CURRICULUM VITAE: ING. PROF. EMMANUEL AMANKWAH (PhD)

PERSONAL DATA

Name:	Emmanuel **AMANKWAH** (MGSAE, PE-GhIE, GradGhISEP, GPC)
Nationality:	Ghanaian
Marital Status	Married
Phone number:	+233 (0) 556249236 / (0)209901439
Google Scholar Index	https://scholar.google.com/citations?hl=en&user=GC-xPIcAAAAJ
ORCID	https://orcid.org/0000-0001-6231-1419
E-mail address:	emmanuel.amankwah@uenr.edu.gh / amankwah60@gmail.com
Postal Address:	University of Energy and Natural Resources (UENR), Department of Environmental Management, P.O. Box 214, Sunyani, Ghana.

PERSONAL PROFILE

Ing. Prof. Dr. Emmanuel Amankwah started his academic career in 2005 at the Department of Agricultural Engineering, Wa Polytechnic (now Wa Technical University) as a Lecturer. At Wa Technical University, Prof. Amankwah served in various capacities including Departmental Examination Officer, Polytechnic Examination Officer, Industrial Liaison Officer, Head of Department, Vice Dean of Students' Affairs, and Ag. Dean of School of Engineering among others. He also served twice on the Governing Council of the then Polytechnic. In 2018, Prof. Amankwah joined the University of Energy and Natural Resources (UENR), Department of Agricultural and Bioresources Engineering. At the Department, he served as project coordinator, Academic counselor, HoD for two consecutive terms and other many statutory and non-statutory boards and committees. In 2023, Prof. Amankwah was transferred to the Department of Environmental Management, School of Natural Resources. At the School, he served as chairman of the quality assurance and accreditation committee. Besides, he has also served as internal and external assessor for a wide range of post graduate theses. As a panel member of Ghana Institution of Engineering (GhIE) examinations since 2022, an assessor of accreditation programmes for Ghana Tertiary Education Commission (GTEC), Moderator of examination questions and have consulted for Urban Wastes, GIZ and CTVET for curriculum development, etc. Again, Prof. Amankwah has worked with other colleagues to develop proposals and execute funded projects such as TALIF, CIDA, CIM, BMBF, and EC Horizon 2020 both nationally and internationally. His research interest is in the areas of waste management, soil and water conservation, irrigation, environmental and resources management, agriculture and climate change. He holds a PhD in Environmental Science, MPhil in Environmental and Resources Management (BTU, Germany) and BSc. in Agricultural Engineering (KNUST). He also holds MA in Guidance and Counselling. He is a Licensed Professional Counsellor with special interest in marriage, parenting and educational counselling. Ing. Prof. Amankwah has several publications in reputable journals to his credit.

ACADEMIC QUALIFICATION

Year	Degree	Institution
2019-2021	MA in Guidance and Counselling	University of Cape Coast
2012-2015	PhD in Environmental Sciences	Brandenburg University of Technology (BTU), Cottbus, Germany
2002-2004	MSc. in Environmental and Resources Management	Brandenburg University of Technology (BTU), Cottbus, Germany
1997-2001	BSc. Agricultural Engineering	Kwame Nkrumah University of Technology

Other Professional Qualification

Year	Degree	Institution
2014-2015	Certificate in Foundational Psychology	RMIT University, Australia
2013-2014	Master Certificate in Business Management	Master Class Management and Leadership Training, Burlington - USA
2005-2008	Certificates in CBT Programmes	NUFFIC-NPT (Dutch organization for Internationalization in education), NL

ACADEMIC RANKS HELD

Dates	Position	Institution
Aug. 2026 – Date	HoD, Department of Fire, Safety and Disaster Management, UENR	
2023 – 2026	Chairman**,** School Quality Assurance and Accreditation Committee	
2021 – 2023	HoD, Department of Mechanical & Manufacturing Engineering, UENR	
2019 – 2021	HoD, Department of Mechanical & Manufacturing Engineering, UENR (Programmes: Mechanical Engineering and Agricultural Engineering)	
2018 – 2020	Project Coordinator, Dept. of Mech. & Mfg. Eng., UENR.	
2017- 2018	HoD, Dept. of Agricultural Engineering, Wa Technical University, Wa.	
2016 – 2018	Member, Governing Council of Wa Technical University	
2012 - 2013	Ag. Dean of School of Engineering, Wa Technical University, Wa	
2011 – 2012	Member, Governing Council of Wa Technical University	
2010 – 2012	Vice Chairman – TUTAG, Wa Technical University, Wa.	
2008 – 2010	HoD, Industrial Liaison Office, Wa Technical University, Wa.	
2008 - 2010	Ag. Vice Dean of Students' Affairs, Wa Technical University, Wa.	
2007 - 2008	University Examinations Officer, Wa Technical University, Wa	
2006 – 2008	Departmental Examination Officer, Wa Technical University, Wa	

LIST OF RESEARCH AND PUBLICATIONS

I have research papers published in reputable journals. Among them are:

1. Sarkodie, W. O., Awuah, S.W., Edjah, A. **Amankwah, E.** and Takase, M. (2026). Green waste-to-biogas in Ghana's urban markets: A comprehensive review of energy potential, opportunities, challenges, and policy frameworks. Next Energy 13 (2026) 100916. https://doi.org/10.1016/j.nxener.2026.100916.

