ACADEMIC CITY UNIVERSITY

TECHNOLOGY AND ENTREPRENEURSHIP CENTER (TEC)

The Innospire

Innovate, Inspire, Impact: The Innospire Way

April - June 2025

CONNECTING CLIMATE ENTREPRENEURS | arm (E³)NGAGE | MakeLab ACITY ACCRA

Introduction

Welcome to the Q2 2025 edition of The Innospire, the official newsletter of the Academic City Technology and Entrepreneurship Center (ACity TEC).

This quarter has been a meaningful one. We've deepened partnerships, expanded our outreach to young learners, and continued to connect innovation with real-world impact. From hosting students and international teams to leading conversations on sustainability and tech, ACity TEC has stayed focused on building experiences that matter.

In this issue, you'll find updates on our recent programs, collaborative sessions, and the everyday work that's shaping the future of learning and innovation on our campus and beyond.

Let's get into it.

Impact Summary

THIS QUARTER

- **264** — TOTAL YOUTH ENGAGED/TRAINED
- **06** — TOTAL EDUCATORS TRAINED
- **124 | 140** — GENDER DISTRIBUTION (YOUTH)
- **15–17 years** — AVERAGE PARTICIPANT AGE (YOUTH)
- **06** — WORKSHOPS & TRAINING PROGRAMS HELD
- KEY FOCUS AREAS
  - 3D Design and Digital Fabrication
  - Sustainability and Climate Education
  - Biodigester Technology
  - Robotics and Hardware Prototyping
  - Circular Economy and Plastic Innovation
- PARTNER INSTITUTIONS/ORGANIZATIONS
  - United Way Ghana
  - Project 2030 Africa
  - ARM
- SCHOOLS ENGAGED
  - La Enobal Basic School
  - North Hills International School
  - Aburi Girls' Senior High School
- **11** — MENTORS/FACILITATORS INVOLVED
- **01** — NEW PROTOTYPES OR VENTURES LAUNCHED (BIODIGESTER)
- **53%** — FEMALE PARTICIPATION RATE

Partnership Spotlight: Empowering Innovation Together

We are proud to acknowledge the invaluable support and strategic guidance provided by our esteemed partners. With their collaborative spirit and shared vision, we have achieved significant milestones and continue to drive innovation forward. Our partners include:

CONNECTING CLIMATE ENTREPRENEURS

Coalition of Climate Entrepreneurs (CCE) Hub:
Our partnership with the CCE Hub reflects a shared commitment to advancing climate entrepreneurship. Together, we empower innovators to develop impactful solutions for a more sustainable future.

arm (E³)NGAGE

Arm: Through our partnership, we have established cutting-edge labs and initiatives that empower students to explore emerging technologies and drive groundbreaking innovations.

MakeLab ACITY ACCRA

MakeLab ACity-Accra: Their dedication to promoting creativity and hands-on learning has enriched our educational ecosystem, enabling students and community members to translate ideas into tangible outcomes.

Together, we are shaping a brighter tomorrow, where innovation thrives and transformative ideas come to life. Join us in celebrating these collaborative efforts as we embark on a journey of innovation, inspiration, and impact.

La Enobal Students Explore Tech and Sustainability at TEC

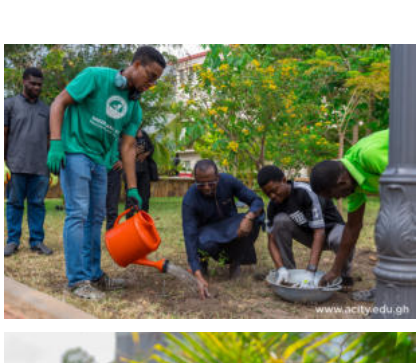
As part of our partnership with United Way Ghana under the Green4Clean initiative, we hosted 50 students and their teachers from La Enobal Basic School for an educational visit to the Technology and Entrepreneurship Center.

