



African Biomedical Engineering Consortium

Innovation through Education

ABEC DESIGN COMPETITION 2020 – FIRST STAGE RESULTS

#	Institution	Project Title	Project Leader	Results
1	University of Ibadan	Development of Multidirectional Mosquito Electric Barrier	John Omokayode	Eligible
2	Makerere University	KAINOS Blood Pressure Monitoring Device- Management of Hypertension in Pregnancy in Developing Countries	Lynette Kicoonco Mutungi	Eligible
3	Kenyatta University	Cheap Smart Intravenous (IV) Monitoring System	Daniel Kabugi (Ndirangu)	Eligible
4	Technical University of Mombasa	Reusable Face Masks	Nyambedha Clifford	Eligible
5	Kenyatta University	Breast Cancer Detection	Ashtone Onyango	Eligible
6	University of Malawi-The Polytechnic (UNIMA-POLY)	Low cost ventilator (AMBU_VENT)	Joy Khonje	Eligible
7	Lagos University Teaching Hospital	Computer based Application for Diagnosis and Prediction of Stroke	Tulowanmi Mojalagbe	Eligible
8	Technical University of Mombasa	Artificial Intelligence Software For Analyzing Chest Xray And CT Images For Detecting Covid19 And Viral Pneumonia	Jim Muriungi Gitonga	Eligible
9	Kenyatta University	Device for Early Cataract Detection	Isaac Owino	Eligible
10	Jimma University	Automated Early Breast Cancer Detection, Screening, and Classification on thermography principle	Girmaw Yeshiwas	Eligible
11	Ernest Cook Ultrasound Research and Education Institute (ECUREI)	An automatic self-inflating resuscitation bag used in the emergency care in low and middle income countries	Phiona Nannungi	Eligible
12	University of Lagos	Low-Cost IoT Based Wearable Heart Attack Detector for Emergency Rescue	Charles Osuagwu	Eligible
13	Kenyatta University	Electrodermal Activity Measurement for Diagnoses of Psychopathologies	Stacy Kifworo	Eligible
14	Kenyatta University	Stationary Bicycle Kit	Rehema Kerubo (Ongwae)	Eligible

15	Kenyatta University	Low Cost Electronic Spirometer	Rehema Kerubo (Ongwae)	Eligible
16	Malawi University of Science and Technology	Simple Ballard Training Model Assessment App	Racheal Nyanda	Eligible
17	Technical University of Mombasa	Building A Software For Detecting Early Alzheimer's From MRI Data Scans Using Artificial Intelligence (SVM & AdaBoost)	Jim Muriungi Gitonga	Eligible
18	Jimma University	Waleign (Body Electrolyte Analyzer)	Roza Alemayehu Teklu	Eligible
19	Kenyatta University	Remote Health Monitoring Device.	Christine were	Eligible
20	Kenyatta University	Suckling Enabler	Diana Nduta	Eligible
21	Université des Montagnes	Design of a Smart Stethoscope Coupled With Diagnostic Assistance Software	Kamga Alban Loique	Eligible
22	University of ELDORET	Designing and construction of an automatic flush toilet	Kevin Ogoro Mong'oni	Eligible
23	Kenyatta University	Affordable Adjustable Hand-Posture Correcting Wrist Orthotics	Steve Ogeto (Kinaro)	Eligible
24	University of Ibadan	Development of an Ayo game using Braille System	Goodness Dare	Eligible
25	Kenyatta University	Virtual Doctor Mobile Application for NCD-based Healthy Lifestyle Advisory	Susan Gitau	Eligible
26	University of Pisa	M. A. T. E. – Mobile App using Token Economy approach	A. Nocera	Eligible
27	Kenyatta University	Wearable Atrial Fibrillation Monitoring Device	Raphael Muiruri	Eligible
28	Universidad Politécnica de Madrid	Multifunctional Surgical Kit for 3D printing	Irene Escudero Ramirez	Eligible
29	Technical University of Mombasa	Early Heart Attack Detector	Nyambedha Clifford	Eligible
30	University of Lagos	Functionally Improved Glucometer	Wilfred Dieke	Eligible
31	Kenyatta University	Tackling NCDs with Smart Portable Fitness Pack	Steve Ogeto (Kinaro)	Eligible
32	Makerere University	Non-Invasive Electrical Brain Simulation to Ameliorate Neurophycatric & Neurodegenerative NCDs	Nyonyintono John Peter	Eligible
33	Addis Ababa University	Insulin pumps with hypoglycemia suspension	Robele Gemechu	Eligible
34	Kenyatta University	Stroke Detector	Raphael Muiruri	Eligible

35	Malawi University of Science and Technology	Automated, Portable blood transport box	Jonathan Mhango	Eligible
36	Kenyatta University	Intelligent Pregnancy Monitoring System	Cynthia Thuo	Eligible
37	Ernest Cook Ultrasound Research and Education Institute (ECUREI)	A Toddlers Safety Mobile App Controlled Monitoring System_Manano	Milton Mcmoth Manano	Eligible
38	Kenyatta University	Combating Cancer Spread in Africa	Felix Shadrack	Eligible
39	Malawi University of Science and Technology	Insulin Storage System with UV Disinfection Unit for Syringes and Needles	Maureen Valle	Eligible
40	Technical University of Mombasa	Portable Modern Patient Monitoring and Massage Computed Medical Device	Okiring Peter	Eligible
41	Malawi University of Science and Technology	Digital Pressure Monitoring Medical Device	Dumisani Namakhwa	Eligible
42	Kenyatta University	An inexpensive smart blind stick	Sing'oei Stella	Eligible
43	Kenyatta University	Personalised dosing frequency through plasma drug monitoring	Benard Njogu (Karanja)	Eligible
44	Addis Ababa University	Wearable Electromechanical Bimanual Uterine Compressor for Postpartum Haemorrhage	Habtemariam Mekuriaw	Eligible
45	Muhimbili University of Health and Allied Sciences	Artificial Intelligence (AI) in a Cost-effective Way to Detect Heart Failure Before Occurrences.	Simon Silinu	Eligible
46	Technical University of Mombasa	Early Heart Attack Detector	Nyambedha Clifford	Not Eligible
47	Malawi University of Science and Technology	Cancer Diagnostic Application	Jonathan Mhango	Not Eligible
48	Technical University of Mombasa	Compound Computed Blood Analyser		Not Eligible