2. Nunoo, E. K., Twum, E., Panin, A., **Amankwah, E.** and Kwabena, P. (2026). Societal impact of behavioural risk to environmental hazards in HEI. *Societal Impacts* 7 (2026) 100186 . https://doi.org/10.1016/j.socimp.2026.100186

3. Nunoo, E. K., Lockner, E., Afrifa, E. A., Essandoh-Yeddu, J., Twum, E. Essien, B., Nyametso, J. Oteng, C., Asafo, J., **Amankwah, E**. and Kwabena, P. (2026). Safety preparedness in the oil and gas industry: A psychological assessment of factors affecting employee intentions and behaviours toward emergency response. *Progress in Disaster Science* 29 (2026) 100534. https://doi.org/10.1016/j.pdisas.2026.100534

4. **Amankwah, E**., Afedor, D. and Mensah, J. N., Nunoo, E. (2025). Application of slow sand filter for greywater treatment at GETFund hostel, UENR, Sunyani. *Scientific African*, 30 (2025) e03088. https://doi.org/10.1016/j.sciaf.2025.e03088

5. Atubiga, J. A., **Amankwah, E**. and Nsiah N.K. (2025). The impact of climate change on water conservation for dry season irrigation farming in Ghana's Sudan agro ecological zone of the Upper East Region, *Discover Sustainability* (2025) 6:1314. https://doi.org/10.1007/s43621-025-01854-x

6. Sarkodie, O. W., Felicia, T., **Amankwah, E**. and Takase, M. (2025). A review on the potential of oil from fish waste as a source for biodiesel production in Ghana. Next Research, 2 (2025) 100427.. https://doi.org/10.1016/j .nexres.2025.100427

7. Atubiga, J. A., **Amankwah, E.** and Nsiah N.K. (2025). Climate Change Adaptation in the Upper East Region of Ghana: Assessing Government Policies in Water Conservation and Dry Season Irrigation Farming, *Climate Resilience and Sustainability*, 2025; 4:e70023. https://doi.org/10.1002/cli2.70023

8. Sarkodie, O. W., Kissi, K. S., Takase, M. and **Amankwah, E.** (2025). Commercialization ofAlgae-Based Biofuels: The Case of Ghana. *International Journal of Chemical Engineering,* 2025, 5704048, https://doi.org/10.1155/ijce/5704048.

9. Kissi, K. S., Sarkodie, O. W., Takase, M., **Amankwah E.** (2025). Biofuel in Ghana: Potentials and strategies for policy implementation. *Fuel Communications*, 22 (2025) 100134. doi.org/10.1016/j.heliyon. 2024.e38734.

10. Daniel Afedor, D., **Amankwah**, **E**. and Takase, M. (2024). Application of DPSIR model to ascertain driving forces and their impacts on the Volta basin, *Heliyon*, 10 (19), e38734, https://doi.org/10.1016/j.heliyon.2024.e38734.

11. Awaafo, A., Awafo, A.E., Mahdavi, M., Akolgo, G., Jurado, F., Vera, D., **Amankwah, E.** (2024). Crops production and the contribution of agricultural biomass power generation to Africa's clean energy transition: Analysis of trends from 1990 to 2021, *Biomass and Bioenergy,* Volume 186, 107244, doi.org/10.1016/j.biombioe. 2024.107244.

12. Awaafo, A.; Awafo, E. A.; Mahdavi, M.; Vera, D.; Akolgo, G. A.; **Amankwah, E.,** Jurado, F. (2024). Effects of Crop Residues for Animal Consumption and Soil Enhancement on the Electricity Generation Potential of Residues: A Case Study of Sawla-Tuna-Kalba District, Ghana. Int J Agric & Biol Eng 2024, 17, 276-287. DOI: 10.25165/j.ijabe.20241704.8693

13. Abigail Nana Ama Baidoo, Jones Abrefa Danquah, Edward Kweku Nunoo, Simon Mariwah, Georgina Nyarko Boampong, Eric Twum, **Emmanuel Amankwah** & Johnie Kodjoe Nyametso (2024). Households' energy

conservation and efficiency awareness practices in the Cape Coast Metropolis of Ghana. *Discover Sustainability* (2024) 5:2 | https://doi.org/10.1007/s43621-023-00154-6

14. Edward A. Awafo, Ernest Christlieb Amrago, **Emmanuel Amankwah** & Gilbert Ayine Akolgo (2024). Planting for food and jobs participation and its impact on maize productivity in Ghana: implications for research and policy, *Cogent Social Sciences*, 10:1, 2328883, https://doi.org 10.1080/23311886.2024.2328883

