

Curriculum Vitae

Nosa O. Egiebor, Ph.D., P.E.

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Office Address: Office of Global Engagement, University of Mississippi, Oxford,
Mississippi 38677,

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Professional Attributes: Highly experienced and knowledgeable in international education best practices; Academic affairs administration, including shared governance, research, and faculty affairs; Excellent background and leadership experience in new program development, and strategic planning.

Academic Administration Experience & Interests:

- Over 20 years of experience in developing, implementing, and managing international education programs.
- Over 20 years of senior administration and leadership experience, and over 30 years of academic experience as faculty with outstanding successes in research, securing external funding, and personnel administration.
- Experience in developing and managing academic programs at graduate and undergraduate levels, and non-academic personnel programs.
- Leadership in management of faculty affairs, academic regulation, and accreditation processes using international best-practices for excellence.
- Strategic planning and implementation for institutional advancement and academic quality enhancement at graduate and undergraduate levels.
- Experience in building and leading international recruitment and partnerships for institutional and academic program delivery, research, and teaching support.

Areas of Academic & Research Specialization: Chemical and environmental science and engineering with emphasis on (1) Renewable energy for sustainable development; (2) Industrial pollution abatement processes; (3) Water resources development and management; (4) Water & wastewater chemistry; (5) Water and wastewater treatment; (6) Reaction science &

engineering in energy and mineral resource exploitation; (7) Energy resources processing and sustainable energy development; and (8) Climate change mitigation and adaptation science and engineering.

Education & Professional Qualifications:

1. **Ph.D.** (1985) in Chemical-Metallurgical Engineering, **Queen's University**, Kingston, Ontario, Canada.
2. **M.S.** (1981) in Chemical Metallurgy, **University of Manchester**, Manchester, UK.
3. **B.S.** (1979) in Industrial Chemistry, **University of Benin**, Nigeria.
4. **P.E.** (1990) Registered Professional Engineer in Canada and USA.

Recent National and Professional Honors & Awards:

- i. **Member of Planning Committee of the** Commission on International Initiatives (CII) of American Public and Land Grant Universities (APLU)
- ii. **Member**, U.S. Environmental Protection Agency (U.S. EPA) - **Science Advisory Board (SAB)** for 2015 – 2018 tenure
- iii. **President's Award for Accomplishments** in Research and Sponsored programs Tuskegee University (2011)
- iv. **Recipient of US Fulbright Scholar Award** (2009-2010)

Employment History:

PART A: Positions As Senior University Administrator with Concurrent Faculty Appointments

2014 – Date: Senior International Officer, Executive Director of Global Engagement, and Professor of Chemical Engineering, University of Mississippi, Oxford, Mississippi. Reports to the Provost and Executive Vice Chancellor

Major Responsibilities of position include:

- a. Provide administrative and supervisory leadership to the Division of Global Engagement consisting of 4 administrative departments/units, including: (i) Office of International Programs, (ii) Study Abroad Office, (iii) Intensive English Language Program Office, and the (iv) U.S.-Japan Partnership Program Office.
- b. Advise the Chancellor and Provost on all international education & research, engagement, including academic and non-academic issues.
- c. Develop high level research & education partnerships with reputable research institutions around the world.
- d. Administrative supervision and oversight on all university international engagements including institutional partnerships for research, education, and recruitment of international students and faculty

- e. Supervision of all academic programs within the Intensive English language Program/Department, including departmental faculty and Personnel
- f. Responsibility for international student admission, including the processing, evaluation, and credentialing for all international students in the university.
- g. Development of international articulation agreements and joint/dual degree programs with international partners with academic programs mapping
- h. Administration of all study abroad and student exchange programs with numerous international institutions.
- i. Responsible for immigration processing of all international students, faculty, and research fellows
- j. Provide leadership for US-Japan Partnership Program (USJP)
- k. Represent University of Mississippi in the Commission on International Initiative (CII) of the American Public & Land Grant Universities (APLU), and other national international educational bodies.
- l. Assist in mentoring faculty across for comprehensive internationalization and global education.
- m. Administer the annual Faculty Professional Development Award for campus internationalization.
- n. Serve in University of Mississippi Strategic Planning Council (SPC)
- o. Serve in University of Mississippi Council of Academic Administrators (CAA)
- p. Serve in Provost's Academic Affairs Administrators Committee

Some Major Accomplishments Include:

1. Increased international student enrollment by over 30% in two years.
2. Developed and implemented the annual "Faculty Professional Development Award" program for internationalization, and administer the program for all faculty members at Ole Miss
3. Achieved increasing university-wide internationalization of faculty practices and processes
4. Developed numerous international research partnerships with direct faculty participation
5. Developed and implemented "Ole Miss in Africa" initiative with multiple institutional partnership for teaching, research, and student exchange.
6. Launched a major recruitment and partnership initiative in China
7. Provided leadership for establishment of a university-wide Comprehensive Internationalization Committee, and have chaired the committee since inception.
8. Secured USAID funded research grant of \$990,000 for Africa-U.S. Higher Education Partnership for 2014/2015.
9. Developed the International Recruitment and Marketing Strategic Plan for Office of Global engagement
10. Developed an e-brochure that is compatible with mobile platform around the globe for Ole Miss publicity

11. Led the negotiations and establishment of international undergraduate 2+2 Articulation agreements with (a) North China University of Technology, Beijing, China, and (b) Xiamen University of Technology, Xiamen, China.
12. Established two new Study-Abroad scholarship programs for undergraduate students.
13. Commenced the accreditation and self-study process for Intensive English Language Program (IEP) at the University of Mississippi
14. Initiated the international Pathways Partnership program with major partnership vendors.

2012 – 2014: Vice President for International Education and Research, and U.S. Dept. of Energy-Samuel P. Massie **Chair Professor** of Engineering, **Tuskegee University**, Tuskegee, Alabama.

