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CSIR-INSTI NEWSLETTER

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ISSUE 1

GHANA'S FUTURE TECHNOLOGY LEADERS HONOURED: CSIR-INSTI AND MIKROBOT ACADEMY CELEBRATE ROBOFEST SUCCESS WITH MEST MINISTER

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UPCOMING STORIES

Dr. Paul Danquah
Director, CSIR-INSTI

DIRECTOR'S MESSAGE

It is an exciting opportunity to share our reflections on our voyage and a glimpse of the future of our Institute. Our dedication to remaining at the forefront of technology has never been more resolute, as the world of technology is evolving at an unprecedented pace. In the past few months, we have accomplished substantial milestones, including the launch of innovative products that address real-world challenges, the expansion of our partnerships, and the reinforcement of our presence in the technology research sector. These accomplishments are a testament to the trust and loyalty of our stakeholders, as well as the hard work, creativity, and dedication of our exceptional team. We are on the brink of providing our stakeholders with even more value, as we have a number of new initiatives in the pipeline, such as AI-driven solutions and improved systems development services. I hope you will take the time to explore this issue of our newsletter, which contains a variety of project highlights and inspiring stories that are indicative of our future goals. We are eager to receive your feedback and collaborate on the future of our journey together. We are grateful for your participation in our narrative.

Swearing in of the Director of CSIR-INSTI-Dr. Paul A. Danquah by Prof. Paul P. Bosu, the Director-General of CSIR

Board members of the GDNR with Hon. Samuel Nartey George (MP), the Minister for Communications, Digitgal Technology and Innovations.

CSIR-INSTI DIRECTOR APPOINTED TO SERVE ON GDNR BOARD

Dr. Paul Asante Danquah, the Director of the Institute for Scientific and Technological Information, has been appointed to serve on the Governing Board of the Ghana Domain Name Registry (GDNR).

The inauguration of the Board took place on 5th August 2025. Hon. Samuel Nartey George (MP), the Minister for Communications, Digital Technology and Innovations, swore in members of the Board, and tasked them with reclaiming the digital sovereignty of Ghana.

Dr. Danquah described his appointment as a milestone in his cybersecurity career.

"We are positive about contributing to policy optimisation and advancing the management of Ghana's top-level domain", Dr. Danquah posited.

GDNR is a nine-member board responsible for regulating the .gh top level country code domain. The Board is chaired by Mrs. Estelle Akofio Sowah, with Dr. Paul A. Danquah, Mr. Wisdom Donkor, Mr. Solomon Tetteh Mensah, Mrs. Christabel Aretha Mfoama, Prof. Ayikwei Addo, Mr. Gideon Enoch Abbeyquaye, Prof. Amos Kabo Bah and Mr. Eric Ogum Akumiah serving as board members.