15. Emmanuel Amankwah, Edward A. Awafo, Edward K. Nunoo and Aziz Abu (2023). Planting for food and jobs in post-COVID era: identifying the missing gaps for sustainable food production. GhIE, 23:4, 26 – 34. https//doi.org/10.56049/jghie.v23i4.108

16. Amankwah et al. (2023). Assessment of irrigation water quality for vegetable production in the Bono and Bono East regions. Ghana Institution of Engineering (GhIE), 23:3, 18 – 23. https//doi.org/10.56049/jghie.v23i3.51

17. Ndiaye, N. K., Derkyi, N.S.A. & **Amankwah, E.** (2023). Pyrolysis of plastic waste into diesel engine-grade oil, *Scientific African, 21,* e01836. https://doi.org/10.1016/j.sciaf.2023.e01836

18. **E. Amankwah,** N. J. Mensah, G. E. Sebiawu, S. Antwi-Akomeah, N. S. A. Derkyi & F. A. Amarh (2023) Assessment of water quality in boreholes from Tagrayire (Magazine) in Wa Municipality, *International Journal of Environmental Studies*, 80:4, 917-932, DOI: 10.1080/00207233.2023.2201042

19. Awafo, E.A., **Amankwah, E.** & Agbalekpor, I. (2023). Assessing solid waste management practices in the Techiman municipality of Ghana and the potential of recycling for revenue mobilization and reduction of waste menace, *Cogent Social Sciences,* 9:1, DOI: 10.1080/23311886.2023.2182867

20. Ouattara N.S. C., **Amankwah, E.** Edward A. Awafo, E.A. & Sodre, S. (2023). Valorization of faecal sludge and organic waste in Bobo-Dioulasso, Burkina Faso to improve sanitation, enhance soil and improve agricultural productivity. *Energy Reports,* 9, 4951-4959. https://doi.org/10.1016/j.egyr.2023.04.024.

21. Emmanuel Atule Aberikae, Emmanuel Kwesi Nyantakyi, DavidOkoh Kpeglo, Maruf Abubakar, Gustav Gbeddy, Nana Osei Bonsu Ackersona, Saeed Ibn Idris Kofi Yeboaha, Martin Kyereh Domfeha, Thomas Atta-Darkwa, **Emmanuel Amankwah** and Michael Owusu (2023). Baseline assessment of naturally occurring radionuclides in borehole water of Asikam-gold mining community in Ghana, *Scientific African* 20, e01730. https://doi.org/10.1016/j.sciaf.2023.e01730

22. Joseph Sekyi-Ansah, Stephen Eduku, Felix Uba, James Kwasi Quaisie, Philip Yamba, Philip baidoo, Enoch A. Doudu, **Emmanuel Amankwah** & Enoch A. Larson (2022). Effect of Cavitation Water Jet Peening on 8090 Al-li Fatigue Life N/cycle. *International Journal of Engineering Research and Technology*, 15(2), 130-137. http: //www.irphouse.com

23. G. E. Sebiawu, G.E, Mensah, J.N, **Amankwah, E**. & Antwi-Akomeah, E. (2020). Toxic Metal Contamination of Locally Produced Tobacco in Tamale Metropolis in Northern Region of Ghana. *Current Journal of Applied Science and Technology, 39* (44), 15-25. DOI: 10.9734/CJAST/2020/v39i4431147

24. Sebiawu E. G., Mensah J. N. & **Amankwah, E**. (2020). Bioaccumulation of Heavy Metals Concentration in Some Selected Cereals Grown Near Illegal Mine Sites at Poyentanga in Wa of the Upper West Region, Ghana. *European Journal of Environment and Earth Sciences, 1*(3), 1-7. http://dx.doi.org/10.24018/ejgeo.2020.1.3.7

25. Atta-Darkwa, T., Asomaning, S. K., Agbeshie, A. A., Danso, E. O., Akolgo, G. A., **Amankwah, E**. & Owusu P. A. (2020). Assessment of physicochemical properties of Besease wetland soils, Ghana. *Afr. J. Agric. Res.,* 15 (4), 509 – 523. https://doi.org/10.5897/AJAR2019.14547

26. Akolgo, G.A., Kemausuor, F., Awafo, E.A., **Amankwah, E**., Atta-Darkwa, T., Essandoh, E.O., Bart-Plange, A. & de Freitas Maia, C.M.B. (2020) Biochar as a Soil Amendment Tool: Effects on Soil Properties and Yield of Maize and Cabbage in Brong-Ahafo Region, Ghana. *Open Journal of Soil Science, 10*, 91-108. https://doi.org/10.4236/ojss.2020.103005

27. **Emmanuel**, **A**., Edward, A., & Thomas, A.-D. (2020). Socioeconomic Impact of Development Projects on the Livelihood of Farmers: A Case Study of the Bui Dam Hydroelectric Project. *Journal of Geography, Environment and Earth Science International, 24*(1), 34-44. https://doi.org/10.9734/jgeesi/2020/v24i130192