Responsibilities include:

- a. Provide strategic and administrative leadership for the Division of International Education and Research
- b. Serve as a member of President’s cabinet
- c. Internationalize the curriculum, in addition to faculty practices and processes
- d. Significantly expand the global footprint of Tuskegee University in education, research, capacity building and partnerships in a major institutional focus on “*Bringing the World to Tuskegee University & Tuskegee University to the World*”
- e. Lead the development and implementation of graduate and undergraduate programs to support academic and research programs in partnership with reputable institutions around the World.
- f. Develop joint graduate degree (MS and PhD) programs with international institutional partners through MOU signing.
- g. Lead the effort to significantly increase the recruitment and enrollment of international students
- h. Represent Tuskegee University in the Commission on International Initiative (CII) of the American Public & Land Grant Universities (APLU), and other national international educational bodies.
- i. Develop new and innovative academic and research programs for education of future global leaders through international partnerships.
- j. Provide oversight for international students and faculty exchange programs
- k. Secure and administer major international research and development grants, cooperative agreements, and contracts from national, multilateral and bilateral funding agencies around the world.
- l. Provide leadership for the development, administration, and management of all international academic degree, diploma, and certificate programs, including the development of joint/dual degree programs.
- m. Provide administrative oversight over visa processing for students and faculty going abroad, and international students and visiting scholars.
- n. Continuously review international exchange and study abroad programs.

- o. Develop and administer the university international travel packet for students, faculty and staff at Tuskegee University.
- p. Administer divisional budget and supervise personnel and all projects in the Division of International Education, Research & Development.

Some Major Accomplishments Include:

- a. Developed the institutional compact for international student and scholar services.
- b. Achieved increasing university-wide internationalization of faculty practices and processes
- c. Led the negotiation and establishment of over 15 international partnership agreements with reputable international education and research institutions.
- d. Increased student mobility for study abroad engagement by more than 40%.
- e. Secured \$8.0 million of international research and development partnership funding from USAID
- f. Secured \$1.5 million international research collaboration award from the U.S. Department of Energy
- g. Led the writing of the strategic plan for comprehensive international education
- h. Successfully mentored numerous faculty members for international research collaboration and grantsmanship
- i. Led the initiative for institutional collaboration between Tuskegee University and Auburn University.
- j. Established student and faculty exchange program between Tuskegee university and the International Institute for Water and Environmental Engineering.

2007 - 2012: Director, Environmental Engineering Program, and U.S. Dept. of Energy-Samuel Massie Professor of Engineering, **Tuskegee University,** Tuskegee, Alabama.

Responsibilities include:

1. Work with Deans and Department Heads to *provide academic management and strategic leadership* for a university-wide and internationally themed environmental science and engineering research programs, with significant international engagements.
2. Establish research partnerships and collaborations between various disciplines in environmental science and engineering within and outside the university, and engage and train graduate students in environmental disciplines.
3. *Recruit personnel & provide financial management* for faculty and researchers in environmental science and engineering at Tuskegee Univ.
4. *Enhance minority & women recruitment, retention, and graduation* in science, technology, engineering, and technology (STEM) programs throughout Tuskegee University
5. *Oversee the academic and research budgets* for the environmental science and engineering program.
6. *Secure external funding* for research and sponsored programs.

7. *Assist in developing and expanding international STEM degree programs and research activities through support for diversity, multiculturalism and international programs, collaborations and partnerships with emphasis on joint academic training, student and faculty exchange programs, study abroad and major research projects.*
8. Administer multi-million dollar program budget and conduct participating faculty & staff evaluation for promotion, tenure, and merit raise.

Some Major Accomplishments Include:

- a. Created the campus-wide environmental science and engineering program with contributing faculty from 6 colleges.
- b. Established a multi-million environmental engineering laboratory
- c. Supervised the hiring and mentorship of faculty
- d. Secured over \$3.0 million in research funding in 5 years
- e. Trained 6 postdoctoral fellows and mentored over 25 faculty members from multiple disciplines.
- f. Instrumental in developing the curriculum for a new graduate institution in Tanzania i.e. Nelson-Mandela Institute of Science and Technology (NM-AIST)

2005 – 2007: Department Chair and Professor, Department of Environmental and Civil Engineering, Florida Gulf Coast University (FGCU), Fort Myers, FL.

Responsibilities include:

1. Lead the hiring of faculty members for the new Department of Environmental and Civil Engineering.
2. Lead the development of the new undergraduate programs in environmental and civil engineering at Florida Gulf Coast University, including new curricula development, labs, and engineering building design for the College of Engineering.
3. Provide mentorship, professional development leadership, and management of faculty and staff in the Department of Environmental and Civil Engineering.
4. Oversee the budgeting and financial management of the department.
5. Lead the development and introduction of a university-wide diversity program and serve in university diversity committee.
6. Trained as ABET Evaluator and worked to prepare BS degree programs in Civil & Environmental Engineering for ABET accreditation
7. Conduct faculty & staff evaluations for promotion, tenure, and merit raise.

Some Major Accomplishments:

- a. Developed the civil and environmental engineering undergraduate curricula for the new School of Engineering at FGCU.
- b. Recruited and mentored 8 faculty members for the department
- c. Recruited the first batch of students into engineering undergraduate degree programs at FGCU.

- d. Trained faculty for preparation for ABET accreditation.

1996 – 2005: **Program Director** of Environmental Engineering BS Degree Program, and United States Dept. of Energy-Samuel P. Massie Professor of Excellence in Environmental Science & Engineering, Chemical Engineering Department, **Tuskegee University**, Tuskegee, Alabama.

Responsibilities include:

1. Develop and lead the establishment of a new environmental science and engineering degree curricula at Tuskegee University.
2. Recruit faculty and research associates in environmental engineering
3. Teach and conduct research activities in various aspects of environmental science and engineering.
4. Mentor students and faculty in research and grantsmanship.
5. Write proposals to secure external funding for research and sponsored programs.
6. Assist in preparing the BS Chemical & BS Environmental Engineering programs for continuing ABET accreditation
7. Supervise environmental engineering faculty and research fellows.

