**Dr. Chijioke Emenike**

Toronto, Ontario M9V 4M2

emenikecu@gmail.com ⬝ 437-238-2496

linkedin.com/in/emenikechijioke

**Environmental Science Professional**

Diverse research, academic, and professional background in environmental monitoring and toxicology. Extensive experience researching solutions for industrial issues related to risk assessment, pollutant reduction, waste management, and wastewater treatment. Adept at delivering concrete results through diligent research and meticulous maintenance of current industry knowledge. Talented communicator with a history of clearly and concisely communicating complex scientific information to a variety of audiences. A passionate mentor and collaborator, with solid leadership skills and an ability to exceed expectations with minimal supervision.

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| * Risk Assessment * Microbiology / Biotechnology * Environmental Science Research | * Water, Waste and Wastewater Management * Environmental Pollution & Solutions * Leadership, Instruction, and Mentoring |

**Professional Experience**

Hezekiah University, Nkwerre, Imo, Nigeria

**Professor, Head of Department (Biological Sciences)**, 2016 - 2018

Planned clear and concise lessons, delivered lectures, and facilitated undergraduate student learning on a variety of biological science topics, including complex mechanics of chemosynthetic, autotrophic, and saprophytic nutrition in microorganisms. Created, administered, and evaluated examinations and assignments to assess successful achievement of student learning objectives. Led, mentored, advised, and collaborated with students on academic, career, and research matters. Fostered engaging discussion and led hands-on laboratory sessions focused on a diverse range of subjects, such as: cell theory, histological and hematological techniques in biological assessments of samples, principles of spectrophotometry, molecular basis of inheritance, and agricultural microbiology and biotechnology.

* Pioneered the 80% digital teaching content system among science faculty.
* Spearheaded the development of all departmental programs.
* Managed all areas of research programs and championed exchange program opportunities for staff and students.

Malaysia University of Science and Technology, Petaling Jaya, Malaysia

**Adjunct Professor (Energy and Environmental Engineering)**, 2015 - 2016

Ensured student comprehension of complex topics through meticulous planning of lectures and exceptional communication skills. Expertly explained and collaboratively discussed the distribution of pollutants in the environment, the core relationship between scientific and technical aspects of environmental engineering, and a broad range of wastewater treatment technologies. Developed, administered, and analyzed student assessments to evaluate full understanding of complicated concepts. Counseled and empowered 100+ students to make strategic academic and career decisions.

* Established solid partnerships among governmental/industrial institutions and the university by developing an innovative Problem-Oriented Project-Based Learning (POPBL) system for the graduate program.

University of Malaya, Kuala Lumpur, Malaysia

**Senior Lecturer, Research Fellow, & Teaching Assistant**, 2010 - 2016

Led, supervised, and guided six graduate level students and eleven undergraduate level students in their academic and research pursuits. Prepared and taught several classes focused on environmental science and microbiology topics, including the delivery of lectures and evaluation of student learning though assignments and assessments. Counselled 300+ students on key academic and career decisions using professional expertise.

* Earned faculty commendation for improving student learning by exceeding expectations in the implementation of extra weekend sessions and enriching field trips.
* Directed two international scientific conferences with 500+ participants each.
* Advocated for conference participants’ needs by coordinating documentation with the immigration department to successfully procure necessary visas.
* Designed and implemented a project survey in five states of Peninsular Malaysia for a national plastic recycling pilot project.
* Achieved 70%+ success rate with providing solutions for sites contaminated with microplastics, heavy metals, and polycyclic aromatic hydrocarbons.
* Attracted research collaboration opportunities from 5+ global research universities.
* Earned $150,000+ in local and international research grants due to well-designed, solutions-oriented research efforts.
* Reduced landfill space by 15% by generating value-added product from vermicomposting.
* Established the carbon sequestration potential of above-ground biomass in mangrove forest
* Developed, proposed, and established the first Fish Lethal Leachate Toxicity Index (FLLTI) for standard risk assessment of toxicant effects of pollutants on aquatic ecosystems. This was a wastewater related project where I developed a tool that will be used to assess the level of impact on the environment and created a database that will serve as reference for future analysis on rivers, seas and oceans

Earth-Watch Integrated Technologies Limited, Port Harcourt, Nigeria

**Microbial Analyst (Supervisor)**, 2005 - 2008

Developed and implemented the company’s oil spill contingency plan (OSCP). Executed oil annual OSCP activation exercises with monitoring agencies to ensure adequacy and suitability of the plan to the scope and magnitude of the incidents they are supposed to manage. Engaged in several Post Impact Assessments to investigate the impact on the immediate environment following an oil spill incident and a host of other things

**Education and Credentials**

**Doctor of Philosophy in Environmental Toxicology & Bioremediation** (2014)

University of Malaya - Malaysia

*Excellence Award for Outstanding Achievement, 2014*

**Master of Technology in Environmental Management** (2010)

University of Malaya - Malaysia

**Bachelor of Science in Microbiology/Biochemistry** (2003)

University of Nigeria - Nigeria

**Professional Associations**

Asia-Pacific Chemical, Biological, & Environmental Engineering Society, Member, 2016 - Present

Malaysia Society of Waste Management & Environment, Member, 2011 - Present

**Publication**

**Published 40+ peer-reviewed articles and 4 book chapters. Publication list available upon request.**