



Issue #3

THE NEWS

IVE - Kenyatta University

CDIE SUMMER PROGRAM 2025

SPOTLIGHT!

The Medical Device Innovation Summer Program successfully concluded, offering participants a rigorous, hands-on journey through the full cycle of medical device development—from needs identification to working prototypes.

Hosted at the Centre for Design, Innovation, and Engineering (CDIE), the program ran from June 3 to June 21, 2025, bringing together an inaugural cohort of 16 participants from Kenya and Uganda. This dynamic group included engineers and clinicians selected for their creativity, technical expertise, and dedication to solving real-world healthcare challenges.

Highlights from the program:

- ◆ Week 1 focused on foundational skills—covering the Kenyan healthcare system, brainstorming techniques, safety training, 3D printing, woodworking, metalwork, and embedded systems.
- ◆ Week 2 featured clinical immersions at Thika Level 5 Hospital, Kiambu Level 5 Hospital, and Kenyatta University Teaching, Referral & Research Hospital, alongside industry visits to [Villgro Africa](#), MOKO, and informal manufacturing hubs. Participants gained real-world insights, identified unmet needs, and cultivated deep empathy with end users.
- ◆ Week 3 was dedicated to design execution. Teams synthesized their learnings into functional prototypes, culminating in final presentations evaluated by a panel of judges.

The program also welcomed visiting faculty [Casey Howard](#) and [Dr. Kiara Lee \(PhD\)](#) from [Rice University](#), and leveraged best practices from engagements with institutions such as [Massachusetts Institute of Technology \(MIT\)](#) and [Boston College](#).





The summer programme has been very eye opening for me, being fresh into the health care field. I've gained so much insight on the health care system in Kenya and how best to solve problems affecting u

It's was indulging, fun, I networked with brilliant young innovators, learnt a lot from the tutors....it was just IT!

It has a unique component of interdisciplinary collaboration that make uts easy to learn from each other.

Everything was well organized and well thought of..Hats off.

*Classic CDIE Execution
Flawless Delivery!*

CDIE Hosts Innovation Hackathon in Collaboration with Boston College

In an inspiring cross-institutional partnership, Centre for Design Innovation and Engineering (CDIE) proudly hosted a high-impact student hackathon from May 2-5, 2025, bringing together innovators from across the globe.

They welcomed participants from the Institute of Peace and Security Studies at Garissa University. The event was facilitated through Boston College in collaboration with the School of Engineering - Electrical and Electronics Department.

The four-day hackathon focused on building capacity in human-centered design and healthcare innovation.



MedTech Connect Series

Operating Instructions: Gather innovators, add expert facilitators, mix thoroughly with practical learning.

Warning: May cause sudden urges to file patents.

Episode 1

MedTech Connect IP Workshop Equips Innovators with Tools for Protection and Growth

In collaboration with [MEDevice Africa](#), we hosted a highly engaging Medtech Connect Intellectual Property (IP) Workshop aimed at strengthening the capacity of local innovators to safeguard and commercialize their ideas.

The event brought together participants from academia, industry, and innovation spaces for a practical learning session on Intellectual Property in MedTech. The workshop covered critical areas such as:

- The role of IP protection in advancing medical technology
- The step-by-step process of IP registration in Kenya.
- Common pitfalls faced by innovators and how to avoid them.

This initiative aligns with IVE's commitment to equipping the next generation of MedTech leaders with both the technical and strategic tools



Episode 2

Academic Roundtable Sparks Collaborative Vision for MedTech Innovation

Invention Education – Kenyatta University joined leading institutions in a pivotal Collaboration with Academia Roundtable focused on advancing the MedTech innovation agenda through strategic academic partnerships.

Held under the umbrella of the [Kenya Network for Innovation and Entrepreneurship in Learning \(KNEIL\)](#), the roundtable brought together universities, hospitals, government agencies, and innovation stakeholders to explore the role of academia in transforming research into real-world healthcare solutions.

This roundtable set the stage for a longer-term agenda: building communities of practice, mapping Kenya's MedTech ecosystem, and fostering partnerships that translate academic research into meaningful health outcomes.



Critical Case Study

Patient:- Kenya's MedTech Education.

Diagnosis:- Chronic Capacity Gap.

Treatment:- Master's in Medical Device Innovation.

Status:- Senate Approved, CUE Pending.

Prognosis:- Excellent with January 2026 Enrollment.

Kenyatta University Set to Launch Master's Program in Medical Device Innovation (MDI)

The Kenyatta University Senate has approved the Master's Program in Medical Device Innovation (MDI), marking a significant milestone in advancing medical technology (MedTech) education in Kenya and the region. The program is now pending final accreditation by the Commission for University Education (CUE), after which final preparations for its official launch will proceed in full.

