

Adetola A. Salau, Ph.D. dr.adetolasalau@gmail.com | tola@carisma4u.com | +2348075438407 | +1(631) 865-0988

Summary

A highly motivated and results-driven educational consultant with 24 years of experience in curriculum development, technology integration, teacher training, and strategic planning. Proven expertise in STEM education, personalized learning, and the Next Generation Science Standards (NGSS). Seeking a challenging remote consulting position where I can leverage my skills and experience to drive positive change in education.

Skills

Curriculum Development: Curriculum Alignment, Curriculum Evaluation, Curriculum Mapping, Curriculum Design, STEM Curriculum Development, Project-Based Learning (PBL), Personalized Learning, Universal Design for Learning (UDL)

Educational Technology: Technology Integration, Educational Software, Learning Management Systems (LMS), Online Collaboration Tools, Virtual Classroom Platforms

Teacher Training and Professional Development: Workshop Facilitation, Instructional Coaching, Mentoring, Teacher Evaluation, Online Training Development

Strategic Planning: Needs Assessment, Goal Setting, Action Planning, Program Evaluation, Change Management

STEM Education: Science and Math Instruction, PBL, NGSS, Inquiry-Based Learning, STEM Integration

Other Skills: Communication, Collaboration, Leadership, Problem-Solving, Time Management, Project Management

Education and Credentials

- Doctor of Philosophy in Curriculum, Instruction, and the Science of Learning | University at Buffalo, State University of New York (2023)
- Master of Science in Chemical Engineering (2004) | Syracuse University
- Master of Science in Engineering Management (2001) | Syracuse University
- Bachelor of Science in Chemistry (Hons) (1998) | Fordham University

Professional Experience

Special Adviser to the Executive Governor of Kwara State on Education, Policy Formulation, and Human Capital Development | Kwara State, Nigeria | November 2023 - Present

- Led the development and implementation of several innovative educational initiatives, including STEAMUP Kwara, Skill Up Kwara, and the WAEC Improvement Program.
- Oversaw the review and revamp of the Kwara State School curriculum, ensuring alignment with current educational standards and best practices.
- Developed partnerships with funding agencies and organizations to support educational initiatives in Kwara State.
- Served as Focal Lead on the AGILE Project, collaborating with the Federal Ministry of Education and the World Bank to implement educational development strategies.

Senior Special Assistant (Education) to the Governor | Lagos State, Nigeria | January 2020 to May 2023

- Partnered with stakeholders to integrate STEM education into schools and advocate for its importance.
- Mobilized and oversaw teams in delivering STEM professional development to teachers.
- Designed and implemented training programs for school practitioners on STEM practices within a multi-tiered framework.
- Conducted functional assessments of STEM programs to ensure effectiveness and alignment with educational goals.

Founder and Executive Director | Carisma4U Educational Foundation, Lagos, Nigeria | April 2016 to June 2020

- Founded and led a non-profit organization focused on providing STEM education and professional development opportunities to students and teachers.
- Developed and implemented STEM programs that resulted in increased student engagement and improved learning outcomes.
- Established partnerships with other educators and consultants to expand the reach and impact of STEM initiatives.
- Secured funding and resources to support the organization's programs and operations.

Curriculum Planning and Development Head | King Amachree African University, Benin Republic | August 2015 to March 2016

- Planned and supervised the development and implementation of university-level curricula.
- Provided centralized instructional services and support to faculty and students.
- Directed the evaluation of curriculum effectiveness and implemented revisions based on data analysis.
- Planned and implemented staff development programs to enhance teaching and learning.

Health and Safety Engineering Manager EPF OPL 275 | FODE, Lagos, Nigeria. |September 2011 to February 2015

- Coordination of weekly and monthly HSE work in progress reports.
- Development of HSE plans/procedures for project coordination of HSE management audits. Coordination of HSE monthly meeting preparation of the yearly schedule for HSE meeting and training programs.
- Closing out of action points arising from near misses, Hazard Identification Report, HSE meetings, and accidents reported.

Compliance Regulator Nigeria LNG| Lagos, Nigeria |October 2010 to August 2011

- Spearheaded comprehensive audits of internal policies and procedures;

- Developed new processes across key divisions and departments
- Led the implementation of new controls or methodologies.
- Improved quality of services through effective follow-up, analyzed internal practices
- Identified areas of opportunity, presented solutions, and generated key recommendations.

**Principal Training Officer| Good Shepherd Program Services. Bronx, New York
|August 2009 to August 2010**

- Direct liaison with external training institutions, governmental agencies, and stakeholders on the training programs.
- Created training data collection methods and performed analysis of practices.
- Oversaw data and report collation of training activities within all departments.
- Initiated personnel and cost benefit analysis on training programs.
- Analyzed existing training programs and facilitated innovative sessions.