PART B: Positions As Academic Faculty Member (without major administrative responsibility)

1993-1996: Professor of Mineral and Environmental Science and Engineering, Department of Chemical & Materials Engineering, **University of Alberta**, Edmonton, Alberta, Canada

Responsibilities include:

- a. Regular faculty responsibilities in teaching, research, and service
- b. Member of faculty of Engineering Tenure & Promotion Committee
- c. Member of Governing Council of the University
- d. Assistant to department chair on faculty affairs

1988-1993: Associate Professor of Mineral and Environmental Engineering, Department of Chemical & Materials Engineering, **University of Alberta**, Edmonton, Canada

1985-1988: Research Associate and Lecturer in Chemical Engineering, Department of Chemical & Materials Engineering, **University of Alberta**, Edmonton, Alberta, Canada.

Other Special Academic Leadership Experiences:

1. *Integration of Research & Experiential Learning into Undergraduate Education:*

- a. **2012 – 2014: Principal Investigator** on Consortium project for Research & Education for Matter under Extreme Environments” **\$600,000** for 2012 – 2014; Dept. of Energy/NNSA funding for consortium partnership development for integration of research into undergraduate training. Partnership between 4 institutions; (1) Tuskegee University, Alabama, (2) Florida A&M University, Florida, (3) Benedict College, South Carolina, and (4) Lawrence Livermore National Laboratory (LLNL), California.
- b. **1999 – 2005: Principal Investigator** for NASA project on “*Integration of Research into Undergraduate Science & Engineering Training*” under the Partnership Award for the Integration of Research (PAIR) into undergraduate science & engineering training. **\$2,500,000** for 1999 - 2005. Emphasis on faculty mentorship for undergraduate research and experiential learning. Funded by NASA Headquarters, Washington, DC.
- c. **2000 – 2006: Principal Investigator** for project on “Recruitment, Retention and Mentoring of Science & Engineering Students for integration of research in undergraduate Education. **\$1,800,000** for 2000-2006. Funded by the US Office of Naval Research (ONR).

2. *Internationalization of Faculty Practices & Processes:*

- a. **2014 – Date: Developed and implemented** the “Faculty Professional Development Award for Campus Internationalization” at the University of Mississippi – A program for continuing internationalization of faculty practices and the curriculum.
- b. **2012 – Date: Leadership in negotiation**, course matching and mapping, and development of faculty research exchange and 2+2 Dual Degree Articulation Programs with several universities, including (1) North China University of Technology, Beijing, China; (2) Xiamen University of Technology, Xiamen, China; MingDao University, Taiwan; Beijing Film Academy, Beijing China.
- c. **2014 – Date: Developed and implemented** a successful “Ole Miss in Africa” project for research partnerships, faculty exchange, and student mobility between Ole Miss and reputable universities throughout sub-Saharan Africa, <http://olemissinafrica.com/>.
- d. **2006 – Date: Member of the Scientific Council** of the International Institute for Water and Environmental Engineering (2iE) in Ouagadougou, Burkina Faso <http://www.2ie-edu.org/en/>.
- e. **2010 – 2015: Leadership** role in the development and implementation of a partnership MS and PhD degree programs in Mineral Science & Engineering at the International Institute (2iE) in Ouagadougou, Burkina Faso.
- f. **2010-2011: Consultant** on volunteer basis for curriculum development and international partnership for the Nelson Mandela-African Institute of Science & Technology (NM-

AIST) in Arusha, Tanzania, a university dedicated to graduate studies and research only, <http://nm-aist.ac.tz/>.

- g. **2010 - 2015: Program Director**, Africa-US Higher Education Initiative for Development; United States Agency for International Development (USAID) funded partnership program titled “*Africa-U.S Partnership Centers of Excellence in Water & Environmental Science and Technology*”. A 5-year \$8.1 million academic partnership program between Tuskegee University/University of Mississippi and 4 universities in Burkina Faso, Ghana, and Nigeria in West Africa.
 - h. **2008 to 2012: co-Program Director** (with Prof. Tony Ebeigbe), United Nations Educational, Scientific, & Cultural Organization (UNESCO) project on environmental science education & development in Nigeria titled “*UNESCO-GEIFON Chair in Environmental Sciences, at the University of Benin*”, Benin City, Nigeria. The Chair program was successfully completed and implemented in 2012.
 - i. **1995 (Summer): Invited Visiting Professor** in Chemical Engineering at Ankara University, Ankara, Turkey – Hosted by Prof. Hasip Yeniova.
 - j. **1994 – 1995: Visiting Professor as a German Govt. International Humboldt Fellow** at the Technical University of Berlin, Berlin, Germany – Hosted by Professor H. Wolfe.
 - k. **1994 – 1996: Consultant to GTZ** (now GIZ), the German international development agency, on education, research and industrial development strategies in the gold mining and processing in Ghana (capacity building at Kwame Nkrumah University of Science & Technology, Kumasi, Ghana).
3. Community Service for Scholarship & Research:
- a. **Associate Editor** for the International Journal: “*Asia-Pacific Journal of Chemical Engineering*, an International Journal Published by John Wiley & Sons (1998 – 2008)
 - b. **Grant Reviewer** for numerous national and international granting agencies, including National Science Foundation (NSF), Natural Sciences and Engineering Research Council (NSERC) of Canada; Australia Research Council (ARC); U.S. Environmental Protection Agency (EPA); U.S. Dept. of Energy (DOE); etc.
 - c. **Manuscript Reviewer** for numerous journals in environmental science and engineering, including Journal of Hazardous Materials, etc.

Recent Research Grants and Contracts Funding Received

1. Principal Investigator, “Africa-US Network of Centers of Excellence in Water & Environmental Science & Technology” **Phase I** (2011-2013); Awarded **\$8,100,000** total over 4 years by the United States Agency for International Development (USAID) in partnership with Intl. Institute for Water & Environ. Engineering (2iE), in Burkina Faso, Mali, & Ghana.

Phase II (2013 – 2015): with (1) 2iE as Principal African Partner, but including; (2) Federal University of Technology, Minna (UMaT) in Nigeria; and (3) The University of Benin in Nigeria.

