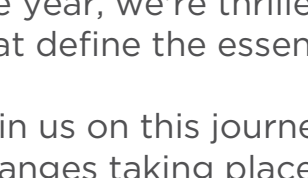


The Inn💡spire

Innovate, Inspire, Impact: The Inn💡spire Way

January - March 2024



arm(E³)NGAGE

MakeLab ACITY ACCRA

Introduction

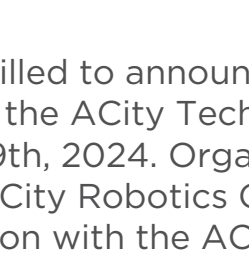
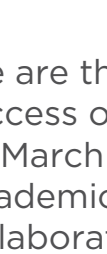
Welcome to the Q1 2024 edition of "The Inn💡spire - Innovate, Inspire, Impact: The Inn💡spire Way," the ACity TEC Newsletter. We're excited to kick off the year with our first newsletter of 2024, bringing you the latest updates and highlights from the Academic City - Technology and Entrepreneurship Center (ACity TEC).

This quarter, we've been buzzing with activity, from transformative workshops to exciting collaborations and student-driven projects. As we delve into the heart of the year, we're thrilled to share with you the remarkable stories and achievements that define the essence of ACity TEC.

Join us on this journey as we explore the innovative initiatives and impactful changes taking place within our ecosystem. From cultivating future-ready leaders to pushing the boundaries of technology, we're dedicated to nurturing talent and catalyzing positive change - all guided by "The Inn💡spire Way."

Partnership Spotlight: Empowering Innovation Together

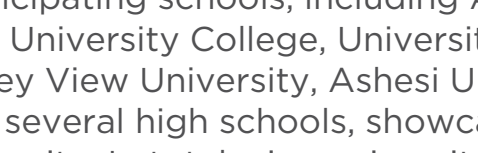
We are proud to acknowledge the invaluable support and strategic guidance provided by our esteemed partners. With their collaborative spirit and shared vision, we have achieved significant milestones and continue to drive innovation forward. Our partners include:



US State Dept. through the Coalition of Climate Entrepreneurs (CCE) Hub: Their commitment to fostering climate entrepreneurship aligns seamlessly with our mission to create impactful solutions for a sustainable future.

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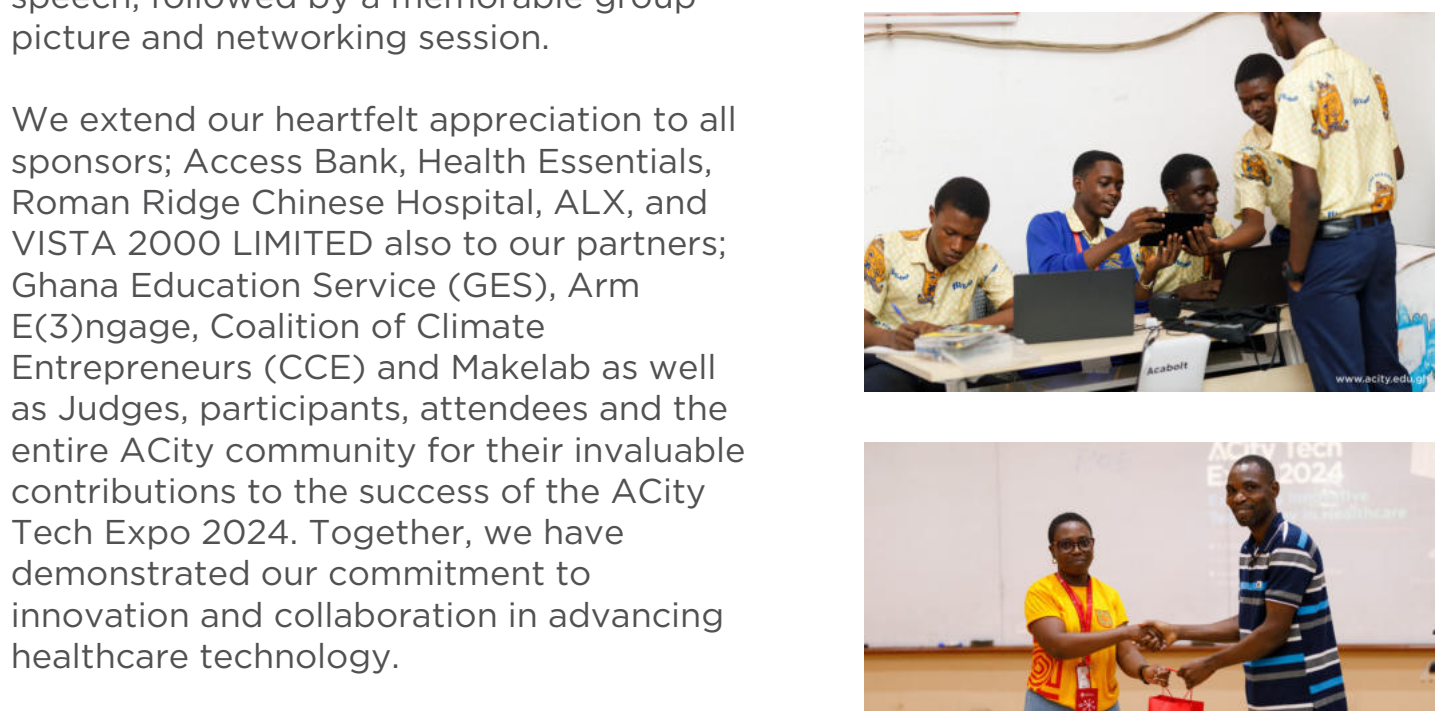
Arm: Through our partnership, we have established cutting-edge labs and initiatives that empower students to explore emerging technologies and drive groundbreaking innovations.