**Adjunct Lecturer| ITT Engineering Technical College, Charlotte, North Carolina
|Aug 2008 to July 2009**

- Created algebra- and physics-integrated curricula for technical students.
- Educated students on statistics and its relevancy to quality and process control.
- Formulated instructional plans on environmental issues including green technology, sustainability, and environmental management systems.
- Integrated hands-on learning experiences, including project management, planning, diagram development, and an introduction to legal aspects of engineering.
- Oversaw a design project and monitored student progression.
- Supervised students in the invention of a mechanical device and facilitated the activities, from inception, through planning and completion.

**Operations Manager Silvernail Architectural Firm |Concord, North Carolina
September 2008 to July 2009**

- Supervised, coached, and assessed a team of 17 employees
- Facilitated effective staff training programs.
- Planned and coordinated workflow and delegated assignments.
- Led the day-to-day operations of cross-functional units, including construction, marketing, business development, strategic planning, finance, and resource administration.
- Directed project operations, initiated market research, and devised formulation strategies to accelerate growth.
- Devised media programs and developed cost efficient advertising, marketing, and promotional campaigns to generate interest and maximize brand identity

Director of Technology Training and Product Development| All Pro Wiring, Charlotte, North Carolina |September 2006 to September 2008

- Evaluated system requirements, implemented new practices and methods, and synthesized small-scale processes.
- Prepared and produced reports, flow diagrams, and charts of process system requirements. improve productivity.
- Assessed environmental impacts of designed processes.

Master Mathematics Teacher Fort Mill Academy| Fort Mill, South Carolina |June 2004 to June 2006

- Restructured algebraic curriculum for high school students to ensure successful performance on the state examinations.
- Formulated custom lesson plans and worked in one-on-one and group settings to maximize the knowledge of students.
- Served as a subject matter expert in the integration of technology throughout school curriculum. Improved student achievement rates and bridged the lag time for chronically absent or tardy students.
- Developed all simulations and cooperative learning exercises within the instructional environment.
- Designed new smart board lesson plans and PowerPoint presentations to engage visual learning in the classrooms.

**Chemistry Lecturer| Fordham University, New York, New York
Sept 2002 to June 2004**

- Provided an interactive laboratory practical experience for students.
- Integrated curriculum with real- world applications and created an environment of learning, exploring, and instruction.
- Maintained a comprehensive understanding of concepts, theories, and experimental techniques and applied practices within the lecture setting.
- Created syllabus and detailed course information and materials for each course, including laboratory and clinical settings.
- Worked closely with students to identify individual requirements and delivered support.

**Mathematics Teacher| High School for Medical Sciences, Bronx, New York
Aug 2001 to June 2002**

- Formulated curriculum for mathematics regents exam students in Grades 9 and 10.
- Provided tutorial services to enhance the knowledge and academic skill of students, identified and addressed strengths or weaknesses, and implemented individualized lesson plans.
- Conducted skill analysis of student performance and created curriculum for student

requirements. Developed thematic unit lesson plans and supported the ESL needs.

- Utilized AutoCAD software to manage the dream-house project.
- Constructed material and designed all drafts.

Key Projects and Accomplishments

- ***Dream House Project:*** Developed and implemented a multidisciplinary project-based learning experience for students, integrating math, science, social studies, and art. Students applied math skills to estimate budgets, calculate area and perimeter, and manage finances. They also learned about the impact of terrain and regional differences on building design, connecting scientific and social studies concepts.
- ***NGSS Integration:*** Successfully integrated Next Generation Science Standards (NGSS) into STEM curriculum and teaching practices. Examples include:
 - 3-5 ETS1 Engineering Design: Challenged students to design a structure within a given budget, promoting optimization and problem-solving skills.
 - 4-ESS3 Earth and Human Activity: Guided students to investigate the impact of land use on natural resources, fostering data analysis and evidence-based argumentation.
 - MS-ESS3 Earth and Human Activity: Engaged students in exploring urban planning and sustainable structures, encouraging design thinking and communication skills.
- ***Personalized Learning Programs:*** Designed and implemented personalized learning programs for students, utilizing technology and differentiated instruction to meet diverse learning needs.

Member

- International Institute of Business Analysis
- American Society of Safety Engineers
- Society of Women Engineers
- American Chemical Society
- American Educational Research Association
- STEM Education for Sustainable Development (STEM4SD) global focus group- part of the Smithsonian Science Education Center.

Certificate

- HP Cambridge Partnership for Education EdTech Fellowship, started July 2023 (Cambridge University)
- New Ventures Leadership Massachusetts Institute of Technology (MIT) Innovation and Entrepreneurship program (2018) – Brisbane, Australia
- STEM Certification (Blockchain credential) in STEM Training, 2018 – STEM.org

- Permanent Math Secondary Educator License – New York State
- Statement of Accomplishment – Earned Income Accelerator for Non-Profits – +Acumen
- Moving Worlds Institute Fellow

Conference Presentations

Salau A. *Revamping Agricultural science in urban Africa*. National Science Teacher Association Conference, Denver, 2024

Salau A. *The integration of Arts in STEM Education: Creating Innovative Solutions for Future Africa*” Partnerships in STE(A)M Innovation and Future Africa symposium 2022. Harvard University Center for African Studies.