The students toured our engineering labs and workshops, where they got hands-on exposure to 3D printing, laser cutting, and other emerging technologies. We also had interactive sessions on sustainability and recycling, including a demonstration of our 360-degree plastic recycling system, which transforms waste into useful materials.

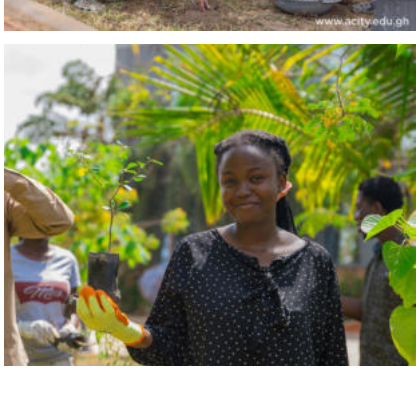
For many of the students, it was their first time engaging with this kind of technology , an experience that sparked curiosity and new ideas. It was a meaningful and eye-opening day for everyone involved.

Earth Day 2025: Planting with Purpose

As part of this year's Earth Day activities, the TEC team joined students and staff members to plant trees across campus. Guided by the global theme "Our Power, Our Planet," the activity was a simple but powerful reminder of how small, consistent actions contribute to a more sustainable future.



It was encouraging to see members of our community step away from their desks and classrooms to get their hands in the soil. Moments like this reinforce the idea that sustainability doesn't always start with big projects sometimes, it starts with just showing up and doing what you can.

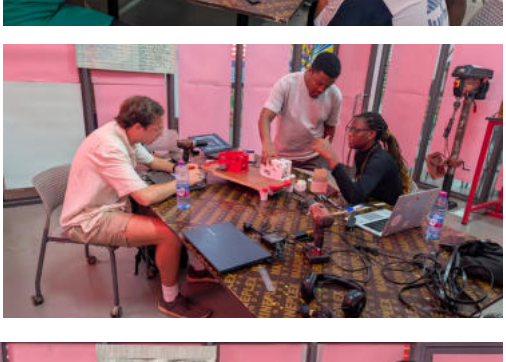


ETHOS 2025 Is Underway : Building for Impact, Together

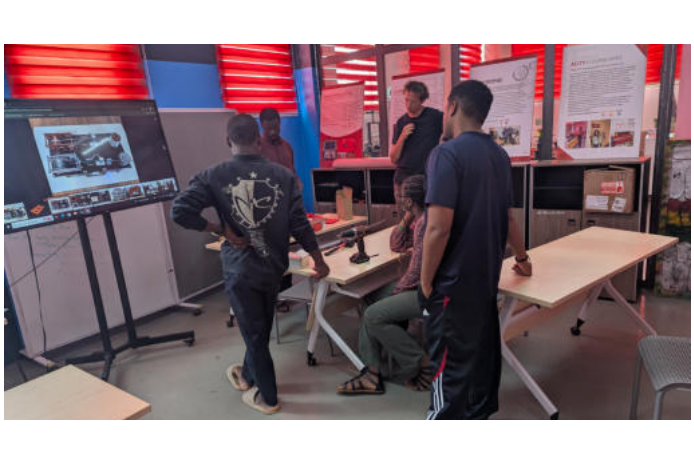
We're excited to officially kick off this year's ETHOS Summer Exchange. We're hosting two students from the University of Dayton who will be working closely with five Academic City students over the next 11 weeks.

Together, they'll be designing and building robotic arms and full robotics kits using 3D printing filament made in-house from recycled plastic bottles. The goal? To support robotics education in schools across the country.

This year's project builds on the work we began last year combining hands-on engineering with real-world social impact. Alongside the technical work, the program includes weekly learning sessions, cultural activities, and space for reflection and collaboration.



We've already had our first stakeholder meeting, and there's a strong sense of purpose among the team. It's going to be a good summer.