ABOUT CSIR-INSTI

Front view of CSIR-INSTI

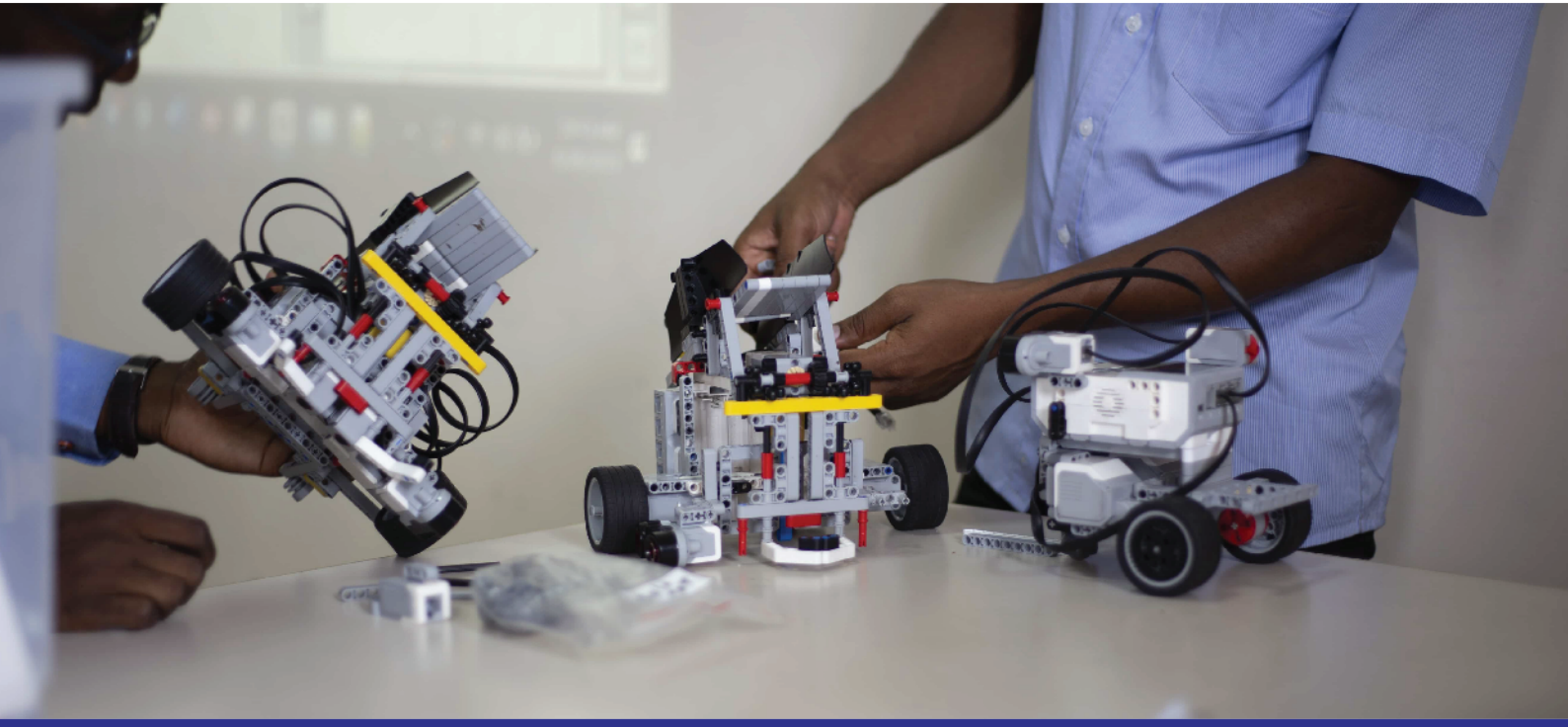
The Institute for Scientific and Technological Information (INSTI) is one of the 13 institutes of the Council for Scientific and Industrial Research (CSIR). CSIR-INSTI was founded through the amalgamation of three notable entities: The National Science and Technology Library and Information Centre (NASLIC), the National Atlas Development Centre (NADEC) and the National Science and Technology Press (NASTEP). This transformative merger was officially implemented following the enactment of Act 521, which re-established the Council for Scientific and Industrial Research (CSIR), as approved by Parliament on 26th November, 1996.

Prior to this significant development, NASTLIC had its inception as the Central Reference and Research Library in 1964. Initially, its primary mission was to provide essential reference materials for researchers. In 1992, it underwent a merger with the then-existing Documentation Centre and was re-designated as a Centre with a broader mandate to build a national capacity for documenting and disseminating both indigenous and foreign scientific and technological information (STI). Subsequently, in 1994, it was elevated to the status of a full-fledged institute. This transformation positioned INSTI as a vital institution for the collection and dissemination of scientific and technological Information; furthering the objectives of the CSIR.

Currently, CSIR-INSTI is mandated to research into and develop electronic tools and communication systems aimed at solving electronics and communication problems for national development.

The Communications, Electronics, Fluid Science, Geospatial and Information Science, and Printing & Publishing Divisions are the five technical divisions of the Institute, supported by the Administration and Accounts Divisions.