28. Thomas, A.-D., Ofosu, A.**E., Emmanuel,** A., De-Graft, A.J., Ayine, A.G., Asare, A. and Alexander, A. (2020) Comparison and Estimation of Four Infiltration Models. *Open Journal of Soil Science, 10,* 45-57. https://doi.org/10.4236/ojss.2020.102003

29. Amankwah E. (2019). Impact of Climate variability and change on agricultural productivity in the three northern regions of Ghana. *American Journal of Environmental Science and Technology,* 3(1), 30-41

30. Mensah J. N., **Amankwah E**., Attah-Darkwa T. & Sebiawu E. G. (2019). Evaluation of Physico-chemical water quality treatment efficiency: A Case study of Jambussi Water Headworks in the Upper West Region of Ghana. *International journal of Environmental Quality*, *37* (2020), 40-51. DOI:10.6092/issn.2281-4485/9769

31. **Amankwah E**. & Mensah J. N. (2019). Rainwater harvesting – a potential safety net for water security in Ghana. *Asian Journal of Environment and Ecology, 10(2), 1-10.* https://doi.org/10.9734/ajee/2019/v10i230115

32. Amankwah, E. (2019). Tropical Forest: A Potential Resource for Climate Change Mitigation in Ghana. *International Journal of Environment and Climate Change*, 9(8), 435- 442. https://doi.org/10.9734/ijecc/2019/v9i830128

33. Amankwah E., Hans-Jüngen V.(2016). Perception of irrigation farmers' livelihood on a changing climate in UWR of Ghana. JENRM, under review.

34. Amankwah E. (2015). Impact of Climate Change on Irrigation Water Resource Management; a case study in the Upper West Region. PhD thesis published as book.

35. Amankwah E., Hans-Jüngen V.(2015). Environmental Impact Assessment of the Bui Hydro Dam: socio-economic aspect of farmers' livelihood. Agric. Res. Springer, under review.

36. Amankwah E. (2015). Solar Energy: A potential source of energy for agricultural and rural development in Ghana. Journal of Agriculture and Ecology Research International,3(4):131-140

37. Amankwah E. (2014). Can Small-Scale Agricultural Schemes in Ghana Survive under Climate Change? International Journal of Engineering Research and Technology, Vol. 3, Issue 7, pp 1680-1685

38. Amankwah E. (2014). Rising Temperature and Declining Rainfall: a threat to water security in northern region of Ghana. British Journal of Applied Science and Technology. 4(34); 4721-4730

39. Cheo E.A, **Amankwah E**., Techoro P. S. (2014). Water Harvesting: A Potential means for water security in the Far North Region of Cameroon. Agric. Res. Springer DOI 10.1007/s40003-014-0133-7

40. Amankwah E. (2013). Impact of illegal mining on water resources for domestic and irrigation purposes. ARPN Journal of Earth Sciences, Vol 2, No. 3, 2013, pp 117-121

41. Amankwah E. (2013). Environmental Impact Assessment (EIA); A Useful Tool to Address Climate Change in Ghana. International Journal of Environmental Protection and Policy. Vol. 1, No. 4, 2013, pp. 94-100

42. Amankwah E. (2012). Solid waste management in the Wa Municipality, challenges and the way forward. IJARE, Vol, No. 1, pp 009-014

43. Amankwah, E., Ocloo, T. O. (2012). Contribution of Small-Scale Irrigated Agriculture to Food Security. Journal of Development in Sustainable Agriculture. Vol.7(2) pp 115-121

44. Hamidatu, S. D. **Amankwah E**., Adams, R. (2012). Building on Community Supported Agriculture for Commercial Food Production in the UWR. ARPN Journal of Agricultural and Biological Science. Vol. 7 (11) pp 953 - 957

45. Amankwah, E. (2012). Towards Desertification in the Upper West Region of Ghana. International Journal of Technology and Management Research. Vol. 1(1) pp 87-92

46. Amankwah, E. and Darimani S.H. (2012). Evaluation of biogas production and slurry from organic solid waste for agricultural productivity and rural development. International Journal of Current Research. Vol. 4(2) pp 111-116

47. Quansah P., **Amankwah E**. and Aikins E. (2012). Influence of MASLOC on the Development of Small and Medium Scale Enterprises in the Wa Municipality. European Journal of Business and Management. Vol. 4 (1) pp 1-10

48. Amankwah, E. (2011). Integration of biogas technology into the farming system of the three northern regions of Ghana. Journal of Economics and Sustainable Development, Vol. 2 (4). pp 76-85

49. Amankwah, E. and Swanzy, P. (2011). The role of stakeholders in building adequate competencies among students for the job market: International Journal of Vocational and Technical Education. Vol. 3 (8) pp 107-112

50. Amankwah, E. (2011). Relevance of Competency Based Training in Polytechnic Education for National Development. International Journal of Education and Practice. Vol. 2 (7). pp 11-22

51. Amankwah, E. (2009). Towards Desertification in the Upper West Region. In: Addo A, Owusu-Sekyere, D.J. & Amoah R.S. (Eds), Proceedings of the 4th National Conference of GSAE on Engineering Solutions for Energy and Food Production. UCC, 19-20 Sept. pp 261 – 267

