environmental Chemistry Research and Global Affairs Canada on pollution control initiatives. His expertise in artificial intelligence has led to groundbreaking applications in environmental data modeling and atmospheric chemistry.

As an experienced lecturer and administrator, Dr. Onaiwu has contributed immensely to the academic development of Benson Idahosa University. He is currently the Head of the Chemistry Program and serves on the University Artificial Intelligence Committee. He also plays a key role in BIU's Webometric and Research Publication Committee and the University Committee for the Implementation of Turnitin Plagiarism Detection Software.

He has successfully secured millions of naira in research grants, including projects on heavy metal characterization in fine particulate matter ($PM_{2.5}$), AI-based quality of service enhancement in communication networks, and phytochemical analysis for maternal and pediatric health promotion.

Dr. Onaiwu has played a leading role in science outreach programs, engaging secondary school students in environmental pollution awareness. His passion for mentoring young scientists and developing innovative solutions for environmental sustainability has earned him recognition within and beyond Nigeria.

He is a member of the Chemical Society of Nigeria (CSN) and has received several awards for his contributions to research and academia. His academic and research profiles are accessible on Google Scholar, ResearchGate, ORCID, and Scopus.

Dr. Gregory Onaiwu continues to be a driving force in environmental chemistry, artificial intelligence applications, and sustainable development research at Benson Idahosa University, positioning himself as a leading figure in interdisciplinary scientific innovation.