The vision of CSIR-INSTI is to become a centre of excellence in the development and application of electronic and communication technologies and systems for national development.



NEWS ON SCIENCE IN PRACTICE

INSIDE CSIR-INSTI'S JUNIOR RESEARCHER PROGRAMME – AND THE YOUNG GENIUSES POWERING THE 4TH INDUSTRIAL REVOLUTION

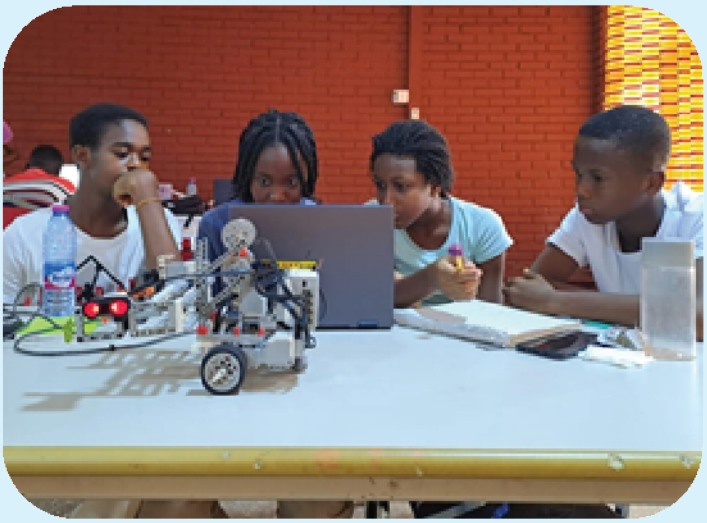
At the heart of Ghana's scientific awakening is a quiet determined force: The Council for Scientific and Industrial Research – Institute for Scientific and Technological Information (CSIR-INSTI). Long recognised for its role in managing national scientific knowledge and innovation systems, INSTI is now evolving into something more audacious—a launchpad for the next generation of African inventors, coders, engineers, and problem solvers. No longer content to merely catalogue research, INSTI is building researchers from the ground up—starting with teenagers. Through its revolutionary Junior Researcher Programme (JRP), the institute is making it clear: Ghana will not just consume the technologies of the Fourth Industrial Revolution, it will help to create them.

CURIOSITY IS OUR FIRST LABORATORY – INSTI'S JUNIOR RESEARCHER PROGRAMME (JRP)

We like to think research begins with a lab coat and a microscope, it does not. It starts long before that—with a question. Why does this fall down? What happens if I touch this? Can I make this better? Yes, at CSIR-INSTI, we believe research begins in childhood. Not in chalkboard lectures, but in lived experiences. Not through memorising the periodic table, but by tinkering, asking, building, and

failing, so we built a programme around that belief. It is called the Junior Researcher Programme (JRP).

The JRP pairs young students—some just entering junior high—with seasoned researchers at CSIR-INSTI. But this is not job shadowing or a glorified summer camp. It is real research, real problems, real-world innovation. This year alone, more than 350 students grouped into three age categories—elementary, junior, and senior – have benefited greatly from JRP with stunning results to show.



Learners at a regular training session at the CSIR-INSTI Makerspace

Rehan, Aneesh, and Enam called their project RAPGO – Robotic Assisted Precision Garden Orchestration. It was more than a name. It was a mission.

In a country where families often spend 30–50% of their income on food, the trio saw an opportunity—backyard gardens sitting unused and untapped. What if they could transform these patches of land into efficient, data-driven farms? They built a network of smart sensors that monitored soil conditions in real time. When nutrients dropped or the temperature rose, a robotic system took over, applying fertiliser or adjusting watering without human intervention.

The judges at the World Robot Olympiad in Türkiye were blown away. But the real reward came months later, when CSIR-INSTI integrated RAPGO into its AgriSense Hub—a national data facility for precision agriculture.

