

# CURRICULUM VITAE

## Bernard Kofi Baiden

PhD (Loughborough) MSc (Leeds) BSc (Kumasi)

FGIOC MGhIS MPMI

**Professor of Construction Project Delivery**

Updated

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# PROFESSOR BERNARD KOFI BAIDEN

PhD (Loughborough) MSc (Leeds) BSc (Kumasi) FGIOC MGhIS MPMI AMASCE

**Professor of Construction Project Delivery**

## PERSONAL DETAILS

### NAME AND CONTACT

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Faculty of Built Environment  
College of Art and Built Environment.  
Kwame Nkrumah University of Science and Technology.  
Kumasi, Ghana.

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### EDUCATION

2002 - 2006 Loughborough University, Loughborough, UK.  
1996 -1997 Leeds University, Leeds, UK.  
1990 -1993 Kwame Nkrumah University of Science & Technology, Kumasi, Ghana.  
1981-1988 Mfantsipim School, Cape-Coast, Ghana.

### ACADEMIC QUALIFICATION

2006 PhD in Construction Management.  
1997 MSc (Engineering) International Construction Management and Engineering.  
1993 BSc (Hons) Building Technology, 1<sup>st</sup> Class.  
1988 GCE A Levels (Mathematics, Physics and Chemistry).  
1986 GCE O Levels (Maths, Add. Maths, English, Physics, Chemistry, Biology and Tech. Dwg)

### ACADEMIC/RESEARCH AWARDS

2018 Emerald Literati Highly Commended Award for Excellence  
(Journal of Engineering, Design and Technology 15(1): 118-132).  
2008 Emerald Literati Highly Commended Award for Excellence  
(Structural Survey 25(3/4):204-219).  
2002 Commonwealth Academic Staff Scholarship  
for PhD tenable at Loughborough University, UK.  
1996 ODA/SSS Scholarship  
for 1-year taught MSc tenable at Leeds University, UK.  
1994 Best graduating student in Quantity Surveying and Building Economics.  
1994 Overall best graduating student, Faculty of Environmental & Development Studies.

### MEMBERSHIP OF PROFESSIONAL BODIES

Fellow: Ghana Institute of Construction (since 2014).

Member: Project Management Institute (since 2008).

Member: Ghana Institution of Surveyors (since 2020)

## CAREER SUMMARY

- ~ Construction Project Management and Contract Administration Professional and Academic with 32 years industry experience in the management and delivery of Engineering Construction and Infrastructure projects and 28 years research experience in Construction Project Delivery.
- ~ Member of national and internationally recognised Construction, Cost and Project Management professional institution.
- ~ Obtained BSc in Building Technology in 1993, MSc (Engineering) in Construction Management and Engineering in 1997 and PhD (Construction Project Management) in 2006.
- ~ Worked as a **Teaching Assistant** at the Department of Building Technology, KNUST, Kumasi from 1993 to 1994 and **Project Engineer** with an Engineering, Procurement and Construction Management contractor, Minproc Engineers Pty from 1994 to 1996.
- ~ Became a **Lecturer** in Building Technology (Quantity Surveying and Building Management) at KNUST in January 1998, a **Senior Lecturer** in Construction Technology and Management in October 2007, **Associate Professor** of Construction Project Delivery in August 2015 and **Professor** of Construction Project Delivery in August 2020
- ~ Research focus and supervision in construction/project management, contract administration innovations, project delivery performance, building and construction materials and performance measurement, benchmarking, procurement and total quality management.
- ~ University teaching experience in construction technology, research and management-based courses such as Materials and Construction, Management in Construction, Human Resource Management, Construction Planning and Scheduling, Entrepreneurship Management, Construction Resource (Human, Materials & Plant) Management and Research Methods
- ~ University administrative positions held include **Head**, Department of Construction Technology and Management; **Dean**, KNUST School of Business; **Head**, Department of Building Technology; **Coordinator**, Postgraduate Studies, Department of Building Technology; **Coordinator**, BSc Programmes (QSCE & CTM) at the Institute for Distance Learning; **Examinations officer**, Department of Building Technology; **Examinations Officer**, Faculty of Environmental & Development Studies; **Convener**, Industry-focused Workshops and Seminars, Department of Building Technology.
- ~ Membership of Academic, Collage and Faculty Boards, Council, University, College and Faculty Level Committees and Sub-Committee, Moderation of programmes and courses at affiliated Universities and Polytechnics and Assessment of promotions to academic positions.
- ~ Excellent leadership skill based on an inclusive approach, free flow and exchange of pertinent information, motivation of staff, fair treatment and equal opportunities for progress and promotion in a collaborative work environment and friendly atmosphere.
- ~ Highly effective in attracting funding and sponsorship of academic-related activities and efficient in revenue management with the skills and abilities for a balanced and judicious use of funds leading to improved value for money.
- ~ Generated GHc42m (\$10m) over 5 years from postgraduate fee-paying programmes at KNUST School of Business (1 year) and Department of Construction Technology and Management (3 years). Grant of \$178K from IFC for a 2-year Corporate Governance capacity building for faculty at the KNUST School of Business. Financial Resource Mobilisation of \$40K for Vehicle Purchases for KNUST School of Business.
- ~ **Sixty-four (64)** scholarly publications comprising **1 book, 2 book chapters, 44** peer-reviewed international **journal papers** and **17 conference proceedings** on benchmarking, procurement, construction materials and project management. Winner of 2008 and 2018 Emerald Awards for publication on Liquidated and Ascertained Damages (LAD) in Ghanaian construction contracts and Financial Distress and Highway Infrastructure Delays respectively.
- ~ Completed Supervision/Examination of over two hundred (200) MSc, fifteen (15) MPhil theses and Nine (9) PhD theses. Currently supervising three (3) PhD research students.
- ~ External Examiner/Moderator of KNUST Affiliated Universities in Construction and Procurement Management Programmes and Assessor of Promotions up to Professor rank.