Their dedication to promoting creativity and hands-on learning has enriched our educational ecosystem, enabling students 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.

Exploring Innovative Healthcare Technology: ACity Tech Expo 2024



We are thrilled to announce the resounding success of the ACity Tech Expo 2024, held on March 9th, 2024. Organized by the Academic City Robotics Club in collaboration with the ACity Technology and Entrepreneurship Center (TEC), this year's expo centered on the theme "Exploring Innovative Technology in Healthcare," showcasing the convergence of technology and healthcare solutions.



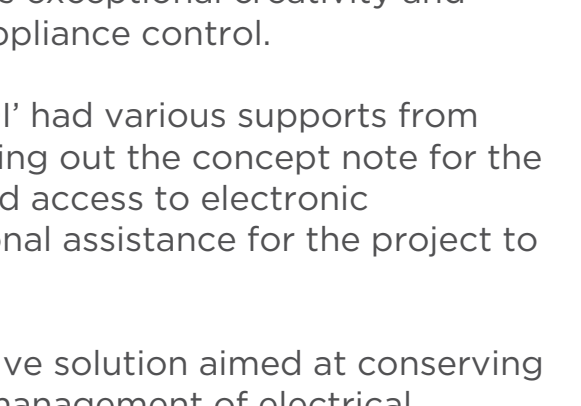
The event kicked off with an inspiring opening ceremony led by Dr. Abena Engman, the Dean of Student Affairs, followed by a motivating address from Levi Souli, President of the ACity Robotics Club. Esteemed sponsors, including Health Essentials and Roman Ridge Traditional Chinese Hospital, also shared insights with attendees. The expo featured dynamic exhibitions where participants, guests, and students delved into innovative projects at the TEC.



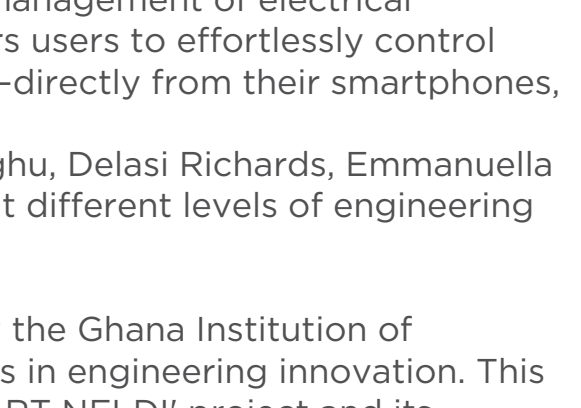
Participating schools, including Academic City University College, University of Ghana, Valley View University, Ashesi University, and several high schools, showcased their ingenuity. In total, nine university teams and seven high school teams presented innovations addressing healthcare challenges, with three teams from each category emerging as winners.



The event concluded with an awards ceremony, where winning teams were honored with cash prizes presented by Mr. Michael Mensah, Mechanical Engineering Lecturer at Academic City. Academic City University claimed the top spot in the university category, followed by Ashesi University and Valley View University. In the high school category, Mfantispim School secured first place, followed by Applied Technology Institute and Aburi Girls.