Students from Mikrobot Academy presenting RAPGO at the World Robots Olympiat in Izmir, Türkiye

Today, RAPGO is not just a student project – it is a living research tool contributing to Ghana's national food strategy.

BUILDING ROBOTS THAT CAN THINK - REAL IMPACT, REAL CAREERS

Not far behind them was the senior team. Muhammad, Edwina, and Jonathan had a different question: Can we build a robot that knows where it is—even when we do not? Their answer came in the form of an Autonomous Ground Vehicle powered by Simultaneous Localisation and Mapping (SLAM). Using LIDAR sensors and Intel's D435i depth camera, their machine could navigate unknown environments, build 3D maps, and adjust in real-time.

Their innovation was not theoretical. It had real implications for search-and-rescue, precision agriculture, and environmental monitoring.

Their mentors watched in awe, not because it worked, but because of who built it. Teenagers, Students, Researchers in training who didn't wait to get a degree to start changing the world.

The first team from Ghana to participate in the Future Engineers Category of the World Robots Olympiad

HERE IS WHAT SETS JRP APART: WHEN THE COMPETITION ENDS, THE JOURNEY DOES NOT.

The best student projects don't get trophies. They earn bench space in real research labs. They attract mentorship from senior scientists. They become absorbed into CSIR's national priorities:

RAPGO is now used to collect training data for AI systems that support Ghana's smart farming policies.

The SLAM-powered AGV is feeding into research on autonomous monitoring systems for hard-to-reach ecosystems.

Students from the programme are winning international scholarships, including Delta's International STEM award, which sent Afia and Edgiva (both Mikrobot Academy trainees) to the National Flight Academy in the Unites States of America.

Others, like Muhammad, are already interning at the cutting-edge labs of Bloomberg in London, while Bright is currently at the University of Alabama's NASA Lunabotics programme.

This is no longer an experiment. It is a proven pipeline.

GHANA'S FUTURE TECH LEADERS HONOURED: CSIR-INSTI AND MIKROBOT ACADEMY CELEBRATE ROBOFEST SUCCESS WITH MESTI MINISTER.

Recently, the momentum behind this youth-led innovation was further recognised at the highest levels of government. A delegation from CSIR-INSTI, led by the Director Dr. Paul Danquah, together with members of Mikrobot Academy, paid a courtesy visit to the Minister of Environment, Science and Technology (MEST), the late Hon. Ibrahim Murtala Muhammed, to present the trophies Ghana won during their stellar performance at the 2025 Robofest World Championships in Michigan, USA. With standout wins—including 2nd place in the Junior Unknown Mission Challenge and multiple top-tier placements in the senior Game and Bottle Sumo categories—Ghana's young roboticists firmly planted the national flag on the global innovation map.

A visit by CSIR-INSTI and MIKROBOT to the late Hon. Dr. Ibrahim Murtala Muhammed (MP) to present trophies from ROBOFEST 2025 held in Michigan, USA

In his remarks, the Minister not only celebrated the teams' achievements but also reaffirmed his commitment to mainstreaming STEM education as a national development priority. He praised the collaborative efforts of CSIR-INSTI, Ghana Robotics Academy Foundation, Mikrobot Academy, and RAIL at KNUST, highlighting their critical role in nurturing a diverse and resilient next generation of innovators.

BUILDING TOMORROW'S INNOVATORS TODAY: ROBOTICS TRAINING AND BOOT CAMPS IGNITE YOUNG MINDS ACROSS GHANA

Beyond global competitions and research labs, the foundation of this innovation pipeline is built week by week through regular robotics training sessions and boot camps organised by CSIR-INSTI, Mikrobot Academy, and the Ghana Robotics Academy Foundation. Every weekend, children as young as eight years gather to learn coding, engineering principles, and problem-solving through hands-on robotics challenges. These sessions are designed not just to teach technology, but to cultivate curiosity, teamwork, and innovation from an early age. Seasonal boot camps—held during school breaks—offer immersive experiences where students design, build, and test robots in real-world-inspired missions. For many of these young learners, it's the first step in a journey that could lead from local classrooms to global tech stages.