2. Principal Investigator, “Consortium on Research & Education of Matter Under Extreme Environments” **\$600,000** for 2012 – 2014; Dept. of Energy/NNSA funding for consortium partnership for research in extreme environments. Partnership between 4 institutions; (1) Tuskegee University, Alabama, (2) Florida A&M University, Florida, (3) Benedict College, South Carolina, and (4) Lawrence Livermore National Laboratory (LLNL), California.
3. Co-Principal Investigator (with Prof. Tony Ebeigbe), United Nations Educational, Scientific, & Cultural Organization (UNESCO) grant for establishment of “*UNESCO-GEIFON Chair in Environmental Sciences, at the University of Benin*”, Benin City, Nigeria for 2009 – 2012; Awarded **\$1.0 million**.
4. Co-Investigator & Proposal Writer (with Profs. Amadou Maiga, Wole Soboyejo, and Burton Mwamila), “Partnership Research & Development for three Nelson-Mandela Institute (NMI) Affiliated Universities in Africa (2011 – 2014) including AUST-Nigeria, 2iE-Burkina Faso, and NM-AIST-Tanzania. Awarded at **\$10.0 million** for 3 years.
5. Principal Investigator, “Degradation of Materials under Severe Service Conditions” **\$1,500,000** for 2010 – 2015. Project Continuation Funding by the National Nuclear Security Administration (NNSA) of the US Dept. of Energy for Chair of Excellence Program in Engineering.
6. Principal Investigator, “Environmental Degradation of Structural Materials under Severe Service Conditions” **\$1,400,000** for 2005 – 2010. Funded by the National Nuclear Security Administration (NNSA) of the US Dept. of Energy for Chair of Excellence Program in Environmental Science & Engineering.
7. Principal Investigator, “Analysis & Design of Bio-Environmental Treatment Systems for Department of Energy Mixed Wastes”. **\$2,400,000** for 1996-2005. Funded by the US Department of Energy (DOE), Chair of Excellence Program in Environmental Science & Engineering.
8. co-Principal Investigator, “Recruitment, Retention and Mentoring of Science & Engineering Students for undergraduate Education. **\$1,800,000** for 2000-2006. Funded by the US Office of Naval Research (ONR) – include international collaboration supplement.
9. Principal Investigator, “Integration of NASA Related Environmental Biotechnology Research into Undergraduate Science & Engineering Training” under the Partnership Award for the Integration of Research (PAIR) into undergraduate engineering training. **\$2,500,000** for 1999 - 2005. Funded by NASA Headquarters, Washington, DC.

10. *Principal Investigator*, (with Dr. K. Nyavor as co-PI) “Microbial Stability Evaluation of Waste-Forms for Hazardous Waste Disposal”. **\$521,000** for 1997 - 2001. Funded by DOE/Idaho National Engineering & Environmental Laboratory (INEEL).
11. *Principal Investigator*, “A Co-metabolic Biotransformation of Propellant & Citric Acid Contaminants in NASA Scrubber Wastewater”. **\$400,000** for 1996-1999. Funded by NASA.
12. *Principal Investigator*, “Design of a Chromatographic Gas Analysis System for Uranium Fluoride Gases”. **\$35,000** for 1997. Funded by Lockheed Martin Energy Systems & Oak Ridge National Laboratory.
13. *Principal Investigator*, “Computer Infrastructure for Environmental Science & Engineering Research. **\$10,000** for 1997/98. Funded by Oak Ridge Institute for Science and Education (ORISE).
14. *Principal Investigator*, “Supercritical Water Oxidation of Organics”. **\$66,000** for 1993-1996. Funded by NSERC.
15. *Principal Investigator*, “Microbial Influence of Sulfide Mineral Oxidation during Acid Mine Drainage Formation”. **\$45,000** for 1989-1992. Funded by NSERC.
16. *Principal Investigator*, “Equipment Grant for AAS and TOC Analyzer” **\$20,000** for 1989-1990. Funded by NSERC.
17. *Principal Investigator*, “Column Flotation for Fine Coal Separation”. **\$36,000** for 1990 - 1994. Funded by Energy, Mines & Resources (EMR) of Canada.
18. *Principal Investigator*, “Silica Removal from Heavy Oil Produced Water for Boiler Recycling”. **\$150, 000** for 1991-1994. Funded by Amoco Petroleum Ltd. & Shell Resources Canada Ltd.
19. *Principal Investigator*, “Supercritical Water Oxidation (SCWO) for Treatment of Pulp Mill Wastewater”. **\$95,000** for 1992 - 1995. Funded by Abitibi-Price Inc., (Now Abitibi Consolidated Inc.) Toronto, Ontario, Canada.
20. *Principal Investigator*, “Activated Carbon Formation from Oil Sands Synthetic Crude Coke”. **\$102,000** for 1989 - 1991. Funded by Alberta Oil Sands Technology & Research Authority (AOSTRA), Edmonton, Canada.
21. *Principal Investigator*, “Silica Removal from Produced Water by the Hydrogarnet Process”. **\$60,000** for 1991-1992. Funded by Alberta Oil Sands Technology & Research Authority (AOSTRA), Edmonton, Canada.
22. *Principal Investigator*, “Natural Gas Processing Plant Wastewater Treatment by UV/Peroxide Oxidation”. **\$40,000** for 1994 - 1996. Funded by Alberta Environmental Research Trust (AERT), Calgary, Alberta, Canada.

23. *co-Principal Investigator, (with Dr. Murray Gray as PI) “Co-Processing of Oil Sands Bitumen and Coal Liquids”*. **\$150,000** for 1998-1991. Funded by Alberta Office of Coal Research, Edmonton, Canada.