## EMPLOYMENT HISTORY

### ACADEMIC RANKS

Aug. 20 - Date	Professor of Construction Project Delivery, Department of Construction Technology & Management KNUST, Kumasi, Ghana,
Aug.15 - Jul. 20	Associate Professor of Construction Project Delivery, Department of Construction Technology & Management (Formerly Building Technology) KNUST, Kumasi, Ghana,
Oct. 07 - Jul. 15	Senior Lecturer in Construction Technology and Management, Department of Building Technology, KNUST, Kumasi, Ghana.
Jan. 98 - Sept. 07	Lecturer in Building Technology, Department of Building Technology, KNUST, Kumasi, Ghana.
Sept.93 - Jul. 94	Teaching Assistant, Department of Building Technology, KNUST, Kumasi, Ghana.

### UNIVERSITY ADMINISTRATIVE APPOINTMENTS

Aug. 18 - Oct. 22	<b>Head.</b> Department of Construction Technology and Management, KNUST, Kumasi.
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### SUMMARISED RESPONSIBILITIES

- Headship of Department and Chairmanship of Departmental Board.
- Department leadership, effective and efficient governance.
- Industrial collaboration and linkages with Department.
- Revenue generation and management of resources.
- Infrastructure development for Staff and Students

### SUMMARY ACHIEVEMENTS

#### General Academic and Administrative

- Finalised the accreditation new postgraduate programme and re-accreditation of existing postgraduate and undergraduate programmes with Ghana Tertiary Education Council (GTEC).
- Average new admissions of 400 MSc students (regular and distance learning) and 40 MPhil/PhD students at various stages of completion
- GHS2m IGF funded upgrade of Administrative and Research infrastructure, Nine (9) Offices for lecturers, 24-Seater Study Hub for Teaching Assistants and Expansion of workshop space for students.

#### Financial and Resource Mobilisation

Increased revenue base of the department through increased Postgraduate admissions and effective programme management.

- Average gross IGF of GHS 8m from Fee-paying Postgraduate (MSc) programmes (Regular and Distance-Learning), 400% increase in 4 years.
- Average annual surplus income of GHS700k from 1 MSc and 2 BSc distance learning programmes.

- GHS 400k GETFund Scholarship for 23 MSc Students (Former TAs) in 4 years

#### Collaborations with Institutions and Industry

Collaborations and MOUs implemented.

1. Domod Roofing Ltd – MOU signed with firm for Awards and Internship to Overall Best 2<sup>nd</sup> year students in BSc CTM & BSc QSCE programmes and placement for National Service
2. GETFund – Initiative to provide the GETFund with students graduating with BSc Quantity Surveying and Construction Economics for national service assignment.
3. Ashanti Regional Coordination Council – annual training workshop for Directors, Engineers, Budget Officers, QS, etc. on project and contract management practices.

Aug. 16 - Jul. 17

#### **Dean.**

School of Business,  
KNUST, Kumasi.

#### SUMMARISED RESPONSIBILITIES

- Headship of School and Chairmanship of School Board.
- School leadership, effective and efficient governance.
- Industrial collaboration and linkages with School.
- Effective management of academic programmes and curricula.

#### SUMMARY ACHIEVEMENTS

##### General Academic and Administrative

- Restructured undergraduate admissions to promote effective scholarship.
- Aligned postgraduate programmes with international standards and refocused research degrees to increase quality and depth of research work.
- Initiated the strengthening of department for effective micromanagement.
- Increased faculty strength by 20% with more qualified applicants waiting.
- Increased awareness among faculty members in adherence to procedure.
- Relaunched School's website with revised faculty profiles.

##### Financial and Resource Mobilisation

Balanced financial resource management through increased revenue from quality and targeted programmes and industry sponsorship/partnership.

- 42% increase in revenue from GHS 9.009m to GHS 12.840m.
- 38% reduction in expenditure from GHS 1.758m to 1.096m.
- GHS 300,000 awards scheme from Beige Foundation.
- GHS 160,000 Toyota Hi-Lux vehicle for the school.

#### Collaborations with Institutions and Industry

Completed collaborations and partnerships to improve visibility and international presence. Exposed faculty members to collaborative research, proposal writing and career development with partners and collaborators.

Summary of collaboration concluded under my tenure of office.

1. International Finance Corporation, Ghana Office - Capacity building of faculty within KSB for the development of market specific curriculum for corporate

governance.

Grant of \$178 received for the training of trainers.

2. Beige Group, Ghana - Internship for 3<sup>rd</sup> year Students and awards for selected graduating students.
3. Birmingham City University, UK - Organisation of foundation/pre-master courses for students, joint postgraduate programmes and research.
4. Maastricht School of Management, Netherlands - Joint research partnership in proposal writing and bidding.
5. Bordeaux Ecole de Management (BEM), Dakar, Senegal - Joint research with faculty members with interest in Finance, curriculum development, student and faculty exchange, reciprocal placement and internship.

Aug. 15 - Jul. 16

**Head**

Department of Building Technology,  
KNUST, Kumasi.

**SUMMARY RESPONSIBILITIES**

- Headship of Department and Chairmanship of Departmental Board.
- Department leadership and effective and efficient governance.
- Industrial collaboration and linkages with faculty.
- Effective management of academic programmes

**SUMMARY ACHIEVEMENTS**

General Academic and Administrative

- Led the Department to 3<sup>rd</sup> position ranking in the University in 2015/16 with 77 publications by 14 lecturers up from 64 the previous academic year.
- Established a 12-seater study room for Research students.
- Implemented residence requirement for underperforming MSc students to be closely monitored with their research (dissertation) work.
- Established monthly student colloquium in addition to departmental research seminars for research students.
- Successfully implemented paperless distribution of circulars and notices.
- Activated the departmental website to increase visibility.

Financial and Resource Mobilisation

Improved revenue sources and base of the department through increased MSc admissions. Achieved excellent Lecturer-Student exchanges, quality delivery of lectures and conducive (air-conditioned lecture rooms fitted with LCD projectors and new furniture) teaching environment. Financially, the following were achieved during my headship tenure.