Students at Robotics Boot Camps 2025 at CSIR-INSTI

THE VILLAGE BEHIND THE VISION

None of this happened in isolation. The Junior Researcher Programme (JRP) thrives because of a powerful coalition of believers who share a vision for nurturing young innovators. The Ghana Robotics Academy Foundation brings global exposure and competition platforms that challenge and inspire. Mikrobot Academy acts as the feeder system, identifying and grooming talent from as young as eight years old. The Responsible AI Lab at KNUST ensures that student innovation is guided by ethics, cutting-edge tools, and a deep sense of responsibility. CITSYS Limited, our industry partner, provides not just hardware and tools, but a resounding vote of confidence that these young minds are not just learners—they are builders. Together, we have created more than a program; we have sparked a movement.

WHAT THIS REALLY MEANS

Here is the uncomfortable truth: We have spent generations trying to teach young people what to think. But the next generation—the one that will define Africa's place in the global tech economy—will be shaped by those who know how to think. The next Einstein won't come from memorising Newton; he will emerge from questioning him. Across Ghana today, there are children holding a soldering iron in one hand and a dream in the other. If we listen, if we support them, if we keep giving them permission to explore—then maybe, just maybe, the future will not be imported, it will be engineered here.

Courtesy: Ing. Dr. Michael Wilson

SMARTPHONE-POWERED AI BRINGS ACCURATE MALARIA DIAGNOSIS TO RURAL GHANA

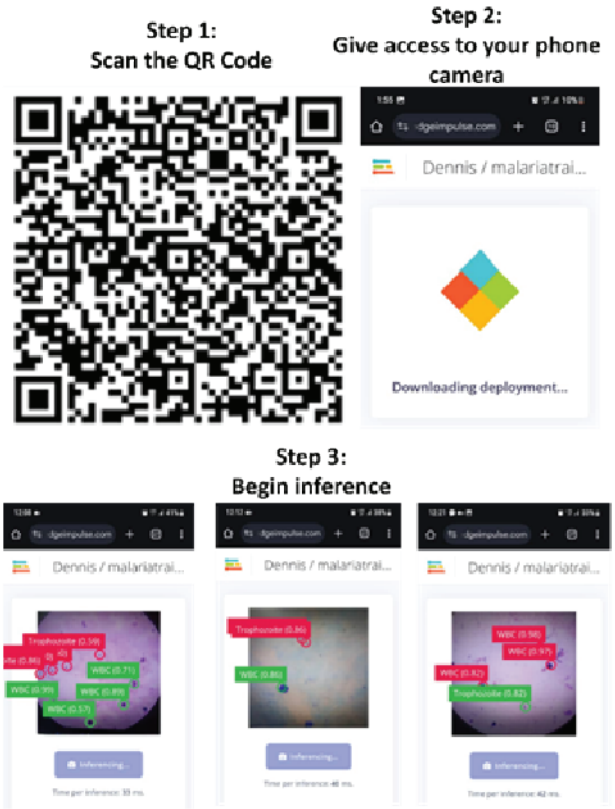
In Ghana's rural communities, malaria remains a leading health threat due to limited access to skilled laboratory technicians and diagnostic facilities. Traditional methods such as microscopy require trained professionals and equipment rarely available outside urban centres, while Rapid Diagnostic Tests (RDTs) often yield unreliable results. A new solution is now bridging this diagnostic gap: a smartphone-over-microscope system powered by Tiny Machine Learning (TinyML). This portable, AI-enabled tool

allows community health workers to detect malaria parasites in blood samples quickly and accurately, even in remote areas with no internet access.

The process is simple yet powerful: A high-resolution smartphone camera is mounted on a basic microscope to enable health workers capture images of blood slides. These are analysed in real-time using lightweight AI models trained on the Lacuna Malaria Detection Challenge dataset. The system identifies malaria parasites and white blood cells, offering reliable diagnostics without the need for advanced laboratory infrastructure. Developed in partnership with the Bolgatanga Technical University, the system is tailored to Ghana's unique healthcare context and designed for ease of use. Its user-friendly interface allows local health workers to operate it with minimal training, boosting their capacity to provide timely care.

