

## Global Health Engineering - Projects

PhD, MSc and BSc Projects in 2021 and 2022

Project Title		Thematic Area	Country
MSc			
Semester Project	The state of Open Research Data practices and policies in the Engineering Sciences	NA	Switzerland
Semester Project	Energy production of Black Soldier Fly Larvae: Measuring the temperature increase in air induced by Black Soldier Flies throughout their larval stages	Organic Waste	Switzerland
Semester Project	Design and Validation of a Thermal Disinfection Unit for Wastewater using Biogas in Humanitarian Crisis Situations	Human Waste	Kenya
Semester Project	Investigating the Optimization Potential of Brick Clamps in Malawi - Thermal efficiency analysis and perspectives of brickmakers	NA	Malawi
Semester Project	Examination of non-recycled marine plastic litter in order to identify recycling and beneficiation pathways in Durban, South Africa	Anthropogenic Waste	South Africa
Semester Project	Bin it - Pilot design of an AHP waste collection model for informal settlements in South Africa	Anthropogenic Waste	South Africa
Semester Project	Humanitarian Sanitation Solution - Design and validation of a thermal disinfection unit for wastewater using Biogas for humanitarian crisis situations	NA	Kenya
Semester Project	Optimization of solid waste collections in Blantyre, Malawi	NA	Malawi
Thesis	Effect of fruit and vegetable waste in anaerobic digestion using faecal sludge as primary feedstock	Organic Waste	NA
Thesis	Suitability of the Modified Bardenpho process for faecal sludge treatment in Kumasi, Ghana	Human Waste	Ghana
Thesis	Thermal analysis and optimization potential of traditional brick clamps in Malawi	NA	Malawi
Thesis	Evaluating the potential Extended Producer Responsibility returns for plastic-packaging riverine waste in Durban, South Africa	Anthropogenic Waste	South Africa

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Thesis	Relationship Between Solid Waste Generation And Extent Of Burning In Urban Blantyre Households, A Case Of Ndirande.	NA	Malawi
Thesis	Barriers to successful data management in the Global South - Case Study of Malawi	NA	Malawi
BSc			
Thesis	Feasibility of Waste Maize Husk Valorization as a Plastic Plate Replacement in Durban, South Africa	Organic Waste	South Africa
Thesis	Low-cost compost screening technology to improve trash separation	Organic Waste	Switzerland
Thesis	The Development of a Recycled Plastic Wheel for Cardboard Collector Trollies - Improving the working conditions of informal cardboard recyclers in Durban, South Africa	Anthropogenic Waste	South Africa
Thesis	Improving Market Wash Stations Through Creative and Contextual Design in Durban, South Africa.	Human Waste	South Africa
PhD			
Thesis	Evaluating a case of closed-loop plastic recycling in Malawi	Anthropogenic Waste	Malawi
Thesis	Extent and markers of open waste burning	Anthropogenic and Organic Waste	Malawi
Thesis	How biogas failed to light up a continent: why the most promising technology never spread across Africa.	Organic Waste	Malawi