

ASIWOME BOATENG

PERSONAL DETAILS

Postal Address: C/O Materials Engineering Department, KNUST, Ghana
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EDUCATION

PhD. Materials Engineering **2025 to Date**
Kwame Nkrumah University of Science and Technology, Ghana.

Data Analysis **2024 to Date**
DataCamp.

MPhil. Materials Engineering **2021 – 2024**
Kwame Nkrumah University of Science and Technology, Ghana.
Thesis: Corrosion Inhibition Efficiency of Expired Antimalarial Drugs on 304L and 316L Stainless Steels in Acidic and Basic Media Using Electrochemical Method

Cloud Computing **2023 to Date**
Amazon Web Services

BSc. Materials Engineering **2016 – 2020**
Kwame Nkrumah University of Science and Technology, Ghana
Thesis: Investigation of the Effects of Heat Treatments on the Microstructure, Mechanical Properties and Corrosion Behaviour of 304L Stainless Steel Weld Metal.

WORK EXPERIENCE

DevOps Engineer, Terateck Solutions, Kumasi **June 2024 – Date**

- Designing and implementation of comprehensive Terraform projects, structuring environments and modules for AWS infrastructure.
- Automating the deployment of CI/CD Backend services to AWS using GitHub Actions and AWS CodeDeploy
- Utilizing Docker to containerize PHP, WordPress, and Django applications, enhancing deployment efficiency and consistency.
- Deploying and managing a Django API on AWS EC2 D, utilizing Nginx, Docker, and Let's Encrypt for secure, scalable application management
- Provisioning and managing of AWS infrastructure using AWS Cloudformation

Materials Lab Technician, Ghana Highway Authority, Ho **Aug 2021 – Feb 2022**

- Responsible for general management of the laboratory
- Running quality assurance tests on gravel, aggregates and concretes for construction purposes, in lab and on site
- Geotechnical investigations and analysis
- Construction site supervision
- Data Entry

- Perform gravel exploration and soil sampling for testing
- Quality control and assurance testing of soil samples and aggregates

PUBLICATIONS

1. **Boateng, A.**, Arthur, E.K., Gikunoo, E. and Afriyie, E., 2025. Corrosion Inhibition Efficiency of Expired Antimalarial Drugs on Stainless Steels in Acidic and Basic Media. *Results in Surfaces and Interfaces*, p.100414. <https://doi.org/10.1016/j.rsurfi.2025.100414>
2. Afriyie, E., Arthur, E.K., Gikunoo, E. and **Boateng, A.**, 2025. Bentonite-Assisted Carbonization of Waste Polyethylene Terephthalate Bottles for the Removal of Heavy Metals from Polluted Water. *Results in Surfaces and Interfaces*, p.100406. <https://doi.org/10.1016/j.rsurfi.2024.100406>

PROFESSIONAL ACTIVITIES

Peer Reviewer - Journal of Environmental Chemical Engineering, *Elsevier Journals* **October 2024 to Date**

- Conducting thorough reviews of submitted articles, providing feedback on content quality, research methodology, and overall relevance to ensure adherence to high publication standards.

SKILLS

DevOps	Terraform, AWS, Docker, Github workflows, Linux, Bash, Ansible,
Lab Techniques	Materials Engineering lab tests and results interpretation, Civil Materials lab tests and results interpretation
Computing	Microsoft Office Proficiency, AWS Cloud Computing
Soft Skills	People Management, Leadership, Reliability
Strategic and Business Planning	Business Model Development, Business Planning, Project Management
Academic and Editorial	Article reviewing for Elsevier, Research evaluation

LICENSES AND CERTIFICATIONS



Digital Ad Certificate - Digital Marketing - Aleph Group, Inc 547311430875



Sustainable Business Start-ups (SBS) Entrepreneurship Training – Mastercard Foundation Africa Higher Education Health Collaborative **September, 2023**

LEADERSHIP

Founder and C.E.O of PLASTICO GHANA LTD
Production of Sand-Plastic Bricks for Sustainable Construction Works

September 2023 to Date

INTERESTS

- Reviewing articles for publications (Elsevier)
- Technology
- Reading.
- Listening to podcasts.

REFEREES

1. Dr. Emmanuel Kwesi Arthur, H.O.D, Department of Materials Engineering, KNUST

+233541710532 : ekarthur2005@gmail.com

2. Ing. Shaibu Mahama Senseu, Regional Materials Engineer, Western North Region

+233244629071 : mahamashuaibsensau@gmail.com

3. Jephter Kumuyi Danso, Chief Executive Officer, Terateck Solutions

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