

Biomedical Engineering & Technology Innovation Centre (BETiC)

Biomedical Engineering & Technology Innovation Centre was established in 2014 at IITB Mumbai to bring doctors, researchers, entrepreneurs and investors together for medical device innovation. The initiative is supported by Rajiv Gandhi Science and Technology Commission, Mumbai. DST, New Delhi is also extending support. Two satellite centers were set up at COE Pune and VNIT Nagpur, followed by self-supported BETiC cells in four engineering colleges (KJSCE Mumbai, MIT-ADT Pune, SIU Pune, and GHRCE Nagpur) and seven in medical institutes (HITRT Mumbai, GMC & JJH Mumbai, MGMIHS Sanpada, BJMC Pune, DMIMS Wardha and BKLWRH Dervan), making it the largest such network in the country. About 75 doctors and industry experts are associated with the project.

Features of the BETiC Program:

- A unique model of collaborative innovation involving doctors, researchers, entrepreneurs and investors.
- In the last 5 years, BETiC team gathered over 400 unmet clinical needs from different hospitals.
- Developed proof-of-concepts of 200 different medical devices in close collaboration with expert doctors.
- Filed 55 patents.
- Wide range of products have been developed which include screening & diagnostic devices; surgical instruments; implants, prostheses and assistive devices.
- **Incubated 16 start-up companies so far.**

Technologies Developed:

Sr. No	Devices	Transferred to
1	Orthopedic Surgery Planner	Algosurg 2016
2	Smart Stethoscope Module	Ayu Devices 2017
3	Hybrid Plaster Splint	MediAsha Technologies 2017
4	Skin Spray Gun	Pacify Medical Technology 2018
5	Temporal Bone Phantom	NU Ossa Mediquip 2018
6	DICUL AM (Lucid Implants	Craniofacial & Neuro Implants 2018
7	DiaBETIC Foot Screener	Ayati Devices 2019
8	Endotracheal Blockage Detector	Atmen Technovention 2019
9	Knee Ankle Foot Orthosis	Aumeesh Tech 2019

10	10 Glaucoma Screening	OKO Icare Solutions Pvt Ltd 2019
11	Surgical Guides	Precisurg 2019
12	Jaw Centric Relation	Prosthocentric 2019
13	Menstrual Cup	Care Form Labs 2020
14	Portable Sterile Enclosure	MEDGHYOR 2020
15	Auto Suturing Device	Denovo Bioinnovations 2020
16	Dental Bur	Aur Innovations 2020



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