- Generated GHS 2.0m from demand-driven 1-year postgraduate taught programmes.
- Invested GHS 600,000 of departmental funds that was sitting idle in our accounts.
- Introduced early-bird discount fee system for postgraduate programmes that improved fees payment by over 50%.
- Instituted a departmental budget committee to review and approve departmental budget leading to savings of nearly 25% of staff remuneration through tight monetary controls and strict adherence to budget line items.

- Successfully negotiated a competitive investment rate for a GHS 100,000 research fund set up by past MSc students of the department and some industrial partners to assist needy postgraduate research students.

Dec. 14 - Jul. 15

**Head**

Department of Building Technology,  
KNUST, Kumasi.

**SUMMARY RESPONSIBILITIES**

- Headship of Department and Chairmanship of Departmental Board.
- Department leadership and effective and efficient governance.
- Industrial collaboration and linkages with faculty.
- Effective management of academic programmes

**SUMMARY ACHIEVEMENTS**

General Academic and Administrative

- Restructured Integrated Project at the undergraduate level to bring more focus on professional practice and office attendance.
- Improved the learning environment for the final year students.
- Initiated the process of acquiring new building for lectures, offices and cafeteria facilities for the department using IGF.
- Started the compilation of database of all past student pursuing further studies abroad and those who have completed to provide guidance to prospect students on scholarship starting with national service personnel in the department.
- Initiated the recruitment of new lecturers to replace retiring members.
- Established the postgraduate desk to deal with administrative and financial matters in relation to postgraduate programmes in the department.

Financial and Resource Mobilisation

My appointment was at end of the first semester when all matters of financial nature had been taken and implemented. My focus was, therefore, to review and improve or sustain the system in place and viability of the programmes. The exercise yielded the following results:

- Generated GHS1.8m from demand-driven 1-year postgraduate taught programmes
- Instituted the payment of postgraduate fees into the department proper tracking and monitoring revenues.
- A new fee monitoring system based on payments lodged at the bank and feedback.
- Strict control and clear demarcation of sources of expenditure.

**TEACHING**

**UNDERGRADUATE**

Capable of teaching introductory core subjects in Construction Technology and Management.

Specific subjects are:

- Introduction to Materials and Construction (Year 1)
- Introduction to Management in Construction (Year 1)
- Introduction to Building Management (Year 2)
- Plant Management (Year 2)
- Concrete Technology (Year 3)

- Concrete Components and Finishes (Year 3)
- Human Resource Management (Year 4)
- Entrepreneurship Management (Year 4)

## POSTGRADUATE

- Research Methods and Design
- Construction Resource (Human, Materials & Plant) Management
- Construction Planning and Scheduling
- Sectorial Procurement Management

## THESES EXAMINATIONS/SUPERVISION

In addition to the over 300 BSc project worked supervised and examined over the past 28 years, I have also been involved in higher level research supervision at the MSc, MPhil and PhD levels with excellent completion rate and time. More than 60% of students under my supervision publish at least 1 journal at the MPhil level and 3 at the PhD level. A summary of completed postgraduate theses supervision and examination and on-going research supervision are below:

### Completed MSc/MPhil Supervision/Examination (Summarised)

#### Supervisor

MPhil Procurement/Construction Management (12 candidates)  
MSc Construction/Procurement/Project Management (135 candidates)

#### Internal Examiner

MPhil Construction/Procurement Management (8 candidates).  
MSc Construction/Procurement/Project Management (110 candidates).

#### PhD Supervision (completed)

Dec. 2025 OWUSU-BOADU, Juliet  
Assessment of the Impact of Environmental Health and Safety (EHS) Practices on  
Organisational Performance in the Ghanaian Construction Industry: The Role of Diversity.  
*PhD Construction Management*

Sept. 2025: ABUNYUWA, Yaw Abrenya  
Development of an Organizational Culture-Based Framework for E-procurement  
implementation in the Ghanaian Public Sector.  
*PhD Procurement Management*

Sept. 2025: NYAGORMEY, Julius Jubilee,  
Managing Unsolicited Proposals in Public-Private Partnership Infrastructure Procurement.  
*PhD Construction Management*

Sept. 2024: MANPAYA, Maxwell Wahabu  
Framework for Corporate Governance Practices in Public Procurement Entities in Ghana.  
*PhD Procurement Management*

Sept. 2024: GIDIGAH, Bransford,  
Integrating Social Value into the Procurement of Construction Works in Ghana.  
*PhD Procurement Management*

Sept. 2021: ASAMOAH, Richard Oduro  
Developing Profitability Strategies for Small to Medium Scale Construction Firms based on  
Exogenous Economic Factors.  
*PhD Construction Management*

April 2018: OTTUO, Jemima Antwiwaa.  
Improving Construction Tendering Processes Using Six Sigma.  
*PhD Construction Management*

April 2014: OFORI-KURAGU, Joseph Kwame.  
Enabling World-Class Performance in Ghanaian Contractors: - A Framework for Benchmarking.  
*PhD Construction Management*

### **PhD Internal Examination**

Oct. 2016: MENSEAH, Sarfo.  
Contractors' Adaption to Environmentally Sustainable Construction Processes  
*PhD Building Technology*

Sept. 2015 ACHEAMPONG, Alex.  
Shear Strength Properties of Structural Lightweight Reinforced Concrete Beams Using Palm Kernel Shell Coarse Aggregates.  
*PhD Building Technology*

April 2009: AGBODJAH, Lilly Sena  
A People Management Policy Development (PMPD) Framework for Large Construction Companies Operating in Ghana.  
*PhD Building Technology*

Sept. 2008: ADINYIRA, Emmanuel.  
Selection of Appropriate Private Operators for Sustainable Water Service Delivery in Small Towns and Rural Communities of Ghana.  
*PhD Building Technology*

### **PhD Supervision in Progress**

Sept. 2023: SULEMAN, Naima Deveila  
Assessing the Relationship between Project Management Team Soft Competencies and Project Success: Mediating Role of Psychological Safety.  
*PhD Procurement Management*

Sept. 2021: EGHAN, Genevieve Ekua  
Integrating Artificial Intelligence (AI) in Performance Assessment of Multi-Storey Office Buildings in Ghana.  
*PhD Construction Management*

Sept. 2019: DANKU, James Cofie  
Quantification of Building Construction Associated Social Costs: An Estimation System for the Ghanaian Construction Industry.  
*PhD Construction Management*

### **PROMOTION OF KNOWLEDGE**

I continue to conduct research and publish high quality journal papers and conference proceedings in my area of specialisation: Construction Project Delivery (Performance and Innovations) within the Ghanaian construction industry. The focus is on procurement, performance measurement and contract administration. A summary of my on-going research and publications, mostly in collaboration with colleagues with similar research interests and research students are highlighted below.