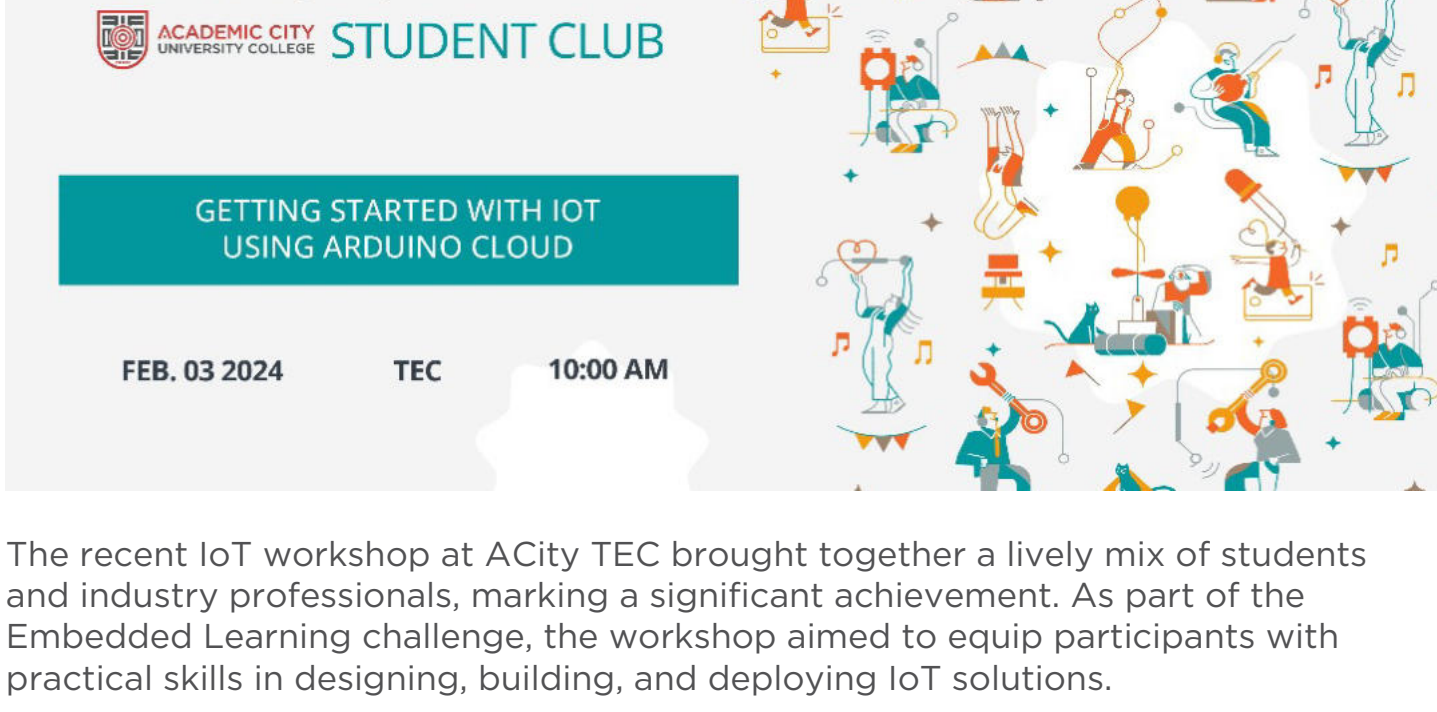
Miss Naa Nueki Otu, TEC Coordinator, extended gratitude to the esteemed judges and presented them with souvenirs. Joseph Apiriala-Atedogh, Vice President of the ACity Robotics Club, delivered a closing speech, followed by a memorable group picture and networking session.



We extend our heartfelt appreciation to all sponsors; Access Bank, Health Essentials, Roman Ridge Chinese Hospital, ALX, and VISTA 2000 LIMITED also to our partners; Ghana Education Service (GES), Arm E(3)Ngage, Coalition of Climate Entrepreneurs (CCE) and Makelab as well as Judges, participants, attendees and the entire ACity community for their invaluable contributions to the success of the ACity Tech Expo 2024. Together, we have demonstrated our commitment to innovation and collaboration in advancing healthcare technology.



Academic City Students Innovation Honored for 'SMART NELDI' Project at Ghana Engineering Excellence Awards By Ghana Institution of Engineering



Academic City's energy efficiency project honoured at Engineering Excellence Awards. An outstanding project developed by students of Academic City University College has garnered recognition at this year's Engineering Excellence Awards. Dubbed 'SMART NELDI,' the project was lauded in the Innovation: Applied Science and Mathematics category, highlighting its exceptional creativity and practicality in revolutionizing energy usage and appliance control.

Over the last couple of months, the 'SMART NELDI' had various supports from assistance to properly defining the problem, working out the concept note for the project, access to 3D models for the prototype and access to electronic components. The center has also provided additional assistance for the project to run a pilot on campus.

