**COLLEGE OF POSTGRADUATE STUDIES**

**NNAMDI AZIKIWE UNIVERSITY**

**AWKA**

**PROFILING OF POSTGRADUATE SUPERVISORS**

**List of Potential Supervisors (According to Faculty & Department)**

1. **FACULTY OF ENGINEERING**
2. **Department of Agricultural and Bioresources Engineering**

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| **S/N** | **Potential Supervisor** | **Rank** | **Research Expertise and Interests** | **Programme Approved to Supervise** | **Ten Key Publications**  **in Specialty Area(s)** | **E-mail**  **(UNIZIK only)** |
| 1. | Amaefule, Desmond Okechukwu | Senior Lecturer | Machine Design; Agricultural and Bioresources Mechanization; Engineering Management; Engineering Economics; Renewable Energy: System Modeling; Ergonomics | PGD & Masters | 1. Nwabanne J. T. and **Amaefule D.O.** (2009). Pyrolysis of rice husks using locally fabricated pyrolysis plant. ANACHEM Journal 4(1): 707-714.  2. Okonkwo J. C., **Amaefule D.O.** and Egu E. N. (2010). Relationship Between Body Weight and Other Biometric Characteristics of The Nigerian Goat Breeds. Int. J of Animal Sc. 2(2): 102-106.  3. Ezeonu S. O., **Amaefule D.O.** and Okonkwo G. N. (2013). Construction and Testing of Ultrasonic and Sonic Bird Repeller. J of Natural Sc. Res. 2(9): 8-17.  4. Chukwuma E. C., Orakwe L. C., Anizoba D. C., **Amaefule D. O.**, Odoh C. C. and Nzediegwu C. (2015). Geo-Electric Groundwater Vulnerability Assessment of Overburden Aquifers At Awka In Anambra State, South-Eastern Nigeria. European J of Biotech. and Biosciences 3(1): 29-34.  5. Nwajinka C. O., Onuegbu C. U. and **Amaefule D. O.** (2017). Emperical Study of The Characteristics of *Afzelia africana* Seed Under Compressive Loading. Nig. J of Techn. (NIJOTECH) 36(3): 973-978.  6. **Amaefule D. O.**, Oluka S. I. and Nwuba E. I. U. (2018). A Machinery Capacity Selection Model for Tillage Operations In Nigeria. J of Engr’g and Applied Sc. (JEAS) 14(1) 1-12.  7. **Amaefule D. O.**, Oluka S. I. and Nwuba E. I. U. (2018). Tillage Machinery Selection Model for Combined Non-Contiguous Farms. JEAS 14(1): 13-25.  8. **Amaefule D.O.**, Nwajinka C. O. and Matthias B. A. (2019). Driving Rural Development Through Mechanized Farming Ventures; A Nigerian Case Study. Int J Appl Sci Engr Vol 7 No 2 pp 54-58.  9.Nwajinka C. O., Okonjo, E. O., **Amaefule D. O.** and Okpala, C. D. (2020). Effects of Microwave Power and Slice Thickness on Fiber and Ash Contents of Dried Sweet Potato (*Ipomoea batata*). NIJOTECH Vol 39 No 3 pp 932-941.  10. Mbegbu N. N., Nwajinka C. O. and **Amaefule D. O.** (2021). Thin Layer Drying Models and Characteristics of Scent Leaves (Ocimum gratissimum) and Lemon Basil Leaves (Ocimum africanum). Heliyon 7(1) <https://doi.org/10.1016/j.heliyon.2021.e05945>  11. Ohagwu C. J., Nwakaire J. N., **Amaefule** **D. O.**, Nwaezeh C. D. and Anyanwu C. N. (2021). Physico-mechanical and fuel properties of sawdust briquettes using *Abelmoschus esculentus* waste as a binder. Agricultural Engineering International: CIGR Journal (Accepted Paper; In Print). | da.amaefule@unizik.edu.ng |
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