### **ON-GOING RESEARCH**

#### **1. Innovative procurement approaches within the Ghanaian Construction Industry.**

The focus is to explore innovative construction project procurement approaches that can be used within the Ghanaian construction industry. An overview and critique of procurement systems are being undertaken to highlight their innovativeness and also single out key factors for adoption, adaptation and implementation within the Ghanaian Construction.

## 2. Performance measurement and improvement

The study is exploring means through which the performance of the Ghanaian construction can be objective measured. Successful methods used in other jurisdiction are under review to map out key parameters that can be used within the local context. The measurement will lead to the development of a framework and an approach for continuous performance improvement of the industry.

## 3. Alternative contract administration practices.

The continued relevance of retention, advance payment and other methods that can be employed to improve the administration of contracts are being examined. The aim is to highlight the principles underlying these contract administration practices in order to propose more effective and efficient alternative methods or approaches. Results will also assist in capacity building within the local industry.

## RESEARCH VISIBILITY

ORCID: <https://orcid.org/0000-0003-1802-6914>

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=8257221800>

Research Gate: <https://www.researchgate.net/profile/Bk-Baiden>

Google Scholar: <https://scholar.google.com/citations?user=RdgsZNQAAAJ&hl=en&authuser=2>

## PUBLICATIONS

### Book/Book Chapter

1. Gidigah, B.K., Agyekum, K., **Baiden, B.K.** and Edward A. Botchway. (2023). Construction procurement and the sustainable development goals (SDGs). Chapter 16. The Elgar companion to the built environment and the sustainable development goals. Pp: 281 -294
2. Ottou, J.A., **Baiden, B.K.** and Nani, G (2020). Root Causes of Delays in Ghanaian Public Sector Competitive Tendering Process. In: Pokpova, E., Sergi, B., Haabazoka, L. and Regulina, j. (eds) Supporting Inclusive Growth and Sustainable Development in Africa – Volume I. Palgrave Macmillan, Cham. pp201-214. DOI: 10.1007/978-3-030-41979-0\_15
3. Ofori-Kuragu, J.K., **Baiden, B.K.** and Badu, E. (2017). Transforming Construction in Ghana: An Action Agenda for Enabling World-Class Construction and Infrastructure Development for Accelerated Industrialisation, *Project Excellence*, Accra. Ghana: ISBN: 978-9988-2-6571-7

### Journals

1. Nyagormey, J.J., **Baiden, B.K.**, Nani, G. (2025). Critical Analysis of Operating Procedures for Managing Unsolicited Proposals in Public–Private Partnership (PPP): A Systematic Literature Review *Journal of Management Research*, 25(11): 3-26.
2. Gidigah, B.K., Agyekum, K. and **Baiden, B.K.** (2025) "Assessing the critical drivers for integrating social value (SV) into the procurement of construction works". *Journal of Public Procurement*, 25 (2): 256–275.
3. Owusu-Boadi, J., Kissi, E., Adjei-Kumi, T., Owusu, C.D. and **Baiden, B.K.** (2025). " Categorization of Diversity Among Workforce in the Construction Industry: A Systematic Review", *The Ghana Surveyor*, 5(1): 30-45.
4. Abunyewa, Y. B., Kissi, E., Acheamfour, V., **Baiden, B.K.** and Braimah, A. B. (2025). "E-procurement Implementation: the Role of Organisational Culture and Organisational Learning". *International Journal of Procurement Management*, DOI: 10.1504/IJPM.2025.10070414
5. Gidigah, B.K., Agyekum, K. and **Baiden, B.K.** (2024). "Evaluating the Challenges of Implementing Social Value in the Procurement of Construction Works" *Journal of Responsible Production and Consumption*, 1(1): 206-228
6. Owusu-Boadi, J., Kissi, E., Abu, I.M., Owusu, C.D., **Baiden, B.** Eluerkeh, K and Ware, S.N.O. (2024). "Challenges of workforce diversity uptake in the construction industry: a mixed review approach", *Engineering, Construction and Architectural Management*, DOI 10.1108/ECAM-02-2024-0216