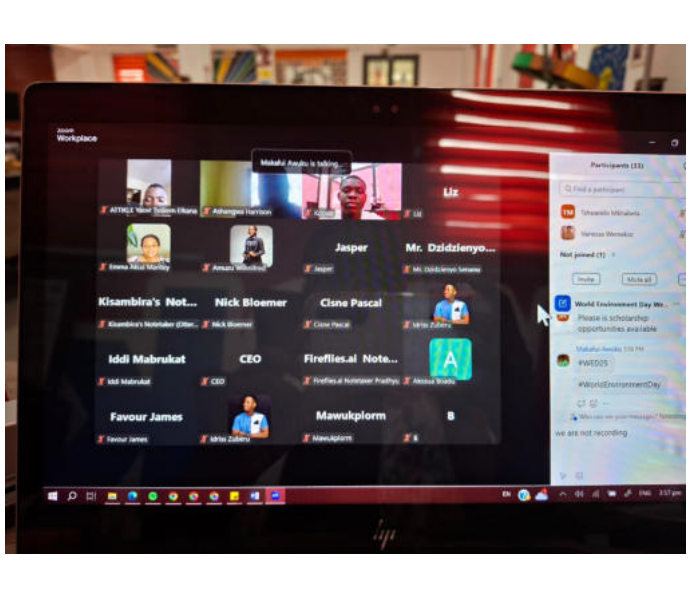
Webinar Brings Together Changemakers to Tackle Plastic Waste

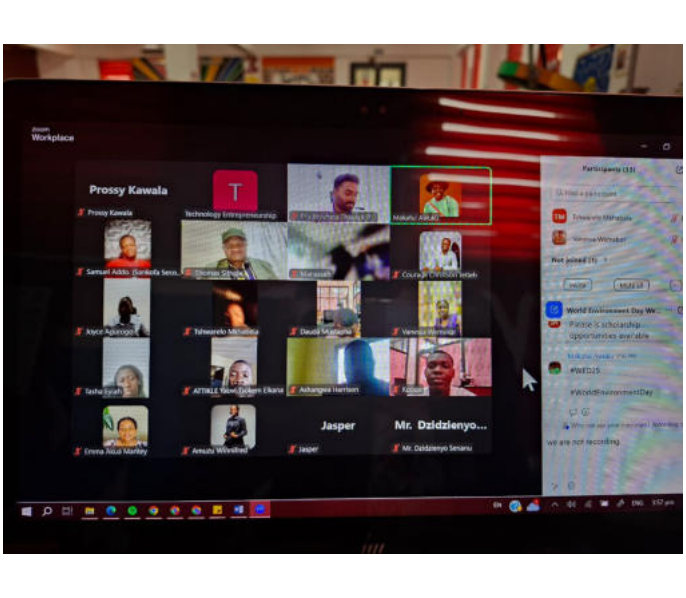
Leading up to World Environment Day, the Technology and Entrepreneurship Center hosted a webinar on the theme "Designing and Implementing Plastic Waste Sustainability Projects."

The session brought together over 50 participants from nine countries, all working or interested in addressing plastic pollution in their communities. In line with this year's World Environment Day theme, #BeatPlasticPollution, the webinar focused on practical tools and strategies for developing and managing impactful plastic waste initiatives.

The session was led by Makafui Awuku, environmentalist and Manager of the Technology and Entrepreneurship Center. He introduced participants to the Circular Economy Model Canvas and Design Thinking, and shared insights on proposal writing, securing funding, and communicating project impact.

It was a practical and engaging session, designed to help participants move from idea to action, and to connect with others working on similar challenges across the continent.





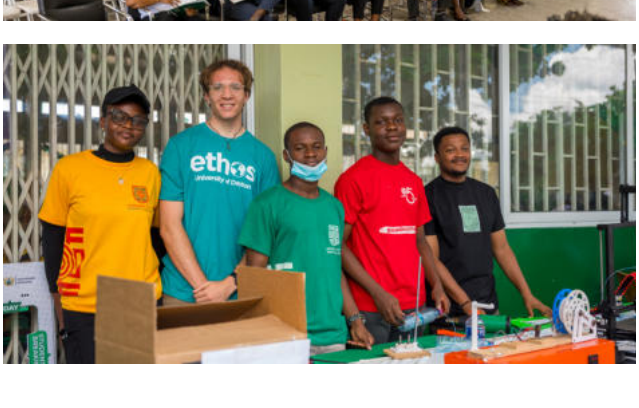
World Environment Day at Aburi Girls Senior High School

On June 5, the TEC team joined the Academic City Admissions team for a visit to Aburi Girls' Senior High School in recognition of World Environment Day. The event was hosted by Project 2030 Africa, with support from Zoomlion and the Ghana Education Service.