While challenges remain — including smartphone affordability and image quality in low-light settings — the project plans to expand local datasets and improve app functionality. Future versions could also be capable of detecting other blood-borne diseases such as sickle cell anaemia. This innovation supports Ghana's progress toward health equity and aligns with global Sustainable Development Goals. By empowering rural health workers with AI-driven tools, Ghana is taking a significant step toward controlling malaria and strengthening its healthcare system.

Courtesy: Dr. Dennis N. A. Gookyi



Stepwise process in the usage of the Malaria Diagnosis app

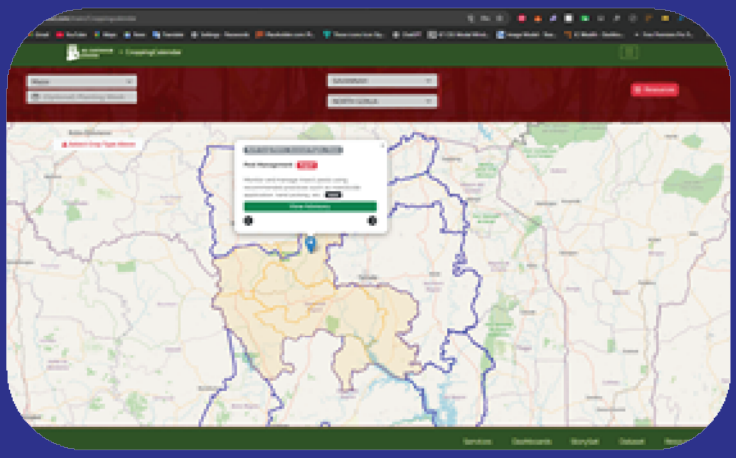
CSIR-INSTI TRAINS AGRICULTURAL EXTENSION OFFICERS AND FARMERS ON EIA CROPPING CALENDAR

Group photograph of trainers and participants at Damongo

The Institute for Scientific and Technological Information (CSIR-INSTI), through the Excellence in Agronomy Project has trained more than 250 Agricultural Extension Officers and farmers on the usage of a cropping calendar for maize and soyabean production.

The training programme sessions took place in Tamale, Damongo and Wa, in the Northern part of Ghana. Participants were taken through usage of the mobile and web platform, which provides real-time information on planting, harvesting, fertiliser and insecticide application for the two crops.

Trainers offering extra explanation to participants at Tamale



Pop-up box of information regarding pest management

The platform uses meteorological data from the Ghana Meteorological Agency, pertaining specifically to the various geographical zones and districts to generate predictions for the various varieties of the two crops. Plans are also underway to expand the app to include other staple crops.

Courtesy: Tracy Adjeley Sackey

CSIR-INSTI LAUNCHES MAP LIBRARY TO PRESERVE GHANA'S CARTOGRAPHIC HERITAGE WITH CUTTING-EDGE TECHNOLOGY

The Council for Scientific and Industrial Research – Institute for Scientific and Technological Information (CSIR-INSTI) has launched an initiative to preserve and digitise Ghana's rich cartographic heritage.

Known as the Map Library Project, the initiative seeks to establish a state-of-the-art facility that blends traditional mapping with immersive technologies such as 3D visualisation and augmented reality (AR).

Visual impression of the digital map library

The project will serve as a living repository of thematic maps, a high-precision digitisation studio, and an educational hub for the public. Located in a purpose-built facility at the CSIR-INSTI annex, the library will safeguard thousands of historical maps, many of which face the risk of degradation due to age and environmental factors.

Dr. Michael G. Dziwornu, Head of the Geographic and Information Systems Section, said that the section has been working on documenting Ghana's landscapes and development pathways for more than six decades. He further explained that the current focus is on ensuring these maps are preserved, digitised, and made publicly accessible for generations to come.