7. Manpaya, M., Owusu-Manu, D., Baiden, B.K. and Edwards, D.J. (2024). Supply Chain Reaction to Inflation and Exchange Rate Volatility in Ghana, *International Journal of Economics, Commerce and Management*, 12(8): 1-26.
8. Owusu-Boadi, J., Kissi, E., Abu, I.M., Owusu, C.D., **Baiden, B.** and Debrah, C. (2024). "A bibliometric and scientometric analysis-based review of environmental health and safety research in the construction industry", *Journal of Engineering, Design and Technology*, <https://doi.org/10.1108/JEDT-09-2023-0423>
9. Ottou, J.A., **Baiden, B.K.**, Nani, G. and Tuuli, M.M. (2024). Enhancing performance measurement of public procurement processes through the application of procurement delay index, **HELIYON**, doi: <https://doi.org/10.1016/j.heliyon.2024.e25672>.
10. Debrah, C., Owusu-Manu, D., Amonoo-Parker, L., **Baiden, B.K.**, Oduro-Ofori, E. and Edwards, D.J. (2023). A Factor Analysis of the Key Sustainability Content Underpinning Green Cities Development in Ghana, *International Journal of Construction Management*, 23(14): 2469-2478.
11. Asamoah, R.O., **Baiden, B.K.**, Nani, G. and Kissi, E. (2022): Identifying intangible resources to enhance profitability strategies of Small-Medium Scale Construction Firms (SMSFs) in developing countries, *International Journal of Construction Management*, 22(11): 2207-2214
12. Gidigah, B.K., Agyekum, K. and **Baiden, B.K.** (2022). "Defining social value in the public procurement process for works" *Engineering, Construction and Architectural Management*, 29(6): 2245-2267.
13. Nyagormey, J.J., **Baiden, B.K.**, Nani, G. and Adinyira, E. (2022). Review on Criteria for Evaluating Unsolicited Public-Private Partnership PPP Proposals from 2004 to 2018 *International Journal of Construction Management*, 22(12): 2243-2257.
14. Kissi, E., Agyekum, K. **Baiden, B.K.**, Asamoah, G.E., Badu, B.E. Tannor, R.A. and Badu, E. (2022). Factors Influencing Tender Pricing Strategies of Construction SMEs in Ghana, *International Journal of Construction Management*, 22(3): 387-399.
15. Ottou, J.A., **Baiden, B.K.**, Nani, G. and Tuuli, M.M. (2021). "Benefits of implementing Six Sigma in competitive tendering process", *Built Environment Project and Asset Management*, 11(2): 214-230.
16. Ottou, J.A., **Baiden, B.K.** and Nani, G. (2020). "Six Sigma Project Procurement application in public procurement", *International Journal of Quality & Reliability Management*, 38(2): 646-662.
17. Adinyira, E., Agyekum, K., **Baiden, B.K.**, Ebohon, J.O. and Apretwum, G. (2020). Regeneration of Sub-Saharan Africa's Open Market Places: A Case for Guileless Stakeholder Participation, *Construction Economics and Building*, 20(2): 165-180.
18. Danku, J.C., Adjei-Kumi, T., **Baiden, B.K.** and Agyekum, K. (2020). An Exploratory Study into Social Cost Considerations in Ghanaian Construction Industry. *Journal of Building Construction and Planning Research*, 8 (1):14-29.
19. Asamoah, R.O., **Baiden, B.**, Nani, G. and Kissi, E. (2019). Review of Exogenous Economic Indicators Influencing Construction Industry. *Advances in Civil Engineering*, Vol. 2019, Article ID 6073289, 8 pages
20. Agyekum, K., Adinyira, E., **Baiden, B.K.**, Apretwum, G. and Duah, D. (2019). Barriers to the adoption of green certification of buildings: A thematic analysis of verbatim comments from built environment professionals. *Journal of Engineering, Design and Technology*, 17(5): 1035-1055
21. Kissi, E., Agyekum, K., **Baiden, B.K.**, Tannor, R.A., Asamoah, G.E and Andam, E.T. (2019). Impact of Project Monitoring and Evaluation Practices on Construction Project Success Criteria in Ghana. *Built Environment Project and Asset Management*, 9(3) 364-382.
22. Asman, G.E., Kissi, E., Agyekum, K., **Baiden, B.K.**, Badu, E. (2019). Critical Components of Environmentally Sustainable Buildings Design Practices of Office Buildings in Ghana, *Journal of Building Engineering*, Vol. 26. Article ID 100925. 11pages.
23. Ottou, J., **Baiden, B.K.** and Nani, G. (2019). Gaps in Public Procurement Records Management. *International Journal of Procurement Management*, 12(5): 493-517.

24. Asamoah, R.O., **Baiden, B.K.** and Nani, G. (2019). Towards the Establishment of Relationship between Macroeconomic Indicators and Cost of Public Educational Buildings in Ghana. *Journal of Engineering*, Volume 2019, Article ID 6791401, 7 pages. DOI: 10.1155/2019/6791401.
25. Larbi, B.O., **Baiden, B.K.** and Agyekum, K. (2019). Compliance with Transparency Provisions in Public Procurement Act 2003 (Act 663). *International Journal of Procurement Management*, 12(1): 112-133.
26. Atuahene, B.T., **Baiden, B.K.** and Agyekum, K. (2018). Client – Contractor Relations on Construction Projects. *International Journal of Project Organisation and Management*, 10(4): 333-341.
27. Atuahene, B.T. and **Baiden, B.K.** (2018). Organizational Culture of Ghanaian Construction Organizations. *International Journal of Construction Management*, 18(2): 177-188.
28. Edwards, D.J, Owusu-Manu, D, **Baiden, B.**, Badu, E. and Love, P.E. (2017) Financial Distress and Highway Infrastructure Delays. *Journal of Engineering, Design and Technology*, 15(1): 118-132.
29. Ottou, J.A., **Baiden, B.K.** and Ofori-Kuragu, J.K. (2016). The Use of Six Sigma as a Performance Improvement Strategy in the Construction Industry: New Trends and Applications. *International Journal of Engineering Management Research*, 6(1): 538-546.
30. Ofori-Kuragu, J.K., **Baiden, B.K.** and Badu, E. (2016). Key performance indicators for Project Success in Ghanaian Contractors. *International Journal of Construction Engineering and Management*, 5(1): 1-10.
31. Ofori-Kuragu, J.K., **Baiden, B.K.** and Badu, E. (2016). Critical Success Factors for Ghanaian Contractors. *Benchmarking: An International Journal*, 23(4): 843-865.
32. Ofori-Kuragu, J.K., **Baiden, B.K.** and Badu, E. (2016). Performance Measurement Tools for Ghanaian Contractors. *International Journal of Construction Management*, 16(1): 13-26.
33. Ankomah, E.N, **Baiden, B.K.** and Ofori-Kuragu, J.K. (2015). Lean Techniques Approaches to Managing Ghanaian Contractor Supply Chains. *International Journal of Construction Engineering and Management*, 4(3): 87-94.
34. **Baiden, B.**, Abdul-Razak, S. and Danku, J.C. (2015). Impact of Project Risk Factors on The National Competitive Tendering (NCT) Method of Procurement. *International Journal of Procurement Management*, 8(6): 731-752.
35. Sazoulang, D., Adjei-Kumi, T., Adinyira, E. and **Baiden, B.** (2014). Criteria and Measurable Indicators for Assessing the Performance of Public Works Contract Award Process in Chad. *International Journal of Construction Engineering and Management*, 3(2): 57-64.
36. **Baiden, B.**, Agyekum, K. and Ofori-Kuragu, J. (2014). Perceptions on Barriers to the Use of Burnt Clay Bricks for Housing Construction. *Journal of Construction Engineering*, 2014: 1-7.
37. Ayarkwa, J., **Baiden, B.K.** and Sabah, S.C.B (2014). Consultants' Performance on District Assemblies' Common Fund Projects. *Modern Management Science & Engineering*, 2(1): 43-57.
38. Ayarkwa, J., **Baiden, B.K.** and Osei-Asibey, D (2013). Benefits Derived by District Assemblies from Project Consultants. *Engineering Management Research*, 2(2): 41-50.
39. **Baiden, B.K.** and Price, A.D.F. (2011). The effect of integration on project delivery team effectiveness. *International Journal of Project Management*, 29(2): 129-136.
40. Tuuli, M.M, **Baiden, B.K.** and Badu, E. (2007). Assessment and enforcement of liquidated damages in construction contracts in Ghana. *Journal of Structural Survey*, 25(3/4): 204-219.
41. **Baiden, B.K.**, Price, A.D.F. and Dainty, A.R.J. (2006). The extent of team integration within construction projects. *International Journal of Project Management*, 24(1): 13-23.
42. **Baiden, B.K.**, Badu, E and Menz, F.S. (2005). Exploring the barriers to the use and potential of timber in housing construction in Ghana. *Construction and Building Materials*, 19(5): 347-352.
43. **Baiden, B.K.** and Asante, C.K.O. (2004). Effects of orientation and compaction methods of manufacture on strength properties of sandcrete blocks. *Construction and Building Materials*, 18(10): 717-725.