Additional Awards and Honors:

- 1) Tuskegee University, Year 2000 Outstanding Faculty Performance Award for Research. (April 2000).
- 2) Life Member, American Institute for Chemical Engineering (AIChE), (2004).
- 3) US Department of Energy award for Outstanding Research and Teaching Accomplishments in Environmental Science and Engineering disciplines, (October 1999).
- 4) National Research Council (NRC), Board on Army Science & Technology “Certificate of Appreciation for Outstanding Service.” (December 1999).
- 5) Awarded the 1994/95 International Alexander von Humboldt Senior Research Fellowship in Germany; Tenable at the Technical University of Berlin, Berlin, Germany, July 94 -June 95
- 6) Visiting Professor at the Technical University of Berlin, Berlin, Germany, July 1994 to June 1995
- 7) Received a United States Patent #5,284,497 in April 1994.
- 8) Awarded The Minerals, Metals & Materials Society (TMS) Outstanding Service Award in 1993
- 9) Invited Visiting Professor, Ankara University, Turkey (July 1990).
- 10) Graduate Research Award, Queen’s University, Ontario, Canada (1983-1985)

Professional Affiliations

- a. Member, Association of International Education Administrators (AIEA).
- b. University Representative & Planning Committee Member, Commission on International Initiative (CII) of American Association of Public and Land-Grant Universities (APLU)
- c. Life Member, American Institute of Chemical Engineers (AIChE).
- d. Member, American Chemical Society (ACS).
- e. Professional Registration (P.Eng.) Association of Professional Engineers and Geoscientists of Alberta (APEGGA).
- f. Professional Registration (P.E.), Florida Engineering Society (FES)

Major Consulting Activities:

- i. Consultant on graduate degree programs in engineering, Alabama A&M University, Huntsville, Alabama, USA (2009 – 2011)
- ii. 2006 – 2011: Consultant to the African University of Science & Engineering, Abuja, Nigeria.

- iii. Consultant to Weyerhaeuser Corporation, Alabama operations on pulp and paper waste treatment (2005 – 2009)
- iv. 1989 – 1992: Kozak Mining Ltd., Edmonton, Alberta. Consultant on Environmental Impact of Mining and Mineral Separation Activities.
- v. 1994 – 1996: Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ) GmbH, Eschborn, Germany. Consultant on Sulfide Oxidation & Acid Mine Drainage prevention & Control in the mining and mineral industry in Ghana, West Africa.
- vi. 1991 – 1994: Abitibi-Price, Inc., Toronto, Ontario. Consultant on Supercritical Water Oxidation (SCWO) Technology Development for Pulp & Paper wastewater Treatment.
- vii. 1992: Inland Cement Ltd., Edmonton, Alberta. Consultant on “Reactive Plume Pollution Prevention”(1992)
- viii. 1990 – 1993: Shell Resources Ltd., Calgary, Alberta. Consultant on Dissolved & Colloidal Silica Removal from Produced Water.
- ix. 1989 – 1994: Amoco Petroleum Ltd., Calgary, Alberta. Consultant on Petroleum Associated Produced Water Treatment for Steam Generator Recycling.
- x. 1998 – 2004: Idaho National Engineering & Environmental Lab (INEEL), Idaho Falls, Idaho. Consultant on Environmental biotechnology.
- xi. 1999 – 2006: MacMillan Bloedel Inc. (now Weyerhaeuser), Pine Hill, Alabama. Consultant on Wastewater Treatment and Near Infra-red analysis for pulp mill processing.
- xii. 2005 – 2006: Tri-by Energy Systems, Inc., Consultant on Supercritical water Oxidation Technology for extraction of values from oil-shale resources (2005/2006)
- xiii. 2002 – 2007: Consultant Environmental Engineer, City of Hobson, Hobson, Alabama.
- xiv. 2008 – 2011: Consultant on Environmental Chair Program for College of Engineering and Technology, Alabama A&M University, Huntsville.

Graduate & Undergraduate Courses Taught:

Undergraduate Courses:

1. Fundamentals of Environmental Science & Engineering.
2. Industrial Pollution and Abatement Processes
3. Water and Wastewater Treatment Technologies.
4. Environmental Chemistry.
5. Chemical Thermodynamics and Kinetics
6. Environmental Engineering Process Design
7. Instrumental Analysis
8. Principles of Mineral Processing
9. Hydrometallurgy
10. Introduction to Materials Science and Engineering

Graduate Courses:

1. Advances in Materials Science & Engineering
2. Electrochemical Impedance Spectroscopy for Corrosion Studies
3. Advanced Solid Waste Management of Nuclear Wastes
4. Environmental biotechnology

5. Environmental Materials degradation
6. Advanced Environmental Chemistry
7. Energy and Environment

Undergraduate Students Mentorship, Graduate Students, and Postdoctoral Fellows Supervised:

B.S. degree students mentored	=	Over 250
M.S. degree students advised	=	62
PhD degree students advised	=	15 + 2 currently under supervision
Postdoctoral Fellows supervised	=	22

List of Publications:

A → Refereed Publications (Patents, Books, Journals, Published Abstracts, and Proceedings)

1. **United States PATENT Award:** *N.O. Egiebor and J. U. Otaigbe, “Desulfurization of Solid Carbonaceous Fuels by Co-agglomeration with Sulfur Sorbents, “U.S. Patent # 5,284,497 (1994).*

2. P.S. Fasinu, V.K. Manda, O.R. Dale, **N.O. Egiebor**, L.A. Walker , and S. Khan, “Evaluation of the Influence of Selected Herbal Extracts on the Activity of P-Glycoprotein and Pregnane X Receptor Activation”, *Abstracts of the Joint Meeting of 16th Annual International Conference on the Science of Botanicals (ICSB) with 5th Interim American Society of Pharmacognosy (ASP)*, Oxford, MS, April 11-14, 2016; Published in *Planta Med* (**2016**); 82 - PB13 (doi: 10.1055/s-0036-1578661).
3. P.S. Fasinu, V.K. Manda, **N.O. Egiebor**, L.A. Walker , and S. Khan, “The Influence of Selected Antimalarial Herbal products on CYP Activity”, *Abstracts of the Joint Meeting of 16th Annual International Conference on the Science of Botanicals (ICSB) with 5th Interim American Society of Pharmacognosy (ASP)*, Oxford, MS, April 11-14, 2016; Published in *Planta Med* (**2016**); 82 - PB14 (doi: 10.1055/s-0036-1578662).
4. V.O. Imieje, P.S. Fasinu, K.O. Ogbeide, **N.O. Egiebor**, and A. Falodun, “In Vitro Anti-Infective Screening of selected West African Medicinal Plants”, *Abstracts of the Joint Meeting of 16th Annual International Conference on the Science of Botanicals (ICSB) with 5th Interim American Society of Pharmacognosy (ASP)*, Oxford, MS, April 11-14, 2016; Published in *Planta Med* (**2016**); 82 – PC32 (doi: 10.1055/s-0036-1578734).