52. Amankwah, E. (2008). Effect of Climate Change on Food Security in vulnerable areas of Ghana: The case of Upper West Region. In: Albrecht, Egute & Forbid (Eds), Proceedings of the 1st Alumni Conference of UB, Cameroon and BTU, Germany on Risk Assessment and Management for Environmental Protection in Sub-Saharan Africa. Cameroon, 8th – 11th December, pp 171-181

53. Amankwah, E. (2008). Risk Assessment and Management for environmental protection in sub-Saharan Africa: The case of Ghana. In: Albrecht, Egute & Forbid (Eds), Proceedings of the 1st Alumni Conference of UB, Cameroon and BTU, Germany on Risk Assessment and Management for Environmental Protection in Sub-Saharan Africa. Cameroon, 8th – 11th December, pp 53 – 60

CONFERENCES, SEMINARS AND WORKSHOPS ATTENDED

I have attended several workshops, seminars and conferences both locally and abroad among which are

1. International Conference on Counsellors and Associates. Becoming a world-renowned Counsellor, adapt, innovate and navigate. Paul Penteng Conference Hall, Adum-Kumasi, 20th – 23rd November, 2025. **(Presenter)**

2. International DAAD Alumni Seminar, Responsible Artisanal and Industrial Miners in Ghana, Raybow International Hotel, Takoradi, 5th – 11th October, 2025.

3. The 2nd hybrid version of the International Conference on Science, Technology and Health Innovation for Sustainable Development. Advancing Sustainable Futures through Environment, Health, ICT, and Food Security: The Role of Emerging Scientists. RCEES – UENR, Sunyani, 20th – 22nd August, 2025. **Presenter**

4. Africa Regional Conference & Exhibition on Education and Skills Development. Harnessing entrepreneurship and innovation to tackle youth unemployment. Accra Conference Centre, Accra. 5th - 7th August, 2025. **Member of Panel of Judges**

5. Workshop on World Environmental Day, Repurpose Plastic Waste. Sheila's Executive Hotel, Sunyani, 4th July, 2025 (**Presenter**).

6. First International Conference on Mineral Mining in Ghana and Phytoremediation, CSIR, Kumasi, 15th June – 18th June, 2025 (**Presenter**).

7. Workshop on Improving Study Programmes in Ghana by Introducing Green Solutions, Sustainability Modules and Digital Transformation. Politecnico di Milano, Italy. 3rd – 7th February, 2025.

8. Workshop on Improving Study Programmes in Ghana by Introducing Green Solutions, Sustainability Modules and Digital Transformation. RWTH University, Aachen, Germany. 21st – 25th October, 2024.

9. International Conference on Energy and Engineering (ICEE 24); Engineering advances in the energy transition space, innovation, inclusion and impact. RCEES – UENR, Sunyani, 30th September – 4th October, 2024.

10. Commission for Technical and Vocational Education and Training (CTVET) workshop on generation of tools and equipment list for waste management and environmental sanitation curriculum (NC 1, NC ll and HND). Windy Lodge & Beach Resort, Winneba. 25th August – 4th September, 2024.

11. Africa Regional Conference & Exhibition on Education and Skills Development. Unlocking Africa's Youth Potential for Socio-economic Transformation. Movenpick Ambassador Hotel, Accra. 12 June 2024. **Member of Panel of Judges**

12. GIZ workshop on Quality Editing of CBT curriculum on recycling technology. Hepzibah Hotel, Aburi. 10th – 28th June, 2024.

13. DAAD Alumni Workshop on Reinforcing Entrepreneurship to Minimize Unemployment in Ghana. Odjidja Royal Palace Hotel, Kwabenya, Accra. 23– 26 May, 2024. **Presenter**

14. Commission for Technical and Vocational Education and Training (CTVET) workshop on CBT curricula for skills development in the TVET sector. Windy Lodge & Beach Resort, Winneba. 11th – 27th March, 2024.

15. Commission for Technical and Vocational Education and Training (CTVET) workshop on CBT curricula for skills development in the TVET sector. Pempamsie Hotel, Cape Coast. 5th – 16th February, 2024.

16. Commission for Technical and Vocational Education and Training (CTVET) workshop on CBT curricula for skills development in the TVET sector. Windy Lodge & Beach Resort, Winneba. 8th – 26th January, 2024.

17. Commission for Technical and Vocational Education and Training (CTVET) workshop on CBT curricula for skills development in the TVET sector. Gloriaka, Winneba. 6th November – 10th November, 2023.

18. Commission for Technical and Vocational Education and Training (CTVET) workshop on Occupational Standards Review and Approval. Ampomah Hotel, East Legon, Accra. 2nd – 4th October, 2023.