44. **Baiden, B.K.** and Tuuli, M.M. (2004). Impact of quality control practices in sandcrete blocks production. *ASCE Journal of Architectural Engineering*, 10(2): 53-60.

### Conference Proceedings

1. Owusu-Boadi, J., Kissi, E., Abu, M. I., **Baiden, B.K.** and Owusu-Dapaah, C. (2024). Determinants of Environmental, Health and Safety (EHS) in the Construction Industry. In: Owusu-Manu, D., Adesi, M. and Acheampong, A. (Eds) Proceedings of the 1st International Conference on Environment, Social, Governance and Sustainable Development of Africa (ICESDA-2024), 26-29 March 2024, Kwame Nkrumah University of Science and Technology (KNUST)-Kumasi, Ghana, Green Communities International, 256-264.
2. Gidigah, B.K., Agyekum, K. and **Baiden, B.K.** (2023). A conceptual Framework for Integrating Social Value into Construction Procurement. In: Amos-Abanyie, S., Amoako, C., Adinyira, E., Kwofie, T.E., Agyekum, K., Addy M.N., Ojohwoma., O and Aigbavboa, C. (Eds). Proceeding of the 8th International Conference on Infrastructure Development in Africa, 19-22 November 2023, Kumasi, Ghana.
3. Gidigah, B.K., Agyekum, K. and **Baiden, B.K.** (2023). Assessing socially innovative policies and practices in construction procurement in the built environment: Lessons for Ghana. In: Amos-Abanyie, S., Amoako, C., Adinyira, E., Kwofie, T.E., Agyekum, K., Addy M.N., Ojohwoma., O and Aigbavboa, C. (Eds). Proceeding of the 8th International Conference on Infrastructure Development in Africa, 19-22 November 2023, Kumasi, Ghana.
4. Ottou, J., **Baiden, B.K.** and Nani, G. (2019). Root Causes of Delays in Ghanaian Public Sector Competitive Tendering Process. *Proceedings of the 6th International Conference on Development and Investment in Infrastructure - Strategies for Africa (DII-2019)* Tembo-Silungwe, C., Musonda, I., and Okoro, C (Eds). Livingstone pp 155-163.
5. Ottou, J., **Baiden, B.K.** and Nani, G. (2018). Delays in the Tendering Process of Public Works Procurement in Ghana. *Proceedings of the RICS Construction and Building Research Conference (COBRA 2018), London.*
6. Atuahene, B.T. and **Baiden, B.K.** and Agyekum, K. (2017) Factors Affecting Client-Contractor Relationship in the Ghanaian Construction Industry. *Proceedings of the 6th International Conference on Infrastructure Development in Africa (ICIDA 2017)*. Kumasi pp.62-70
7. Baiden, B.K., Ofori-Kuragu, J.K. and Oti-Sarpong, K. (2016). Application of Liquidated and Ascertained Damages in Small Contracts in the Ghanaian Construction Industry. *Proceedings of the RICS Construction and Building Research Conference (COBRA 2016)*, Toronto.
8. Ottou, J.A., **Baiden, B.K.** and Ofori-Kuragu, J.K. (2016). Improving Construction project Procurement Processes Through Six Sigma. *Proceedings of the RICS Construction and Building Research Conference (COBRA 2016)*, Toronto.
9. Ofori-Kuragu J.K., **Baiden B.**, and Badu E. (2014) Factors affecting Ghanaian contractor performance. *Proceedings of the International Conference of the International Council for Research and Innovation in Building and Construction (CIB W107 2014)* Odusami, K.T., Idoro, G. I., and Ogunlana, S. O. (Eds), Lagos, pp.275-285.
10. Ayarkwa, J., **Baiden, B.K.** and Sabah, C.B.S. (2013). Performance of Consultants on District Assemblies' Common Fund Projects. *Proceedings of the 2nd International Conference on Infrastructure Development in Africa (ICIDA 2013)*, Thwala, W.D and Aigbavboa, C.O. (Eds), Johannesburg.
11. Ayarkwa, J., **Baiden, B.K.**, Osei-Asibey, D and Sabah, C.B.S. (2013). Benefits Derived by District Assemblies from their Project Consultants. *Proceedings of the 2nd International Conference on Infrastructure Development in Africa (ICIDA 2013)*, Thwala, W.D and Aigbavboa, C.O. (Eds), Johannesburg.
12. Acheampong, A., Ayarkwa, J., Adom-Asamoah, M and **Baiden, B.K.** (2013). Comparative Study of the Physical Properties of Palm Kernel Shells Concrete and Normal Weight Concrete in Ghana. *Proceedings of the 2nd International Conference on Infrastructure Development in Africa (ICIDA 2013)*, Thwala, W.D and Aigbavboa, C.O. (Eds), Johannesburg.