The facility will be equipped with high-resolution scanners (1,200 dpi) that digitise fragile documents without damage, and a 3D exhibition gallery where visitors can explore reconstructed historical landscapes using geospatial data and AR technology.

The digitisation process will follow a workflow in which maps are first inventoried, gently cleaned, encapsulated and scanned under controlled lighting conditions. The maps will then be verified for accuracy and entered into a searchable digital archive enriched with metadata, enabling users to retrieve maps by year, scale, projection, or theme.

The project goes beyond preservation and also aims to democratise geospatial knowledge. Planned educational programmes will teach students to map their communities using open-source GIS tools, while researchers can overlay socio-economic, environmental and health data onto historical maps for deeper analysis. Tourists and history enthusiasts will be able to explore Ghana's heritage through interactive digital trails.

So far, designs have been finalised for the digitisation lab, with a procurement list generated for scanning and calibration equipment. A drafted metadata framework aligned with the upcoming Ghana Geospatial Information Hub is also ready.

CSIR-INSTI calls on development agencies, private sector partners, and the academic community to support the Map Library Project as it will empower planners and preserve Ghana's map heritage for the future.

Courtesy: Dr. Michael Gameli Dziwornu

CSIR-INSTI SIGNS MOU WITH SIRIUS ACRES LTD.

Dr. Paul A. Danquah and Her Royal Majesty Mamaga Hoeflewo II CEO of Sirius Acres Ltd signing the MOU on behalf of their two Institutions

With industrialisation playing an important role in the economic sector of every country, CSIR-INSTI has committed itself to strengthening collaboration with the private manufacturing sector to provide digital solutions for them.

In this quest, the Institute signed an MOU with Sirius Acres Ltd to train about 50,000 farmers and stakeholders on the usage of the Agrilink platform over a three-year period.

The Agrilink platform is a mobile and web application which will serve as a means to connect farmers directly to consumers. CSIR-INSTI will assume a supervisory role in the platform's development, to ensure its implementation and alignment with the platform's vision, objectives and timelines.

The Institute looks forward to forging more partnerships with the private sector to develop tailored solutions that address pressing national issues.

Courtesy: Mr. John Paapa Awotwi

CSIR-INSTI EXPANDS ITS EXPERTISE

Ing. Dr. Mohammed N. Zainudeen receiving the certificate holder at the graduation ceremony

As the Institute for Scientific and Technological Information is expanding into other areas of research, its staff have also levelled-up academically, by gaining further knowledge in their various fields of expertise.

Ing. Dr. Mohammed Zainudeen, a professional Chemical Engineer and the Head of the Fluid Science Division, recently earned a PhD in Nuclear and Environmental Protection, from the University of Ghana.

His doctoral thesis focussed on studies of the extraction of Gallium from Ghana's Sefwi-Awaso Bauxite ore deposits using the Bayer process. His research interests also include integration of Ethanol-water mixtures into fuel grade concentration to power vehicles, renewable energy through the development of biogas production units, and alkaline water electrolyzer for green hydrogen production.

Dr. Zainudeen said he aims to make the Institute an important asset in the develop-

ment of fuel cell for the Ghanaian industrial sector.

In the same light, Ing. Dr. Michael Wilson, head of the Electronics Division, graduated with a PhD in Computer Engineering from the Kwame Nkrumah University of Science and Technology. Delving into an ant colony inspired approach to optimised load balancing for collaborative mobile edge computing in IOT networks, his doctoral research has practical implications to improve the efficiency, scalability, and responsiveness of IoT systems in real-world deployments.

He is also interested in the real-life applications of robotics, artificial intelligence and smart systems. Dr. Wilson expressed the hope to assist in pushing the digital drive of CSIR-INSTI, anticipating the day industry and research will work hand in hand for the betterment of the Ghanaian industrial sector.