19. DAAD Alumni Workshop on the Invisible Effect of Mental Health on Productivity in Sub-Saharan Africa. Triple Hill Hotel, Accra. 9th – 12th August, 2023. **Presenter**

20. Commission for Technical and Vocational Education and Training (CTVET) workshop on CBT curricula for skills development in the TVET sector. Windy Lodge & Beach Resort, Winneba. 17th July – 4th August, 2023.

21. 2nd Annual 2-day transformational dialogue on Small-Scale Mining. Sustaining Environmental Security and Human Rights in Small-Scale Mining Operations in Ghana. Sheila's Executive Hotel, Sunyani. 17th to 19th May, 2023. **Presenter**

22. Trauma Healing Community of Practice Conference: Recognising and Responding to Societal Abuse. Coconut Grove Regency Hotel, Accra. 14-15 November, 2022.

23. DAAD International Alumni Conference on "Sustainable Mining, Natural Resources Awareness and Social Acceptance of Mining." UMAT, Tarkwa. 7th -12th November, 2022 - **Presenter**

24. International Conference for Counsellors and Associates; inclusive counselling: a call to focus on clients with exceptional abilities. GTEC Conference hall, Accra. 28 – 29 October, 2022

25. The 4th GSAE – PASAE International Conference, Engineering Africa's Agriculture as business for Sustainable Development with focus on Agenda 2063. IDL, KNUST, Kumasi, 10th – 14th October, 2022. **Presenter**

26. DAAD Alumni Workshop on "Curbing Rural Urban Migration- the role of DAAD Alumni Network in Bridging Rural Urban Divides in Ghana" Blue Hill Hotel, Wa - UWR, September 8-11, 2022. **Presenter**

27. Branch 2 GhIE Maiden Conference and Annual General Meeting; Engineering, key to Achieving National Development, Tyco City Hotel, June 2, 2022, Sunyani. **Presenter**

28. 2-day Transformational Dialogue on Small Scale Mining; Enhancing Multi-stakeholder approaches towards addressing challenges with artisanal and small-scale mining, and the institutional dynamics for sustainable practices in Ghana. Sheila Executive Hotel, 25th - 26th May, 2022, Sunyani

29. DAAD Alumni Workshop on "The future of the world's population in sustainable cities" Promising Star Hotel, Breman- Kumasi, February 11-14, 2021. **Presenter**

30. RCEES Workshop on Thesis Supervision, UENR, Sunyani, 19th -21st January, 2021

31. Erasmus+ Project workshop on Students' Centred Learning, UENR, Tyco, Sunyani on 12th – 15th January, 2021

32. DAAD Alumni Workshop on Community Participation in preventing non-communicable diseases in West Africa, Summit Lodge Hotel, Koforidua, December 16th-18th, 2020.

33. RCEES 2nd International Conference on Engineering, Applied Science and System Modelling, Eusbett, Sunyani, 11th – 13th December, 2019

34. A two-day leadership training for Deans, Directors, Heads of Department/Division/Sections/Units, UENR, Tyco, Sunyani on 3rd – 4th October, 2019.

35. RLC / ZEF Alumni Workshop on Agricultural and Social Transformation – *Securing Livelihood in Sub-Saharan Africa,* Bonn, Germany from 1st July – 4th July 2019. **Poster Presentation**

36. Study Tour to Hannover Messe (Fair) on Energy Exhibition in relation to Fostering Rapid Growth of Decentralized Renewable Energy to Boost Energy Access in Developing Countries, Hannover, Germany from 1st April to 6th April 2019.

37. Seminar of International DAAD Alumni Advanced Training Seminar on Fostering Rapid Growth of Decentralized Renewable Energy to Boost Energy Access in Developing Countries, Cottbus, Germany from 24th March to 30th March 2019. **Presenter**

38. Seminar on Professional Development Interactive Seminar, Circle Institutional Strengthening Programme, UENR, Sunyani on 21st February 2019.

39. Workshop on Good Assessment Practices in Higher Education: Improving Teaching and Learning Workshop, UENR, Sunyani from 16th – 17th January 2019.

40. Workshop for Capacity Building on Curriculum Development to mount New Programmes – NCTE and NAB requirement, UENR, Sunyani from 27th – 28th September 2018

41. Workshop on Curriculum Development, UENR, Sunyani from 14th – 15th August, 2018.

42. Conference of the Right Livelihood College on Food Security and sustainable agriculture: The future of smallholder farmers, Bonn, Germany from 30th May to 4th June 2015

43. Conference of DAAD Graduate Academy on Sustainable Natural Resource Management in Sub-Sahara Africa, Berlin Germany from 25th to 29th September 2013.

44. 3rd Annual Research Conference of Koforidua Polytechnic from 17-19 May, 2010.