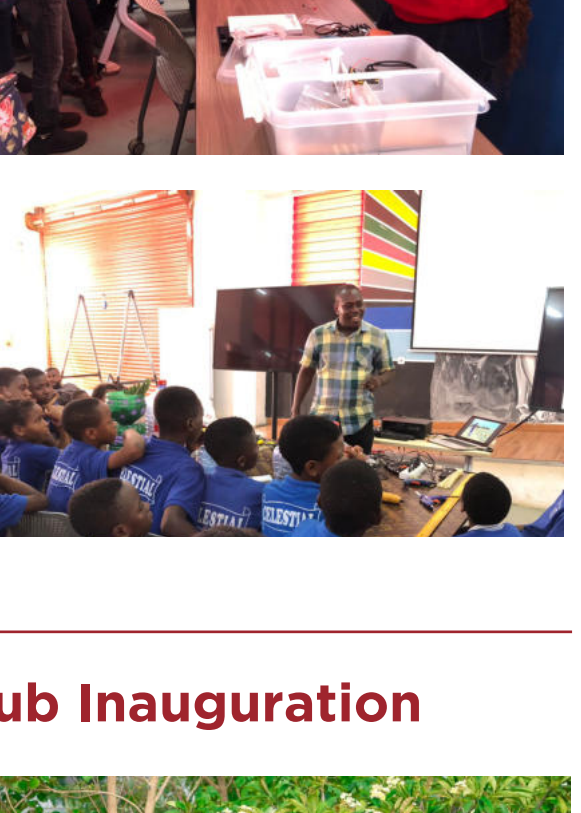
The 'SMART NELDI' project introduces an innovative solution aimed at conserving electrical energy efficiently while simplifying the management of electrical appliances. This groundbreaking system empowers users to effortlessly control various devices—such as lights, fans, and sockets—directly from their smartphones, regardless of their location.

The project team includes Joseph Apiriala-Atedogh, Delasi Richards, Emmanuella Uwudia, Latif Dabone, and Nii Sodja, all students at different levels of engineering and computer science.

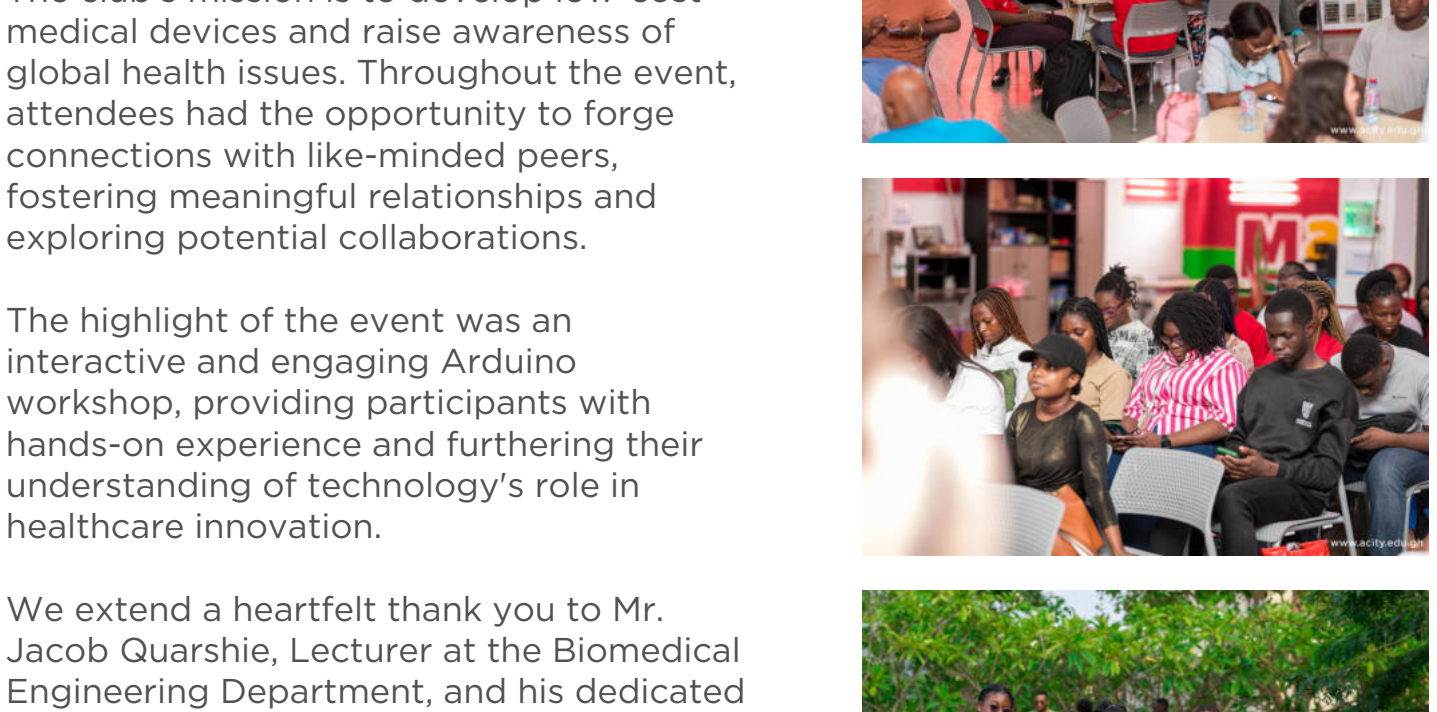
The Engineering Excellence Awards, organized by the Ghana Institution of Engineering, recognizes outstanding achievements in engineering innovation. This recognition highlights the significance of the 'SMART NELDI' project and its potential to bring positive change.