5. J. Mbah, S. Steward, and **N.O. Egiebor**, “Solid Membrane Electrode Assembly for on Board Detection of Peroxides Based Explosives”; *Sensors & Actuators: B. Chemical*; vol 222, p. 693–697, (doi:10.1016/j.snb.2015.08.116), Elsevier Publishers, (2016).
6. V. Mulabagal, D.A. Baah, **N.O. Egiebor**, and WY Chen, “Biochar from Biomass: A Strategy for Carbon Dioxide Sequestration, Soil Amendment, Power Generation, and CO₂ Utilization”; Book chapter, **In Press**, in *Handbook of Climate Change Mitigation and Adaptation*; W-Y Chen, T. Suzuki, and M. Lackner (Editors); Springer Publishers; Springer Publishers; NY, (2016), DOI 10.1007/978-1-4614-6431-0-80-1; ISBN: 978-1-4614-6431-0 (Online).
7. **N.O. Egiebor** and J. Mbah, “Simultaneous CO₂ and H₂S Sequestration by Electrolytic Conversion for Chemical Feedstock Synthesis”; Book chapter, **In Press**, in *Handbook of Climate Change Mitigation and Adaptation*; W-Y Chen, T. Suzuki, and M. Lackner (Editors); Springer Publishers; NY, (2016), DOI 10.1007/978-1-4614-6431-0-80-1; ISBN: 978-1-4614-6431-0 (Online)
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120. **N. O. Egiebor** and E. Antwi, "Produced Water Treatment by the Hydrogarnet Process" Final Project Report #4 of 4 to Alberta Oil Sands Technology & Research Authority, (AOSTRA) July/August 1993.
121. **N. O. Egiebor** and E. Antwi, "Produced Water Treatment by the Hydrogarnet Process" Progress Report #3 of 4 to Alberta Oil Sands Technology & Research Authority, January 1992.
122. **N. O. Egiebor** and L. Li, "Removal of Dissolved Organics from Industrial Wastewater by Supercritical Water Oxidation" Final Report to Alberta Environmental Research Trust (AERT), December, 1992.
123. **N. O. Egiebor**, E. Antwi, and B. Mohamedbhai, "Silica Removal from Produced Water By The Hydrogarnet Process" Final Report to AMOCO/SHELL, (July, 1992).
124. **N. O. Egiebor** and L. Li, "Supercritical Water Detoxification of Pulp Mill Effluents" Process Feasibility Report to ABITIBI-PRICE Inc., (June, 1992).
125. **N. O. Egiebor** and E. Antwi, "Produced Water Treatment By The Hydrogarnet Process" Progress Report #2 of 4, to AOSTRA on Contract #973, (July, 1992).
126. **N. O. Egiebor** and E. Antwi, "Produced Water Treatment by The Hydrogarnet Process" Progress Report #1 of 4 to AOSTRA on Contract #973,(January, 1992).
127. **N. O. Egiebor**, "Removal of Dissolved Organics from Industrial Wastewater by Peroxide/UV Oxidation," Research Report to Alberta Environmental Research Trust (AERT), December, 1991

128. **N. O. Egiebor** and e. Antwi, "Silica Removal From Produced Water by the Hydrogarnet Process" Research Progress Report #1 of 2 to AMOCO, (March, 1991)
129. **N. O. Egiebor**, "Prokote/Ammonium Nitrate Dust Flammability," Final Report to ESSO Petroleum Resources Ltd. Edmonton, Canada (May, 1990).
130. **N. O. Egiebor** and J. Park, "Gas Plant Runoff Wastewater Treatment by Carbon Adsorption and UV Oxidation," 1990 AOSTRA Research Project Report (October 1990).
131. **N. O. Egiebor**, J. U. Otaigbe "Petroleum Coke Utilization: Co-agglomeration with Sulfur Sorbents for Production of Smokeless Solid Fuels". Progress Report #1 of 2 to AOSTRA on Contract #791 (January 1990).
132. **N. O. Egiebor**, J. U. Otaigbe, "Petroleum Coke Utilization," Final Report to AOSTRA on Contract #791 (Sept. 1990).
133. M. R. Gray, **N. O. Egiebor** and K. Muelenbachs, "Combined Processing of Coal, Butumen & Natural Gas," Final Report to Alberta Office of Coal Research, (June, 1991).
134. M. R. Gray and **N. O. Egiebor**, "Liquefaction Coal with Natural Gas", Final Report to Alberta Office of Coal Research & Technology (AOCRT) - (August, 1988).

C. ➔ Invited Oral Presentations & Lectures

135. **N.O. Egiebor**, "Developing and Writing Winning Grant Proposals", Invited Keynote & Guest lecture given at the Annual University of Benin Research Day (UBARD), University of Benin, Benin City, October 20th & 21st, 2015.
136. **N.O. Egiebor**, K. Kalu, and A. Ayeni, "A Proposal to Transform the Nigerian Public University System: One Institution at a Time", A Presentation made to the Federal Govt. of Nigeria - Strategy Think Tank Committee, Abuja, Nigeria, June 20th, 2015.
137. **N.O. Egiebor**, "Fostering International Partnerships with African Institutions for Malaria Research", Invited Opening Lecture, 3rd UM Malaria Symposium, University of Mississippi, April 25, 2015.
138. A.H.M.G. Hyder, S.A. Begum and **N.O. Egiebor**, "Removal of Cr(VI) from Aqueous Solution Using *Bone-char* as a Low Cost Adsorbent". Presented at the The 2nd International Conference on Civil Engineering for Sustainable Development (ICCESD-2014), KUET, Khulna, Bangladesh, February 14-16, 2014.
139. A.H.M.G. Hyder, S.A. Begum and **N.O. Egiebor**, "Evaluation of Cr(VI) Removal Efficiency from Wastewater Using *Bio-char*". Presented at the 2nd International Conference on Civil Engineering for Sustainable Development (ICCESD-2014), KUET, Khulna, Bangladesh, February 14-16, 2014.