13. Ofori-Kuragu, J.K., **Baiden, B.K.** and Edum-Fotwe, F.T. (2010). Benchmarking UK Construction firms Value Added and Productivity performance. *Proceedings of the RICS Construction and Building Research Conference (COBRA 2010)*, RICS (Ed), Paris.
14. Ellis, F and **Baiden, B.K. (2008)**. A conceptual model for conflict management in construction firms. *Proceedings of the CIB W113/RICS Construction and Building Research Conference (COBRA 2008)*, RICS (Ed), Dublin.
15. Ofori-Kuragu, J.K. and **Baiden, B.K. (2008)**. A conceptual benchmarking framework for world-class performance in Ghanaian construction firms. *Proceedings of the RICS Construction and Building Research Conference (COBRA 2008)*, RICS (Ed), Dublin.
16. **Baiden, B.K.**, Price, A.D.F. and Dainty, A.R.J. (2003). Exploring the use of team types for performance improvement. *Proceedings of the 1st Scottish Conference for Postgraduate Researchers of the Built & Natural Environment (PRoBE 2003)*, Egbu, C. & Tong, M.K.L (Ed), Glasgow, pp 99-110.
17. **Baiden, B.K.**, Price, A.D.F. and Dainty, A.R.J. (2003). Looking beyond processes: human factors in team integration. *Proceedings of the 19th Annual Conference of the Association of Researchers in Construction Management (ARCOM 2003)*: Greenwood, D. (Ed), Brighton, pp 233-242.

## UNIVERSITY SERVICE

### Grants for Research and Capacity Building

1. Sponsorship for Women-in-Construction workshop from ANGLOGOLD ASHANTI, SIC COMPANY LTD, STANBIC BANK & ASIB LTD. (2021)  
Forty thousand Ghana cedis (GHS 40,000) US\$6,670
2. INTERNATIONAL FINANCE CORPORATION-KNUST corporate governance capacity building (training of trainers) for staff of KNUST SCHOOL OF BUSINESS. (2016-2017)  
One Hundred Seventy-Seven Thousand Nine Hundred US Dollars (US\$177,900)
3. BEIGE FOUNDATION awards for sixty (60) 2017 KNUST Graduating Class.  
Three hundred thousand Ghana cedis (GHc300,000) US\$75,000 (2017)
4. GCB BANK LTD vehicle (Toyota Hi-Lux) donation to KNUST SCHOOL OF BUSINESS (2017)  
One hundred and fifty-nine thousand Ghana cedis (GHC 159,400) US\$40,000

### Academic

1. Reviewer, KNUST Research Fund (KReF). Oct 2015-Date.
2. Head of Department - Construction Technology and Management. Aug. 2019 to Date.
3. Acting Dean - KNUST School of Business. Aug. 2016 – July 2017.
4. Head of Department - Building Technology. Aug. 2015 – July 2016.
5. Acting Head of Department - Building Technology. Dec. 2014 – Jul. 2015.
6. Coordinator (MSc Construction Management) - Department of Building Technology. Aug. 2014.
7. Coordinator (BSc Construction Technology & Management) - IDL. Aug. 2014.
8. Reviewer - Manuscripts ID 085/10. Journal of Science and Technology. Mar. 2011.
9. Coordinator (Postgraduate Studies) - Department of Building Technology. Jun. 2010 - Nov. 2014.
10. Examinations Officer - Faculty of Architecture and Building Technology. Aug. 2009 - Jun 2010.
11. Examinations Officer - Department of Building Technology. Mar. 2008 - Sept 2012.

### Statutory Committees/Boards (Chairman)

1. Public Lectures Committee. Oct. 2018 – Jul. 2020.
2. Tender Sub-Committee on Works. Sep. 2016 – Jul. 2018.
3. College (CAP) Library Board, KNUST. Oct. 2012 – Jul. 2016.

**Statutory Committees/Boards (Member)**

1. College (CoHSS) Appointments and Promotions Sub-Committee (Cognate). Mar. 2022 – Oct. 2024.
2. School of Graduate Studies Board. Mar. 2022 – Oct. 2022
3. Search Committee for CABE Provost Appointment. Mar. 2019.
4. College of Art and Built Environment Board. Oct. 2017 – Oct. 2022
5. Faculty of Built Environment Board. Oct. 2017 - Date
6. College (CABE) Appointments and Promotions Sub-Committee. Oct 2017 – Jun. 2023.
7. Entity Tender Committee. Dec. 2016 – Jul. 2018.
8. College (CoHSS) Appointments and Promotions Sub-Committee. Aug. 2016 – Jul. 2017.
9. Academic Board (Professorial Representative, CoHSS). Sep. 2016 - Jul. 2017.
10. Review of Two/Three Tier System of the Collegiate System. Feb - Apr. 2014.
11. University Library (College Representative, CAP). Jan. 2011 - Jul 2014.
12. Quality Assurance Sub-Committee (CAP). Feb. 2012 – Jul. 2014.
13. Academic Board (Non-Professorial Representative, CAP). Oct. 2012 – Jul. 2014.
14. College of Architecture and Planning Board, KNUST. Aug. 2008 - Sept. 2010.
15. College of Engineering Board, KNUST (Cognate). Aug. 2008 - Sept. 2010.