The Technology and Entrepreneurship Center is providing additional incubation support for the project for it to go beyond the pilot stage and become a viable product that will be available for commercialization.

Cyril Quansah-Quainoo, Public Relations Manager of Academic City, expressed pride in the students' achievement, emphasizing the university's commitment to nurturing innovative solutions to real-world challenges.



Exploring Innovation: Services Primary & Junior High Students Visit TEC at Academic City University



On the 17th January, 2024 students from Services Pri/JHS embarked on an educational tour to the Technology and Entrepreneurship Center (TEC) at Academic City University. The visit proved to be an engaging and enlightening experience as the students immersed themselves in hands-on activities, exploring the intersection of technology and innovation.

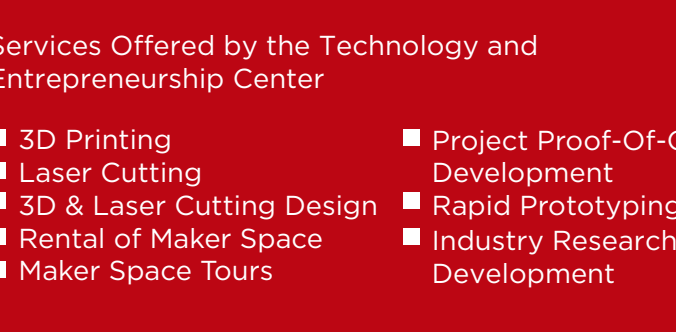
During their visit, the students participated in interactive games such as Virtual Reality which showcased the exciting fusion of technology and entertainment. They also had the opportunity to delve into 3D printing technology, witnessing firsthand how objects are created layer by layer.

A highlight of the tour was a session on upcycling, where the students learned about repurposing materials to create new and useful products. However, the most significant aspect of their visit was their quest for assistance in building an AquaSentry—a robotic fish designed to monitor water quality parameters in a fish pond using advanced sensors.

This endeavor stemmed from the students' participation in this year's GSTEP challenge, where they aimed to tackle real-world problems through innovative solutions. The guidance and support provided at the TEC will undoubtedly aid them in realizing their vision for AquaSentry.

Overall, the educational tour provided the students with a comprehensive and inspiring glimpse into the diverse applications of technology. It sparked creativity, curiosity, and a deeper appreciation for the role of technology in addressing societal challenges.

ARM (E³)NGAGE Arduino Cloud IoT Workshop ACity TEC



The recent IoT workshop at ACity TEC brought together a lively mix of students and industry professionals, marking a significant achievement. As part of the Embedded Learning challenge, the workshop aimed to equip participants with practical skills in designing, building, and deploying IoT solutions.

With over 22 eager participants, the workshop provided hands-on experience with real-world IoT devices, sensors, and microcontrollers. Led by experts Derrick Sossou and Dominica Oforiwa Amafo, attendees delved into crucial IoT topics such as MQTT and wireless communication. They collaborated in teams to develop prototypes for diverse fields like agriculture and healthcare.

Beyond learning, the workshop fostered valuable networking opportunities. Participants exchanged ideas and formed teams for future projects, laying the groundwork for continued collaboration.

As participants departed with newfound skills and inspiration, the impact of this workshop promises to extend far beyond its conclusion. ARM (E³)NGAGE is a key partner at the TEC and has a dedicated electronics lab under the center that provides various support for catered and student projects. Special thanks to ARM (E³)NGAGE and ACity TEC for their support in making this event possible.