140. V. Kanagalasara and **N.O. Egiebor**, “Corrosion Behavior of Fe-Cr Alloys used in Nuclear reactor Structural Materials”, Paper presented at the Annual NNSA-MSI Technical Meeting, Howard University, Washington, DC, Nov. 13 – 14, 2013.
141. V. Kanagalasara and **N.O. Egiebor**, “EIS Evaluation of Corrosion Behavior of Ferrochromium (FeCr) Alloys”, Paper presented at the Annual International Corrosion Conference, CORCON-2013, New Delhi, India, September 30 – October 3, 2013.
142. V. Kanagalasara and **N.O. Egiebor**, “Electrochemical Impedance Spectroscopy (EIS) Study on the Corrosion Behavior of Ferrochromium (FeCr) Alloys”, Paper presented at the International Conference on Advancements and Futuristic Trends in Mechanical & Materials Engineering, Punjab Technical University, Kapurthala, Punjab, India, October 3 – 6, 2013.
143. S. Ibrahim, G. El afandi, and **N.O. Egiebor**, “Short-range Rainfall Prediction over West Africa and Case Study Flash Flood over Nigeria using WRF Model”, Paper presented at the Workshop on Next Generation Climate Data Products; National Center for Atmospheric Research (NCAR), Boulder, CO; July 15 – 19, 2013.
144. G. El Afandi, **N.O. Egiebor**, B. Oni, W. Khaled, D. Saleh, S. Ibrahim, and R. Hassan; “Current Atmospheric and Climate Related Research at Tuskegee University”, Workshop paper presented at the National Space Research and Development Agency (NASRDA), Abuja, Nigeria; April 9 – 13, 2013.
145. **N.O. Egiebor**, “Consortium Research & Education Activities at Tuskegee University, Paper presented at the Annual Technical Review Meeting of DOE/NNSA MSI Program, Howard University, Washington, DC, Dec 3 – 4, 2012
146. S.A. Begum, N. Vahdat, and **N.O. Egiebor**, “Generation and Characterization of Nano-sized Bone Char & Its Application for Water Treatment”, Paper presented at the Scientific Days Conference of the International Institute for Water & Environmental Engineering, Ouagadougou, Burkina Faso; June 10 – 12, 2012
147. **N.O. Egiebor**, “The Environment and Africa’s Development: The Climate Change Challenge”; Invited paper presented at the Distinguished Lecture Series Workshop of the African University of Science & Technology, Auja, Nigeria, Dec. 2, **2011**.
148. Y. Maiga, S. Begum, R. Shange, R. Ankumah and **N.O. Egiebor**, “Biodegradation of Cyanide Compunds in Aqueous Solution by *Pseudomonas* Strains”, Paper Presented at the NOBCChE Southast/Southwest Regional Meeting, Auburn University, Auburn, AL, Nov. 11 – 12, 2011.
149. E. Antoinette, J.F. Wilson. P.C. Sharma, **N.O. Egiebor** and S.S. Srinivasan, “Physico-Chemical Characteristics of Soil and Liquid Samples Collected from Gulf of Mexico and Deep-Horizon Oil Spill Site”, Paper Presented at the NOBCChE Southast/Southwest Regional Meeting, Auburn University, Auburn, AL, Nov. 11 – 12, 2011.

150. **N.O. Egiebor** “International Partnerships for the UNESCO-GEIFON Chair in Environmental Sciences”, Presented at the Workshop on Curriculum Development, Fund Raising, and Strategic Planning for the UNESCO-GEIFON Chair at the University of Benin, Benin City, Nigeria, January 27-28, 2011
151. **N.O. Egiebor**, “Climate Change and Environmental Issues Arising from Coal & Mineral Mining Activities in the United States”, Paper presented at the U.S. Dept. of Energy Technical Review Meeting, Norfolk, VA, Nov. 9-10, 2010.
152. **N.O. Egiebor**, “African Water Quality & Resources Crisis: The Role of Science & Technology”, Presented at the 2009 Wesley L. Harris Scientific Society Symposium, Princeton University, Princeton, NJ, Dec. 4-5, (2009)
153. **N.O. Egiebor**, “Water Chemistry and Bioremediation of Hydrazine Contaminated NASA Wastewater”, Paper presented at the Scientific Days Conference at the International Institute for Water & Environmental Engineering, Ouagadougou, Burkina Faso, March 9 – 14, (2009).
154. **N.O. Egiebor**, “The Need for Mining Environment Training & Research at the International Institute for Water and Environmental Engineering (2iE) in Ouagadougou, Burkina Faso; Paper Presented at the Joint Curriculum Development Seminar held at 2iE, Ouagadougou, Burkina Faso, October 26-28, (2008).
155. **N.O. Egiebor**, “Corrosion Studies of Structural Carbon & Stainless Steels by Electrochemical Impedance Spectroscopy (EIS)”, Paper presented at the US Dept. of Energy-Massie Chair Meeting at Lawrence Livermore National Lab, Livermore, CA March 19, (2008).
156. **N.O. Egiebor**, Kafui Nyavor and Ben Oni, “The Role of Microorganisms during Acid Mine Drainage Formation” Paper presented at the 4th African Materials Research Society Conference, Dar Es Salaam, Tanzania, Dec. 10 – 14, (2007).
157. **N.O. Egiebor**, “Corrosion and Degradation of Structural Materials for Nuclear Reactor Service” Paper presented at the U.S. DOE-NNSA Research Workshop, Orangeburg, South Carolina, Nov. 18 – 20, (2006).
158. **N.O. Egiebor**, “Research and Undergraduate Student Analytical Skills Development in 21st Century Engineering Education” paper presentation to Florida Water Environment Association at Colonial Country Club, Fort Myers, FL, March 9, 2006.
159. **M.A. Idachaba, N.O. Egiebor**, and P. Dominico, “Improving Microbial Stability of Solidified Cement Waste Forms”, *Paper presented at the International Conference on Energy, Environment, and Disasters – INCEED 2005*, Charlotte, NC, July 24 – 30, (2005).