45. 1st Alumni Conference of UB, Cameroon and BTU, Germany on Risk Assessment and Management for Environmental Protection in Sub-Saharan Africa. Cameroon, 8th – 11th December, 2008

46. 4th National Conference of GSAE on Engineering Solutions for Energy and Food Production. UCC, 19-20 Sept. 2007

MEMBERSHIP OF PROFESSIONAL BODIES

1. **Member** - Ghana Institution of Engineering (PE-GhIE)
2. **Member** - Ghana Society of Agricultural Engineers (GSAE)
3. **Member**- Pan African Society of Agricultural Engineering (PASAE)
4. **Member**- Ghana Psychological Council (GPC)
5. **Member** - Ghana National Association Certificated Counsellors (GNACC)
6. **Member** - Ghana Institute of Safety & Environmental Professionals (GhISEP)

SERVICE TO UNIVERSITY COMMUNITY SINCE 2018

Date	Role	Description
October, 2025	Chairman	Committee to develop Guidance and Counselling Policy
March, 2025	Member	Assessment of promotional document from Senior Lecturer to Associate Professor at the Dept. of Environmental Engineering
March, 2025	Member	Assessment of promotional document from Senior Lecturer to Associate Professor at the Dept. of Agricultural Engineering
January, 2025	Member	Committee for the implementation of the strategic plan of the School of Natural Resources.
January, 2025	Member	Committee to review a proposal for MSc. Natural Resources and Sustainability for accreditation (School of Graduate Studies)
August 2024 – Date	Chairman	Quality Assurance Sub-Committee for Department of Environmental Management
August 2024 – Date	Member	Committee for the development of short courses on Waste Management
July 2024	Chairman	Committee to develop BSc. Land reclamation and restoration curriculum for accreditation
July 24 to date	Chairman	Department curriculum development committee
July 2024	Chairman	Committee to review MSc. Natural Resources curriculum for accreditation
June 2024	Chairman	Committee to review MPhil, MSc & PhD Fire Safety and Disaster Management curriculum for accreditation
Jan 2024 to date	Dept. Rep.	School of Natural Resources- School Board
March 2024 to date	Chairman	Quality Assurance Sub-Committee for School of Natural Resources
August 2023	Member	Committee to review a proposal for MSc. & MPhil Mechanical Engineering for accreditation
June 2023	Member	Accreditation committee to review MSc. /MPhil /PhD for Environment, Water and Sustainability
Dec. 12-16, 23	Ag. Dean (SoE)	Act when the substantive Dean is out for official assignment
Aug. 2021 – July 2023	HoD	Department of Mechanical and Manufacturing Engineering (Mechanical and Agricultural Engineering)
Sept. 26-30, 2022	Ag. Dean (SoE)	Act when the substantive Dean is out for official assignment

Since 2022	Internal Assessor	Internal assessor for MPhil and PhD theses
March 2022 – July 23	Patron	Agricultural and Bioresources Engineering Students Association
Aug. 2019 – July 2021	HoD	Department of Mechanical and Manufacturing Engineering (Mechanical and Agricultural Engineering)
Oct. 2019 – Oct. 2021	Member	Research, Conferences & Scholarships Committee
21 June 2021	Chairman	Speak out for Engineering - Institution of Mechanical Engineers
May 2021	Chairman	Committee to review BSc. Engineering Physics curriculum for accreditation
April 2021	Chairman	Committee to review BSc. Food Technology curriculum for accreditation
June 2021	Member	Committee for the creation of school of Energy
Sept. 2021	Member	Committee for integration of Non-Science Students into Engineering
June 2021	Member	Committee for solving liquid waste problem at the GETFund Hostel
June - July 2020	Chairman	Revised Students Handbook Committee
May 2020	Member	Committee to review MSc. Bioresources Engineering curriculum for re-accreditation
Aug. 2019 – July 2023	Member	Academic Board
February 2020	Chairman	Committee to review MPhil. Applied Mathematics curriculum for accreditation
Dec. 2019 - Date	Fellow (RCEES)	Member of team for undertaken various teaching and research assignment at the Regional Centre for Energy and Environmental Sustainability (RCEES)
Sept 2018 - July 2019	Representative	Academic Board member for Agric. Engineering
2019	Chairman	Reaccreditation Committee for Agric. Engineering
Oct. 2018 – Oct. 2019	Member	Committee to develop Diploma in Agric. Engineering programme
Oct. 2018 – July 2020	Chairman	Accreditation Committee for Agric. Engineering
Oct. 2018 to Oct. 2019	Member	Committee to develop postgraduate programme for Agricultural Engineering

OTHER PROFESSIONAL EXPERIENCES AND EXTENSION WORK SINCE 2018

Date	Client / Employer	Description
June, 2026	GTEC	Panel chairman for assessment of MSc. Circular Design and Recycling Technologies for accreditation at Tamale Technical University, Tamale.
April, 2026	GTEC	Panel chairman for assessment of HND in Environmental Management and Technology for accreditation at Koforidua Technical University, Koforidua.
March, 2026	GNACC	Member- Professional development committee of GNACC
March, 2026	GTEC	Panel chairman for assessment of BSc. Agricultural Engineering for accreditation at KNUST, Kumasi.
Dec., 2025	GTEC	Panel member for assessment of MPhil & PhD programme for accreditation at AAMUSTED, Mampong / Kumasi.
March, 2025	ESDEV Africa Foundation & ATU	Member of panel of Judges - Africa regional conference & exhibition on education and skills development
August, 2025	GTEC	Panel member for assessment of MSc. MPhil & PhD programme for accreditation at UMaT, Tarkwa.