Naa Nueki Otu, TEC Coordinator engages SYTO Club members from Aburi Girls Senior High School, and Presbyterian Boys School (Ligon)

On February 23, 2024, Naa Nueki Otu, the TEC Coordinator, had an interactive session with members of the SYTO Club from Aburi Girls Senior High School and Presbyterian Boys School (Ligon) at Academic City University. Organized by the Admissions Team. During the session, she gave a brief presentation outlining the mission and vision of the TEC, emphasizing the support it extends to students, faculty, and industry partners.

She encouraged collaboration and exploration, urging students to explore the potential of technology and innovation in their academic and professional paths and stressed the importance of continuous learning and adaptability, essential skills for navigating the tech industry.

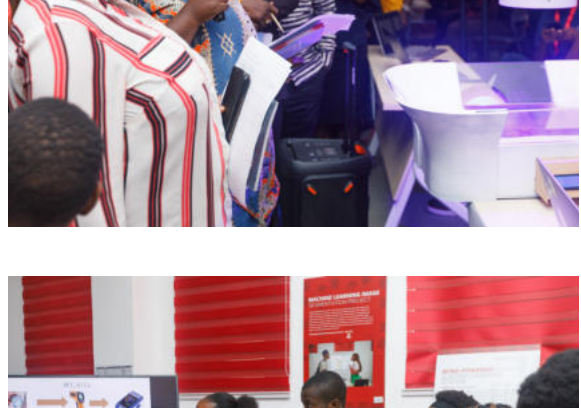
Naa Nueki also mentions various avenues through which the students could engage with the TEC, citing examples such as participation in workshops, seminars, innovation challenges, educational school visits, and collaborative projects with both peers and industry professionals, among other opportunities.

Overall, the session motivated SYTO Club members to take advantage of TEC resources and opportunities to pursue their goals and make positive changes in their communities.

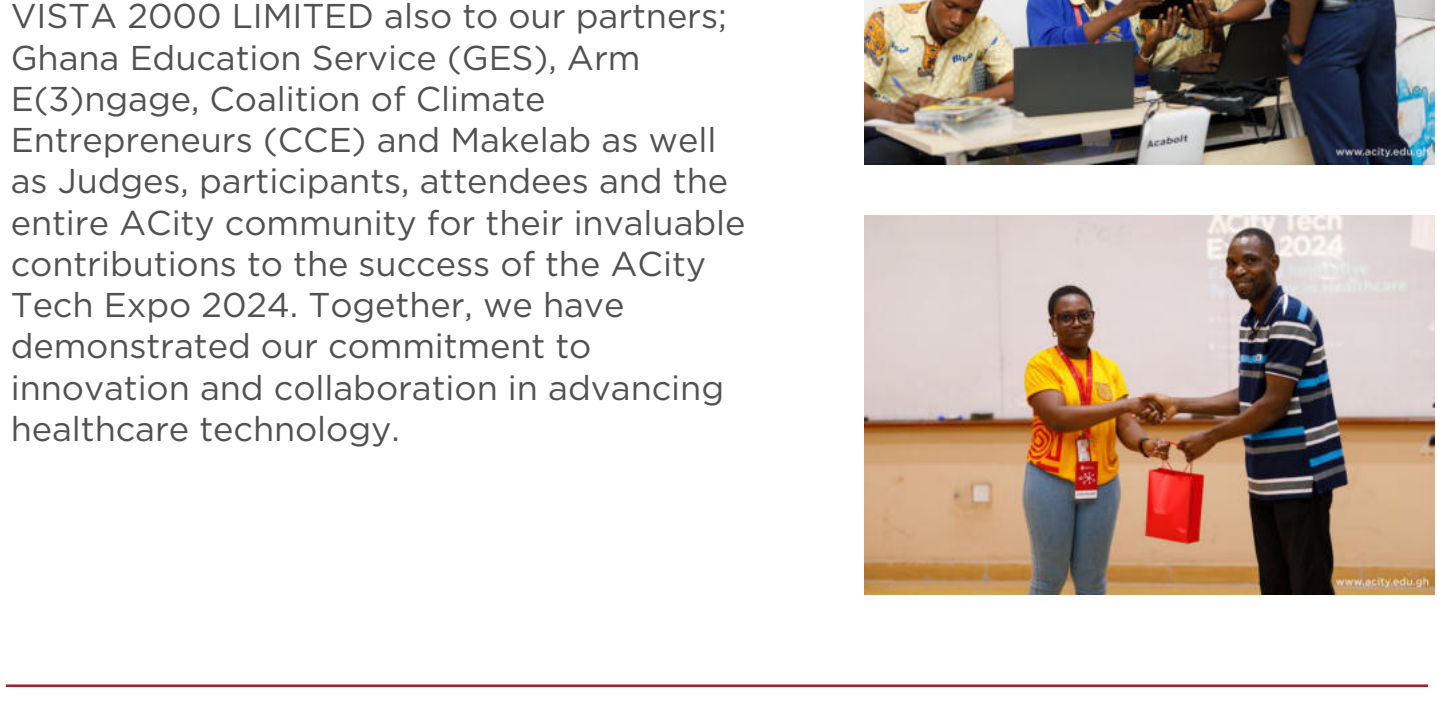
Celestial International STEM School Educational Visit