Salau A. *The Nature and State of Practical Work in Science at KT Public Secondary Schools: An Exploratory Case Study*. Graduate Student Conference, 2022, University of Illinois at Urbana-Champaign

Salau, A. *The Nature and State of Practical Work in Science at Lagos State Public Secondary Schools: An Exploratory Case Study*. University at Buffalo, State University of New York Graduate School of Education Student Research Symposium, 2022.

Community-based outreach and pre-college initiatives

Chair: Adetola A Salau. IEEE Integrated STEM Education Conference, 2019, Princeton University, New Jersey, United States

Salau, A. A. *Transforming learning through relevant STEM education for Nigerian students*. IEEE Integrated STEM Education Conference, 2019, Princeton University, New Jersey, United States

Salau, A. A. *Transforming learning for African students through relevant STEM education*. ISN National Conference on Educational Innovation, 2019, Wisconsin, United States

Pursue your passion: Building a meaningful career that makes a difference

Panelist: Adetola A. Salau. Global Women in STEM Leadership Summit, 2019, Atlanta, Georgia, United States

Salau, A. A. *How to prepare African students for jobs with artificial intelligence*. GESS Leaders in Education Summit, 2019, Lagos, Nigeria

From the pepper farm to the megacity (and beyond)

Panelist: Adetola A. Salau. An Interdisciplinary Conference on Space, Society, and the Imagination of an African Crossroads Conference. H-Africa: CFP: Lagos, 2017. Organizers: Barnard College, Columbia University, Western Carolina University, University of California-Riverside, and University of Lagos.

Facilitator/Consultant. Ministry of Education’s policy stakeholders workshop on skills gap in the educational system and development of training of teachers and laboratory technicians.

Salau A.A. Ministry of Education, Abuja, Nigeria (2017); *“The importance of creating a rigorous STEM curriculum with backup resources throughout Nigeria.”*

Author:

- Re-engineering minds for Innovative Thinking
- Future Readiness in Education

- Project Based Learning-An Overview
- STEM activities for Primary and Junior Secondary Schools
- Kindergarten and Elementary STEM activities book 1
- Kindergarten and Elementary STEM guidebook
- Upper Elementary and Lower Secondary STEM Workbook 2, 3, and 4
- Kindergarten and Lower Elementary STEM Workbook 2 and 3
- STEM IS KEY- A Resource book for understanding and deploying STEM Education
- STEM Teaching Guide for Kindergarten
- Project Based Learning (PBL) Activities Book
- STEM Activities in Algebra Geometry, & Personal Finance

Publications/Online News Journals (Opinion Columns in)-:

- Pan-Atlantic Journal
- Premium News
- Sabi-News.com
- The National Daily

Scholarships and Awards

- LAI Research Excellence Award --- Learning and Instruction Department, Graduate School of Education, University at Buffalo, State University of New York. May 2023
- GSE Dean's Scholarship for Educational Diversity and Excellence, 2019 -2020 University at Buffalo, State University of New York.
- Appreciation Award Lagos East Baptist Conference. May 2023
- Award of Excellence - Lagos State University Students' Union Lagos State University, College of Medicine, 2023.
- Best Advocates for Innovation In Education (Female) - Association of Nigeria Software Testers, 2022.
- Achievement/ Peace Ambassador Award - 1000 peace Ambassadors of Nigeria, 2022.
- Includer Award - Nigerian Society of Engineers, 2022.

- Appreciation Award - Association of Professional Women Engineers of Nigeria, 2022.
- Appreciation Award - UCMAS, 2022.
- Outstanding Individual Achievements & Exemplary Contributions towards Education in Africa - International Internship University, 2022.
- Award of recognition - Gender Ambassadors CDS (NYSC), 2022.
- Award of Recognition for Effort and Support towards development and Improvement of Nigerian Children - Kidspreneur, 2022.
- Best Advocates for Innovation In Education (Female) - Association of Nigeria Software Testers, 2021.
- Award of Excellence - Voice of Reason, 2020.
- Outstanding Leadership Award - UniCaribbean Business School, 2020.
- Award of Excellence – Teachers are the Future Conference, 2019
- Award Edutech Reformer – Africa Edutech Conference, 2019
- Award Social Media Exemplary Contribution to Society, 2019
- Appreciation Award – School Leaders Association, 2018
- Appreciation Award – Learning as I Teach, 2018

- Appreciation Award – ICTEL Expo, 2018
- Ambassador of STEM Award, International Youth Summit, 2017 - "Science & Technology for Youth in Africa"
- African Quality Award – in recognition of achievement and immense contribution to Human Capital Development – International Summit of Leaders, April 2017
- Best Manager Award – for outstanding professionals who have been managers of innovative enterprises
- Hive Africa Global Leaders Program, 2017
- Appreciation Award – Africa Code Week 2017- for inspiring kids at Africa Code Week, 2017
- Education Collaboration of the Year, 2017 – Education Redefining Team (Adetola Salau) in recognition of teamwork and great achievement in education