This year's theme, #BeatPlasticPollution, highlighted the urgent need to reduce plastic waste and its growing impact on the environment, a message that aligned closely with the day's activities.

The visit focused on open conversations with students about climate action, innovation, and the practical ways they can contribute to sustainability efforts. We also shared a student-led exhibition featuring products created from recycled and upcycled plastic waste all developed in our lab under the Sustain City project.

The students were curious, thoughtful, and eager to engage. Their questions showed a strong interest in the intersection of science, technology, and environmental responsibility. It was a meaningful exchange that reinforced the value of creating spaces where young people can think critically and act creatively.



North Hills International Students Explore 3D Design with a Sustainability Twist

Students from North Hills International School joined us for a hands-on workshop in 3D design using Tinkercad. After learning the basics, they created their own key holder models and saw the full process from design to 3D print.

As part of the session, students were taken through the process of turning plastic bottles into 3D printing filament. They then used that same filament to print their designs for the day.

It was a simple but powerful way to connect digital skills with environmental responsibility.

Celebrating Women in Engineering Day at ACity

To mark International Women in Engineering Day, Academic City University, in collaboration with ARM, hosted an inspiring event under the theme "Together We Engineer."

Held on campus, the session brought together 30 young women in engineering from both secondary and tertiary institutions. The event focused on building connections, sharing experiences, and encouraging leadership among the next generation of female engineers.

At ACity, supporting women in engineering goes beyond celebration. We are intentional about creating spaces where young women can build confidence, gain exposure, and thrive in tech-driven fields.

It was a powerful reminder that when young women are given the tools and the platform, they don't just participate, they lead.

La Enobal Teachers Trained to Build a Working Biodigester

As part of our ongoing partnership with United Way Ghana under the Green4Clean initiative, the ACity TEC team held a Training of Trainers (ToT) session for teachers from La Enobal Basic School.

The focus of the session was on building a simple biodigester that converts kitchen waste into cooking gas. Through hands-on learning, the teachers gained both the technical knowledge and practical experience needed to replicate the system in their school environment.

This session adds another layer to our collaboration with La Enobal , moving from student engagement to building teacher capacity for sustainability education. It's a step toward helping schools adopt low-cost, environmentally responsible technologies that address real community needs.

Sponsorship, Support and Impact - Calling all Partners!

We cannot overstate the importance of partnerships and collaborations in achieving our shared vision of making a lasting impact on African society through sustainable technology development. The TEC owes its existence to the unwavering support of the University and its key partners.

Now, we invite you and your organization to join us in 'carrying the impact forward'. The ACity team is eager to work with you to establish a customized workshop or initiative, using the TEC infrastructure and University resources to make strides towards our shared goals.

Let us not forget that by 2035, Africa will boast the largest workforce on the planet, with nearly half of the world's population living on the continent by the end of the century. Shockingly, less than 10% of young people pursue tertiary education, leaving African workers without the necessary skills and entrepreneurial spirit to thrive in the 21st century and beyond. Time is of the essence, and we must act now.

Don't miss out on this opportunity to make a real difference. Contact us at **tec@acity.edu.gh** and let's explore how we can work together to create lasting impact and drive sustainable development in the region.

Services Offered by the Technology and Entrepreneurship Center

- 3D Printing
- Laser Cutting
- 3D & Laser Cutting Design
- Rental of Maker Space
- Maker Space Tours
- Project Proof-Of-Concept Development
- Rapid Prototyping
- Industry Research and Development

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