The TEC welcomed approximately 100 students from Celestial International STEM School for an event that featured a campus tour and hands-on experiences at the Technology and Entrepreneurship Centre (TEC). The activities included sessions on 3D printing, 3D modeling, robotics (Arduino), upcycling, and interactive light and sound pong games. Teachers accompanied the students throughout the event. This collaborative effort aimed to highlight practical STEM skills, demonstrating the effectiveness of experiential learning.

The event left students feeling inspired and equipped for future innovations. It exemplified a dedicated commitment to shaping a brighter future through the fusion of education and technology.

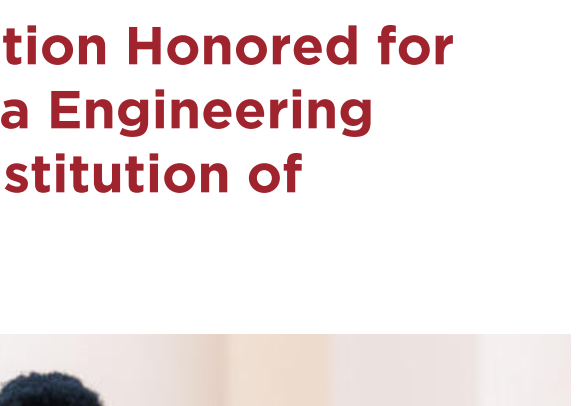


Innovators for Global Health Club Inauguration



We are excited to announce the official inauguration of the ACity Chapter of the Innovators for Global Health Club (IGH club)! The event, held at the TEC, was a tremendous success, bringing together dedicated individuals committed to advancing health equity through innovative solutions and global awareness.

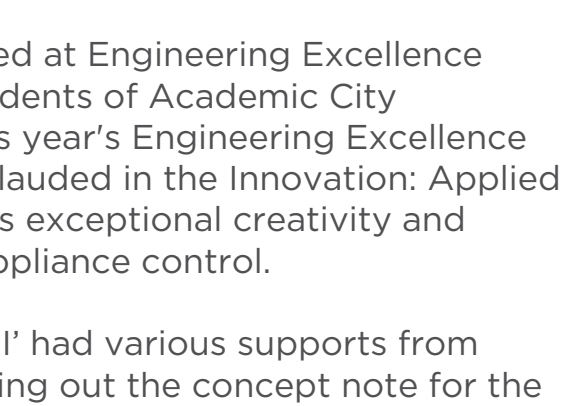
Attendees included club members and health enthusiasts from Northeastern University and the University of Ghana. Keynote speakers shared valuable insights on health challenges and the pivotal role of innovation in addressing them.



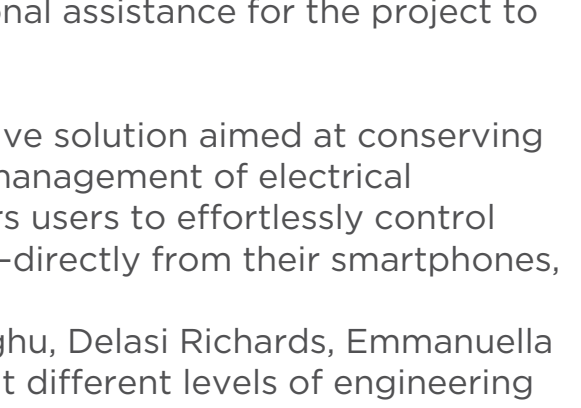
The club's mission is to develop low-cost medical devices and raise awareness of global health issues. Throughout the event, attendees had the opportunity to forge connections with like-minded peers, fostering meaningful relationships and exploring potential collaborations.



The highlight of the event was an interactive and engaging Arduino workshop, providing participants with hands-on experience and furthering their understanding of technology's role in healthcare innovation.



We extend a heartfelt thank you to Mr. Jacob Quarshie, Lecturer at the Biomedical Engineering Department, and his dedicated team for their invaluable contribution to making this event a resounding success. Their expertise and support were instrumental in ensuring a seamless and impactful inauguration of the ACity Chapter of the Innovators for Global Health Club.



