

Ms.Jackline Mwende Mutunga Academic Staff Profile

Personal Profile

Personal Details

Name: Jackline Mwende Mutunga
Title/Qualification: Ms
Department: Mechanical Engineering
Designation/Position: Tutorial Fellow
Email: mutunga.jackline@ku.ac.ke
Contact Address: 43844-00100, Nairobi, Kenya
Area of Specialization: Engineering
Thermodynamics
Research Interests: Renewable Energies,
Process Optimization
Google Scholar: JM Mutunga
ORCID ID: <https://orcid.org/0000-0003-0437-247X>



Academic & Professional Qualifications

- MSc. Mechanical Engineering, Pan African University Institute for Basic Sciences Technology and Innovation (PAUSTI).
- BSc. Mechanical Engineering, Jomo Kenyatta University of Agriculture and Technology (JKUAT).

Referred Journals

1. Bardi M. J., Mutunga J. M., Ndiritu H., Koch K. (2023). Effect of pyrolysis temperature on the physiochemical properties of biochar and its potential use in anaerobic digestion: A critical review", *Environmental Technology & Innovation*, Volume 32,2023
2. Mutunga, J. M., Kimotho. J. K., & Muchiri, P. (2020). Health-Index Based Prognostics for a Turbofan Engine using Ensemble of Machine Learning Algorithms. *Journal of Sustainable Research in Engineering*, 5(2), 50-61.
3. Mutunga J.M, Ndiritu H.M, Hawi M, Oketch P. (2022). Technologies for Biogas Upgrading to Biomethane: A Review. *Proceedings of the Sustainable Research & Innovation (SRI) Conference*, 122-128
4. Mutunga, J. M., Kimotho. J. K., & Muchiri, P. (2019). Estimating the Remaining Useful Lifetime of a Turbofan Engine using Ensemble of Machine Learning Algorithms. *Proceedings of the Sustainable Research & Innovation (SRI) Conference*.

Conferenced/Workshops/Seminars Attended

Conferences Attended

1. Presenter; Technical University of Munich SEED Centre Symposium 4-8 September 2023: Sustainable Energies, Entrepreneurship and Development.
2. Presenter; International Sustainable Research and Innovation (SRI) Conference (2022, 2019), Jomo Kenyatta University of Agriculture and Technology, Kenya.
3. Participant; International Sustainable Research and Innovation (SRI) Conference (2021), Jomo Kenyatta University of Agriculture and Technology, Kenya.

4. Presenter; 50th Annual Conference of the Operations Research Society of South Africa (ORSSA) in collaboration with the African Federation of Operations Research Societies (AFROS), North-West University in Potchefstroom, South Africa.
5. Presenter; TUM SEED Centre Symposium 8-10 Dec 2021: Sustainable Energies, Entrepreneurship and Development.

Workshops Attended

1. Student Training for Entrepreneurial Promotion (STEP) Training of Trainers (ToT) under the Collaboration for Entrepreneurial Universities (CEPU) Project to be held from 9th to 12th August 2021.

Affiliation of Professional Bodies

- Engineers Board of Kenya (EBK) – Graduate Member (B11786)
- The Institution of Engineers of Kenya (IEK) – Graduate Member (G.9878)