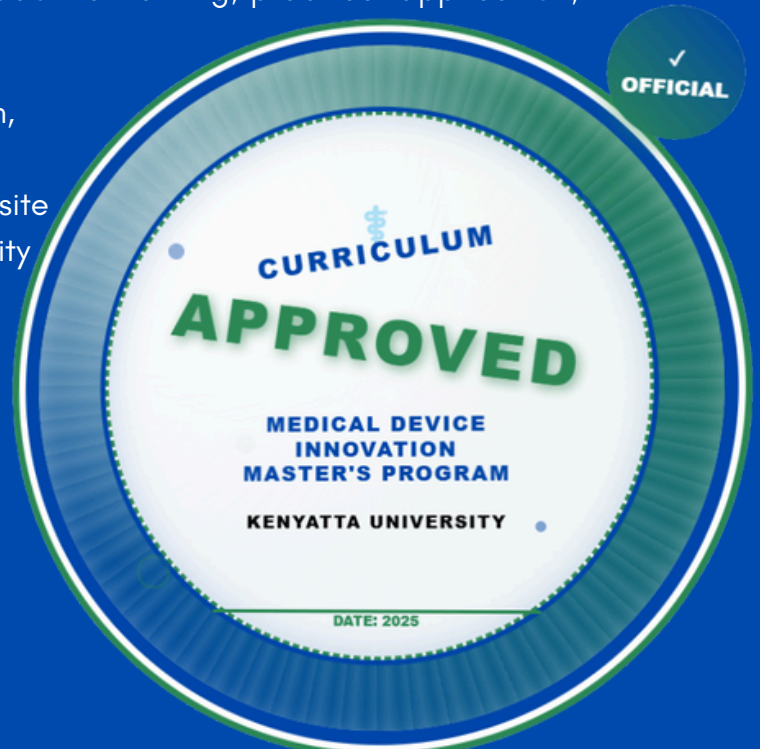
The MDI program is designed to equip students with multidisciplinary skills in biomedical engineering, clinical immersion, design thinking, health systems, and product development. The curriculum integrates academic rigor with industry relevance, preparing graduates to design, develop, and deliver context-appropriate medical technologies.

Subject to CUE approval, the first cohort is expected to enroll in January 2026. This upcoming launch affirms Kenyatta University's commitment to strengthening health innovation ecosystems through structured academic training, practical application, and research.

For more program details, curriculum information, and all about Centre for Design, Innovation and Engineering (CDIE) visit our newly launched website where all Invention Education - Kenyatta University resources are now available.



[Msc Biomedical Engineering -
Medical Device Innovation](#)



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Partnership Pulse Check

IvE Team Visits Revital Healthcare for Strategic Partnership

The Invention Education (IvE) project Management team recently conducted a strategic visit to Revital Healthcare EPZ Ltd in Mombasa, one of Africa's leading manufacturers of medical supplies and diagnostic products. The purpose of the visit was to initiate a formal partnership through a Memorandum of Understanding (MoU) that will support the growth and impact of the Master's in Medical Device Innovation (MDI) program at Kenyatta University.

The proposed partnership seeks to create pathways for internships, industrial exposure, and collaborative project opportunities for students enrolled in the MDI program. It will also open doors for knowledge exchange, mentorship, and potential co-development of medical technologies aligned with Kenya's healthcare priorities.



The IvE Summer Program stands as a model for interdisciplinary, Africa-centered innovation in MedTech.

STACY AWINJA

Episode 3 Medtech Stakeholders Connect

With Medevice, we convened 51 stakeholders across universities, corporates, hubs, funders, startups, healthcare providers, the Medtech market, and government agencies for the MedTech Stakeholders Connect.

The forum focused on strengthening Africa's MedTech ecosystem through collaboration, innovation, and aligning biomedical education with real-world industry needs.

Key discussions included:

1. Building stronger bridges between startups, academia, and corporations.
2. Streamlining regulatory processes to support local innovation and manufacturing.
3. Including practical healthcare challenges in biomedical engineering training.
4. Defining what makes graduates truly ready for the MedTech market.

The event highlighted the urgency and opportunity to develop an environment where local innovations can thrive, from ideation to market adoption.

We are grateful to all participants for driving a rich and honest conversation. We look forward to translating the insights into action and growing a stronger MedTech future for Africa!

Be sure to catch the next episode....,

RICE and Invention Education Teams' Gathers for Strategic Planning in Nairobi

Invention Education – Kenyatta University and the Rice University Team gathered at Safari Park Hotel, Nairobi, for the Annual Meeting.

The four-day meeting brought us together for a reflective and forward-looking exchange. in review of Year 1 activities and a focused session on strategic planning for Year 2.



UPCOMING/ RECENT EVENTS

July 14th, 2025

[AI Innovation in MedTech for Better Healthcare](#)

Antler, Nairobi, Kenya

Aug 13th 2025

Medtech connect Series – Pitch Event

TBD , Nairobi, Kenya
Check Socials for updates.

Aug 27 -29, 2025

[3rd Annual African Medtech Conference - TAMC](#)

Shamba Events, Nairobi, Kenya.