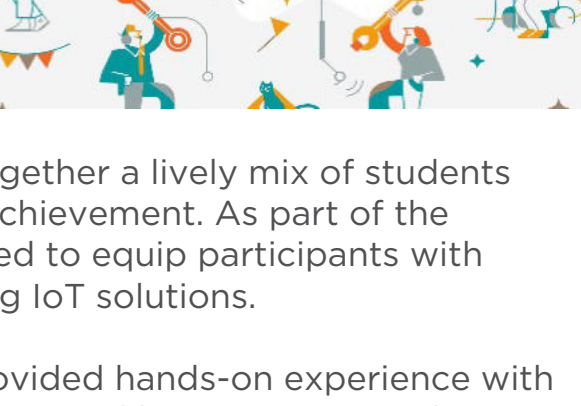
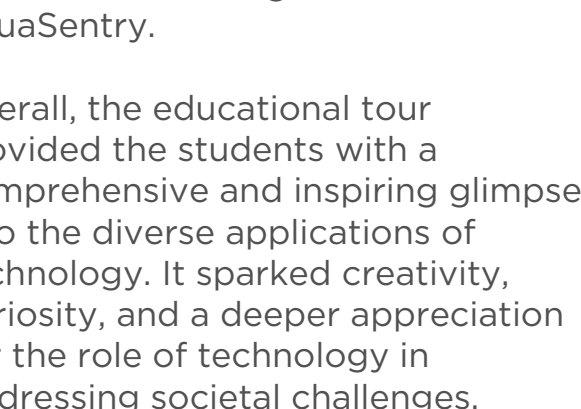
Empowering Digital Futures: Dauda Mustapha's Journey at the ICT4D Conference

Dauda Mustapha, a TEC Lab Technician, attended the ICT4D conference in Accra on March 20th and 21st, 2024.

The event focused on digitizing economies for a sustainable future. Discussions covered various digital technology topics, such as GenAI, the future of work, agriculture, health, and more.

For Dauda, the conference was an enlightening experience, offering the chance to engage with like-minded individuals and exchange ideas. The collaborative atmosphere fostered by the event inspired Dauda to contemplate how he could contribute to driving digital development forward in his role as a TEC Lab Technician Intern.

Overall, the ICT4D conference in Accra proved to be a pivotal gathering, uniting global stakeholders in a collective effort to shape the future of digital development.

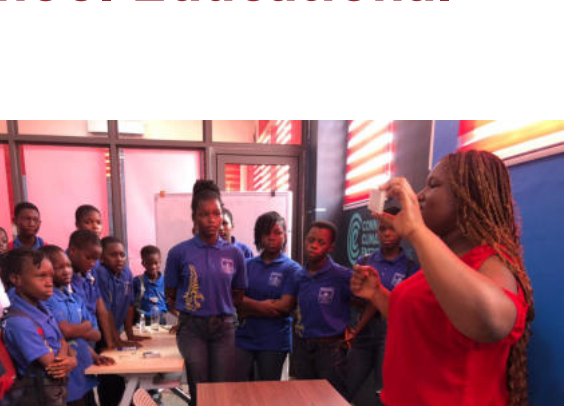
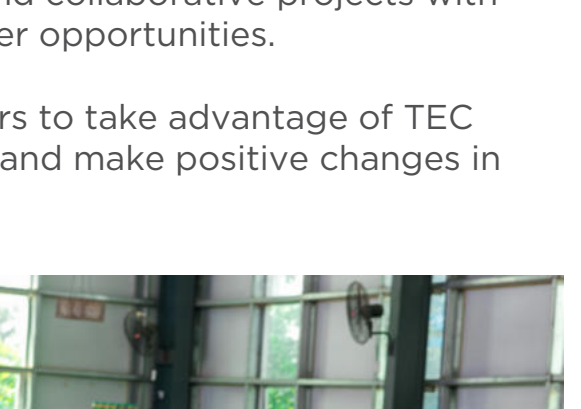


ACity Technology and Entrepreneurship Center join the biggest Hubs community in Ghana and in Africa in 2024.



We begin 2024 with confirmed membership of Ghana Hubs Network and Afrilabs. Afrilabs is a network organization supporting Innovation Centers across African countries since 2011, founded with the mission of building a community around the rapidly emerging technology hubs in Africa. Afrilabs has a membership of over 400 hubs and partners collaborating and partnering to drive innovation on the continent of Africa. Ghana Hubs.

The TEC is looking forward to amplifying its impact among members of the communities and also leveraging the core competencies of other members to collaborate on projects from this year.



Upcoming Programs and Events

- **Trash to Cash Workshop**
August 2024
- **ACity/University of Dayton ETHOS Summer Immersion**
May-August 2024

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 a lasting impact and drive sustainable development in the region.