**Non- Statutory Committees/Boards (Chairman)**

1. Development of template for theses assessment at KNUST, May 2022
2. Review of Accreditation Document for MPH, KNUST. Aug. 2021
3. Review of Internal Audit DRAFT Manual for KNUST. Jun. 2020
4. Petition Against Mr. Justice Osei-Afriyie of the Dept of Law. Feb.-Mar. 2020
5. Tuition Fees Review for Undergraduate Fee-Paying Students of KSB. Nov/Dec. 2019.
6. Evaluation of Fees for Academic Programmes. Feb.-Jun. 2017.
7. Modalities for Disbursement of Consultancy Proceeds (CABE). May 2016.
8. University Library Budget Review. Apr. 2015.
9. Investigation of Alleged Examination Malpractices (CAP, KNUST). Jan. 2014.
10. Departmental Time-Tabling Committee. Dec. 2013.
11. Affiliation Review, BTech Procurement, Koforidua Polytechnic. Nov. 2010.

**Non-Statutory Committees/Boards (Member)**

1. Search Committee for CABE Provost Appointment. Mar. 2019
2. College (CABE) Appointments and Promotions Sub-Committee. Oct. 2017 - Date.
3. BT-Industry Collaboration. Nov. 2016 – Jul. 2017.
4. College (CABE) Conferences Committee. Nov. 2016.
5. Investigation of Alleged of Examination Malpractices (IDL, KNUST). Apr. 2016.
6. 5<sup>th</sup> Summer School Organising Committee. Mar. - Aug. 2015.
7. Staff Awards Committee, College of Architecture and Planning. Apr. 2015.
8. Investigation of Alleged Examination Malpractices (CAP, KNUST). Oct. 2013.
9. Curriculum Review Committee Department of Building Technology. Jan. 2010.

**Other Services**

1. Scrutineer - Election of Convocation Representatives on University Council. Oct. 2015.
2. Scrutineer - Election of Pro-Vice Chancellor. Nov. 2012, Aug. 2014 & Sept. 2020
3. Scrutineer - Election of Professorial and Non-Professional Members of Council. Nov. 2013.

**NATIONAL/INTERNATIONAL SERVICE**

**Academic**

**1. Journal Review**

- a. Engineering Construction & Architectural Management. Mar 2011-Date.
- b. Journal of Construction in Developing Countries. Oct. 2009-Date.
- c. International Journal of Project Management. Jun. 2010-Date.
- d. Construction Management and Economics. Jun. 2009-Date.
- e. 16<sup>th</sup> ASOCSA Built Environment Conference, South Africa. Apr. 2011.
- f. Construction Management 40 Conference, Port Elizabeth, South Africa. Mar. 2011.
- g. 1<sup>st</sup> & 2<sup>nd</sup> WABER Conference, Ghana. Apr. 2009-Apr. 2010.
- h. 1<sup>st</sup> Postgraduate Research Conference for the Built Environment, Ghana. Jan. 2010.

**2. External Examination/Assessment/ Moderation**

- a. Accra Technical University, Promotion to Associate Professor, Sept. 2025
- b. Accra Technical University, Promotion to Senior Lecturer, Jan. 2025
- c. Kumasi Technical University, Promotion to Associate Professor, Jul. 2022
- d. Koforidua Technical University, Promotion to Associate Professor. Mar. 2022
- e. Cape Coast Technical University, Promotion to Associate Professor. Nov. 2018.
- f. University of Education, Promotion to Senior Lecturer Oct. 2017.
- g. GIMPA, Accra, Promotion to Senior Lecturer. Feb. 2017, Apr. 2019 & Mar. 2021
- h. HND Questions for Accra, Tamale and Takoradi Polytechnics. Apr. 2015.
- i. National Board for Professional and Technical Examinations. Apr. 2015.
- j. Accreditation of HND Building Technology, Ho Polytechnic, Ho. Oct. 2014.
- k. Construction Technology & Management - Pentecost University, Accra. Jun. 2014.
- l. Construction Technology - Accra, Tamale & Takoradi Polytechnics. May 2010.
- m. Kumasi Polytechnic, Promotion to Senior Lecturer. (2 candidates). Apr. 2014.
- n. Accreditation of BSc QSCE & CTM, Technical University College, Tamale. Aug. 2013.

**Committees/Boards (Chairman)**

1. Gallery Project Committee, Calvary Charismatic Centre, Kumasi, Jan 2026 - Date
2. Organising Committee, RGCK Centenary Celebration, Kumasi. Jul. - Nov. 2021.
3. Organising Committee, Stanbic-Otumfuo Invitational Golf, 2017 - 2019.
4. Planning Committee, Vodafone 60<sup>th</sup> - 65<sup>th</sup> Asantehene Open, 2017 - 2022
5. Board of Directors, Heritage Events, Accra. Jun. 2017 - Date.
6. Membership Board, Ghana Institute of Construction. May 2016 - Date.
7. Planning of Otumfuo's 60<sup>th</sup> Birthday Golf Tournament. Apr. - May 2010.

**Committees/Boards (Member)**

1. Planning Committee, 20<sup>th</sup> Coronation Anniversary of Asantehene. Mar. - May 2019
2. Governing Council, University College of Management Studies. Aug. 2018 - Jul. 2020

3. Board of Trustees - Our Aim Foundation, Accra. Aug. 2017 - Date.
4. Management Committee (Operations), Royal Golf Club, Kumasi. Feb. 2017 - Date.
5. PTA Executive Committee, Wesley Girls' High School, Cape Coast, Jan. 2016 - Jun 2019.
6. Finance Committee, Ghana Institute of Construction. May 2016 – Dec. 2022.
7. Executive Committee (Captain), Royal Golf Club, Kumasi, Ghana. Jan - Dec. 2015.
8. Executive Committee (Treasurer), Royal Golf Club, Kumasi, Ghana. Jan - Dec. 2009.

#### **Other Services**

1. President (Board Chair), Deprived Community Aid, Tema. May 2019 - Date.
2. Head of Operations (CEO), Royal Golf Club, Kumasi, Ghana. Feb. 2017 - Date.
3. Captain (CEO), Royal Golf Club, Kumasi, Ghana. Jan. 2015 – Mar. 2016.
4. Resource Person - Mfantsipim 140<sup>th</sup> Anniversary Panel Discussion. Aug. 2016.
5. External Supervisor (PhD) Texila American University, Georgetown, Guyana. Jun. 2016 – Sept. 2017

#### **REFEREES**

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SIGNATURE: 