



African Biomedical Engineering Consortium

Innovation through Education

ABEC Design Competition 2019 - Second stage results

#	Title	University	Name	Result
1	Design of a Low-Cost Monitoring Machine	Malawi University of Science and Technology	Ananias Cyrus Zulu	Eligible
2	A mobile device-based application to improve the outcomes of surgical procedures among patients requiring emergency blood transfusion in resource	University of Cape Town	Emmanuel Kamuhire	Eligible
3	Detection System of Surgical Sponges during Surgery	University of Pisa	Florinda Coro	Eligible
4	Designing a Low Cost Nuchal Cord Detector with Fetal Heartrate Monitor	Malawi University of Science and Technology	Mwayi Yelewa	Eligible
5	Sleep Apnea and Pulse Rate Integrated Transport Infant Incubator	Addis Ababa University	Henok Gebremedhin	Eligible
6	Whole Blood Auto Transfusion	Makerere University	Nyonyontono John Peter	Eligible
7	Obstetric Fistula - Fiskik	Makerere University	Lynette Kicoonco Mutungi	Eligible
8	3D Printed Laryngoscope and Surgical Instruments for Trachea Intubation	Universidad Politecnica de Madrid	Nuria Díez Navarro	Eligible
9	A NONINVASIVE ACUTE BLOOD LOSS DETECTION DEVICE	University of Cape Town	Adam Chileshe	Eligible
10	Automatic and Portable Birth Stool for a Squatting Positions Birth	University of Pisa	G. Gnazzo	Eligible
11	Standing framework for kids aimed at rehabilitation after surgery	Universidad Politecnica de Madrid	Adrián Martínez	Eligible
12	MKeeper – Global Technology Innovation in Obstetrics	University of Lisbon	Ana Catarina Lourenço	Eligible
13	OBSTETRIC DIGITAL VACUUM EXTRACTOR	University of Pisa	Mafalda Rosa	Eligible
14	NEO2: An Oxygen-Delivery Device for Individualized Care in Low Resource Settings	Columbia University	Yiela Saperstein	Eligible
15	Estimation of blood loss in women after birth using a re-usable calibrated drape with a sensor	Ernest Cook Ultrasound Research & Education Institute	Phiona Nannungi	Eligible
16	Varicose Veins Prevention Device for Pregnant Women	Kenyatta University	Susan Gitau	Eligible
17	Wearable Device Based Fetal and Maternal Heart Rate Monitoring System	Mbarara University of Science and Technology	Matiwos Tekalign	Eligible
18	CORAX: life box to create a sterile environment for preventing children infections	University of Bologna	Caterina Giuliani	Eligible
19	Intrapartum ambulatory foetal monitor	Makerere University	Stephen Tashobya	Eligible
20	Design of an autonomous system of air and surface disinfection of the operating theater	Université des Montagnes	Djemi Nguoupeyou Yvan	Eligible
21	Spine Surgery Simulator	Universidad Politecnica de Madrid	Verónica Palomino Díaz	Eligible
22	Ground Reaction Force Based Active Ankle Foot Orthotic	Addis Ababa University	Tewbesta Getachew	Eligible
23	Development of a surgical data management system to monitor volumes and outcomes of surgical	University of Cape Town	Martin Kiwanuka	Eligible
24	Digitalized postpartum hemorrhage management device	Jimma University	Derartu Dereje	Eligible
25	Design of Handheld Smart Device for Detecting Retained Surgical Items	University of Lagos	Charles Osuagwu	Eligible
26	Livix – Global Technology Innovation in Surgery	University of Lisbon	Ana Catarina Lourenço	Eligible
27	A Low-Cost Incinerator Powered Autoclave for Sterilization of Surgical Instruments in Low-Income Countries	Makerere University	Nancy Bedayika	Eligible
28	Portable Ultrasound System for Image-Aided Anesthesiology	Universidad Politecnica de Madrid	Carlos Aguilar Vega	Eligible
29	Phototherapy Vest for Neonatal Jaundice	University of Warwick	Mahir Taher	Eligible
30	Smart Ante-natal Care Handbook	Kenyatta University	Lewis Kamindu	Eligible
31	Automatic Anesthesia Controller (AAC) injection system using Heart Beat Sensor	Technical University of Mombasa	Jim Gitonga	Eligible
32	Integrated System Of Preventive Mask With Monitoring Watch	Jimma University	Yehualashet Adise	Eligible
33	MASSAGE BELT TO AID IN POST-PARTUM HAEMORRHAGE MANAGEMENT	Kenyatta University	Bonface Karanja	Eligible
34	A Smart MedBox Cooler	University of Lagos	Wilfred Dieke	Eligible
35	A Mobile Communication Aid To Reduce Obstetric Surgery Delay In Developing Countries	Mbarara University of Science and Technology	Collins Amanyire	Eligible
36	Electrosurgery for the treatment of condylomas as cancer precursors in cases of HPV	Politecnico di Torino	Vito D'Orazio	Eligible
37	A cost effective UVC Infection Control Device in Operation Theatre	Ernest Cook Ultrasound Research & Education Institute	Milton Mcmoth Manano	Eligible
38	Life Recharging	Politecnico di Torino	Elisa Bendanti	Eligible
39	IseeU - A Pain Monitoring System	University of Porto	Cristiana Carpinteiro	Eligible
40	Surgical separator for field hospitals using a 3D printer.	Universidad Politecnica de Madrid	Sonia Martín Mozas	Eligible
41	AN AUTOMATIC ANAESTHESIA INJECTOR SYSTEM	Technical University of Mombasa	Gilbert Chesoi	Non eligible
42	Enhancement of Transplant Service Management System by Web Based Central Database Managing Waiting List and Organ Allocation	Addis Ababa University	Chernet Mequanent	Non eligible
43	Feelsalama: An Emergency Kit for Surgery	University of Eldoret	Benson Kagiri	Non eligible
44	Designing a probe sensor system for monitoring of the cervical dilation of a pregnant woman	Malawi University of Science and Technology	Peter Amos Lettas	Non eligible
45	A PORTABLE FETAL BIOPHYSICAL PROFILE DEVICE	Ernest Cook Ultrasound Research & Education Institute	SAUL MUGABI	Non eligible
46	SALUTEM – Automating ISBAR Assessment in the Learning Environment	University of Porto	Gabriel Lopes	Non eligible
47	Improvement on heart valves	Mbarara University of Science and Technology	BONNY MATSIKO	Non eligible
48	Design of Pre-eclampsia Detector Device	Malawi University of Science and Technology	Jonathan Mhango	Non eligible