160. **N.O. Egiebor**, “Development of New 21st Century Engineering Degree Programs at Florida Gulf Coast University (FGCU)”, paper presented to the Institute of Transportation Engineers, Calusa Chapter, Fort Myers, Florida, August 25, 2005.
161. **N.O. Egiebor**, “Environmental Engineering at FGCU”, paper presented to the Greater Naples Leadership Education day on Engineering at FGCU, Naples, Florida, Dec. 7, 2005
162. A.U. Nwankwoala, **N.O. Egiebor**, C. Gilbert & K. Nyavor, “Microbial Degradation of MethylHydrazine Contaminated NASA Wastewater” Paper Presented at American Chemical Society -Division of Environ. Chemistry, 217th ACS National Meeting, Anaheim, CA, March 21-25, (1999).
163. **N.O. Egiebor**, “Microbial Stability of Solidification Wasteforms for Disposal of Radioactive & Mixed Low Level Wastes”. Presented at the Annual Review Meeting of the University Research Consortium of the Idaho National Engineering & Environmental Laboratory (INEEL), Idaho Falls, Idaho, July 27-29, 1998.
164. **N.O. Egiebor**, “Biodegradation Research for Remediation of Hydrocarbon Fuels Contaminated soils” Paper Presented at the DOE/Massie Chair Symposium at Boeing, St. Louis, MO, January 27 & 28, 1998.
165. K. Nyavor and **N. O. Egiebor**, “Suppression of Pyrite Oxidation by Fatty Acid Amine Treatment”, Paper Presented at the Symposium on Extraction & Processing for the Treatment and Minimization of Wastes, TMS Annual Meeting, San Francisco, (Feb. 1994).
166. **N. O. Egiebor** and E. Antwi,” “Produced Water Treatment by the Hydrogarnet Process” Presented at the 17th. Annual AOSTRA/University/Industry Technical Review Meeting & Seminar, Calgary, Alberta, (March 3-5 1993).
167. E. Antwi and **N. O. Egiebor**, “Kinetics of Produced Water Desiliconization with Tricalcium Hydroaluminate” Presented at the 2nd. Int. Conf. On Environmental Issues of Waste in Energy & Mineral Production, Calgary, Canada, Sept. 2-4 1992.
168. K. Nyavor and **N. O. Egiebor**, “Arsenic and Sulfur Emission Control in the Pretreatment of a Secondary Refractor Gold Concentrate by Lime Agglomeration Roast,” Paper presented at the Int. Symposium on Waste Processing & Recycling, 31st. Annual CIM Conf. of Metallurgist, Edmonton, Aug. 23-27. 1992.
169. Z. A. Zhou and **N. O. Egiebor**, “Prediction of Axial Gas Holdup Profiles in Flotation Columns,” Poster Paper Presented at the 31st. Annual CIM Conf. of Metallurgist, Edmonton, Aug. 23-27, 1992
170. E. Antwi and **N. O. Egiebor**, “A Study of the Hydrogarnet Process for Silical Removal from Produced Water,” Paper Presented at the AMOCO Canada Seminar, Calgary, (July 9, 1991)

171. K. Nyavor and **N. O. Egiebor** "Extraction of Gold From a Double Refractory Concentrate," Invited Paper Presented at the 41st Annual Canadian Chem. Eng. Conf. Vancouver, B. C., Oct. 6-9, 1991
172. Z. A. Zhou, **N. O. Egiebor**, and L. R. Plitt, "Effect of Frothers on Bubble Rise Velocity in a flotation Column-I. Single Bubble system," Invited Paper Presented at the Intl. Conf. on Column Flotation, Column '91, Sudbury, Ontario, June 2-6, 1991
173. **N. O. Egiebor** and M. R. Gray, "Liquefaction of Coal With Natural Gas", Invited Paper Presented at the 1990 Fundamental Coal Science Workshop and Panel Discussion, Calgary, Feb. 20, 1990.
174. **N. O. Egiebor**, "Chemical Property-Reactivity Relationship of Coal During Supercritical Fluid Extraction", Invited Paper presented at the Coal Conversion Workshop, Ankara University, Ankara, Turkey, June 12, 1990.
175. **N. O. Egiebor** and M. Shishido, "Supercritical Fluid Extraction of Western Canadian Coals," Invited Paper Presented at the Canada-Japan Joint Research Symposium on Coal, Vancouver, Sept. 23-25m 1990.
176. **N. O. Egiebor** and N. Cyr, "Studies on Chemical Structure-Reactivity Relationship of Coal during Liquefaction," Presented at the CIC 40th Chemical engineering Conference, Halifax, July 15-20, 1990.
177. N. Cyr, **N. O. Egiebor** and M. L. Selucky, "Carbon-13 CP/MAS Detection of Aromatic Structural Changes Occurring During Coal Liquefaction," Presented at the 36th Canadian Spectroscopy Conference, St. Catherine, Ontario, Aug. 1-3, 1990.
178. **N. O. Egiebor** and M. R. Gray, "Evidence for Methane Activation in Coal Liquefaction," Invited Paper Presented at the Nova-Husky Research Center, Calgary, March 22, 1989.
179. J. U. Otaigbe and **N. O. Egiebor**, "Coagglomeration of Syncrude Coke with Sulfur Sorbents," Poster Paper Presented at the 14th Annual AO STRA/University/Industry Tech. Seminar, Banff, Alberta, Oct. 22-24, 1989.
180. N. Cyr and **N. O. Egiebor**, "Characterization of Coal Liquefaction Residues by Solid State C-NMR," Paper Presented at the Chemical Congress of Pacific Basin Societies, Honolulu, Dec. 17-22, 1989.
181. **N. O. Egiebor**, W. C. Cooper and B. W. Wojciechowski, "An Experimental Investigation of the Break in ASF Distributions of Fischer-Tropsch Synthesis Products," Invited Paper Presented at the 68th Canadian Chemical Conference, Kingston, Ontario, Canada, (June 2-5, 1985).