21-22 Nov. 2024	GTEC	Panel member for assessment of MSc. MPhil & PhD programme for accreditation at UCC, Cape Coast.
26 Aug – 4 Sept, 2024	CTVET	Generation of tools and equipment list on waste management and environmental sanitation (NC 1, NC ll and HND)
June – July, 2024	GIZ	Consultant: TVET Quality editing and generation of tools and equipment list on recycling technology
June 2024	ESDEV Africa Foundation & ATU	Member of panel of Judges - Africa regional conference & exhibition on education and skills development
Feb 24	Federal Ministry of Education and Research (BMBF)	Evaluator of proposal for German-African Innovation Incentive Award (GAIIA)
July 17 – Aug. 4, 2023	Commission for Technical and Vocational Education and Training (CTVET)	Team lead - Development of Competency Based Training (CBT) curriculum for skills development in the TVET sector: Occupational Standards (OS) for Waste Management and Process Technology (NC 1& NC ll)
Aug. 14 – 25, 2023	CTVET	Team lead - Validation of Occupational Standards, Waste Management and Process Technology (NC l & NC ll)
1st August, 2025	Blessed Assurance Model School	Speaker to the school graduation and career ceremony
Sept. 4 -22, 2023	CTVET	Team lead – Development of Learning Materials for Waste Management and Process Technology (NC l& NC ll)
Oct. 16 – Nov. 3, 2023	CTVET	Team lead – Development of Occupational Standards (OS), Waste management and process technology (HND)
Nov. 15, 2023	GTEC	Assessment of MSc. programme for accreditation at Regional Maritime University, Nungua
Nov.6-10, 2023	CTVET	Team lead - Validation of Occupational Standards, Waste Management and Process Technology (HND)
Dec. 4 – 23, 2023	CTVET	Team lead – Development of Learning Materials for Environmental Sanitation and Waste Management (HND)
Jan. 14 – Feb.2, 2024	CTVET	Team lead – Development of assessment, reassessment and marking guidelines, Waste Management and Process Technology (NC l & NC ll)
Feb.5 - 16, 2024	CTVET	Team lead – Development of assessment, reassessment and marking guidelines, Environmental Sanitation and Waste management (HND)
March 11 – 29, 2024	CTVET	Team lead – Quality Editing, Environmental Sanitation and Waste Management (NC l, NC ll and HND)
Since 2022	NABPTEX	Moderator – External Examinations
Since 2022	Ghana Tertiary Education Commission (GTEC)	Panel member - GTEC accreditation expert team for programme assessment

2023 - Date	GSAE	Vice Secretary of Ghana Society for Agricultural Engineering
2023	Ghana Institution of Engineering (GhIE)	Member – GhIE Magazine sub-committee
Since 2022	GhIE	Panel member - GhIE professional examinations experts
2022 - 2024	GhIE	Member - GhIE publication committee
2021 - 2023	GhIE	Member - GhIE Editorial Board
2021	Sunyani Technical University (STU)	External Assessor – University Appointments and promotions Board
2023	University of Cape Coast (UCC)	External assessor of three (3) MPhil theses from the Department of Environmental Science
2018 - 2020	KT Prep. School, Ksi	Board Member - Kensington Trust Prep. School, Kumasi
2018	Urban Waste	Consultant – Urban Waste management, Wa Municipality

RESEARCH INTEREST

Waste management, soil and water conservation, water quality, environmental management, agriculture and climate change.

AWARDS

Travel grants to attend Workshop on Improving Study Programmes in Ghana by Introducing Green Solutions, Sustainability Modules and Digital Transformation. Politecnico di Milano, Italy. 3rd – 7th February, 2025.

Travel grants to attend Workshop on Improving Study Programmes in Ghana by Introducing Green Solutions, Sustainability Modules and Digital Transformation. RWTH University, Aachen, Germany, 21st – 25th October, 2024.

Travel grants to attend International DAAD Alumni Advanced Training Seminar on Fostering Rapid Growth of Decentralized Renewable Energy to Boost Energy Access in Developing Countries, Cottbus, Germany from 24th March to 30th March 2019.

Travel grant for a study tour to Hannover Messe (Fair) on Energy Exhibition in relation to Fostering Rapid Growth of Decentralized Renewable Energy to Boost Energy Access in Developing Countries, Hannover, Germany from 1st April to 6th April 2019.

Travel grant to attend RLC / ZEF Alumni Workshop on Agricultural and Social Transformation, Bonn, Germany from 1st July – 4th July 2019.

DAAD and Ghana Government Scholarship award for PhD studies.

Young Scientists Award, Right Livelihood College, Bonn – Germany

Travel grant from CIDA for a study tour to Saskatchewan, Canada.

REFERENCES

Upon request

Signature of Applicant ……..... Date: 27th July 2026