Courtesy: Ms. Tracy Adjeley Sackey

Ing. Dr. Michael Wilson posing for the camera

AGRI-SENSE HUB

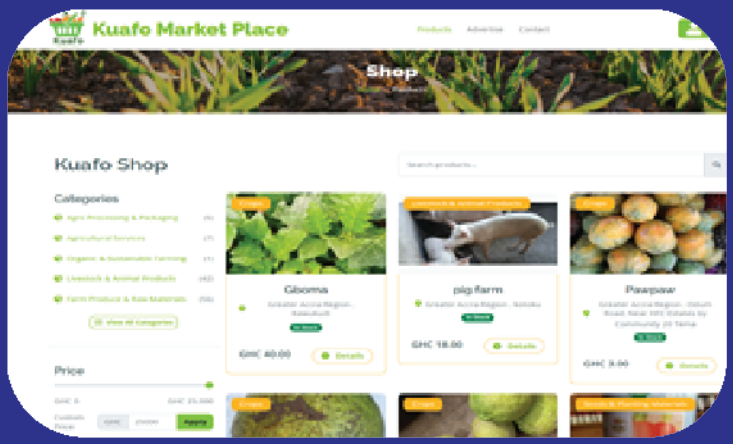
TECHNOLOGIES DEVELOPED BY CSIR-INSTI

CSIR-INSTI'S DIGITAL AGRICULTURE INNOVATION

The Council for Scientific and Industrial Research-Institute for Scientific and Technological Information (CSIR-INSTI) has launched the Digital Agriculture Innovation Hub, marking a major step in its digital transformation agenda.

The hub is a comprehensive suite of platforms designed to modernise Ghana's agricultural landscape by improving information access, expanding market reach, and promoting smart farming practices. The cutting-edge platforms are built to serve the needs of farmers, researchers, extension officers, and agribusiness professionals.

KUAFO MARKET PLACE
(Website: https://kuafo.csirgh.com)



Products Page of the Kuafo Marketplace

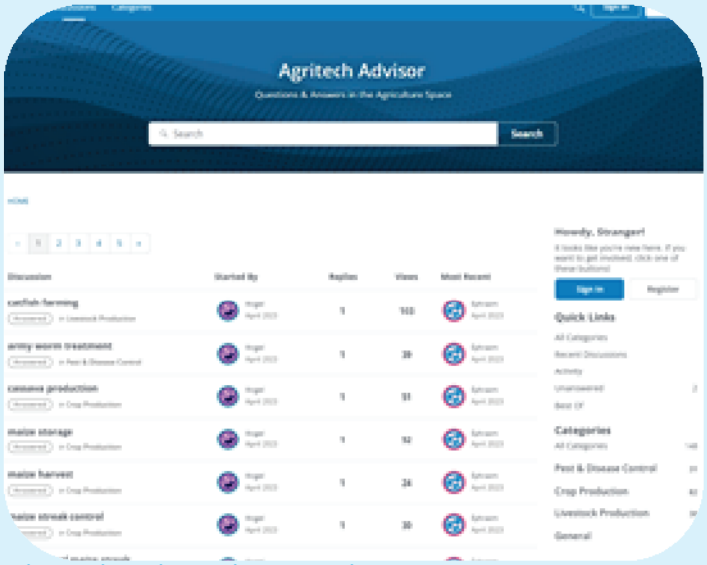
The Kuafo Marketplace is a dedicated online platform and mobile application that connects farmers, agro-input dealers, and marketers.

This e-commerce solution promotes a traceable and fraud-resistant ecosystem,

enabling secure buying and selling of agricultural products and services. Through the platform, farmers can advertise produce, agro-dealers can list inputs, and buyers can engage directly—all while being verified through a managed registration system.

The Kuafo Marketplace directly supports the Modernizing Agriculture in Ghana (MAG) programme's goals of food security and sustainable, market-driven agriculture.

AGRITECH ADVISOR
(Website: https://agritech.csirgh.com)

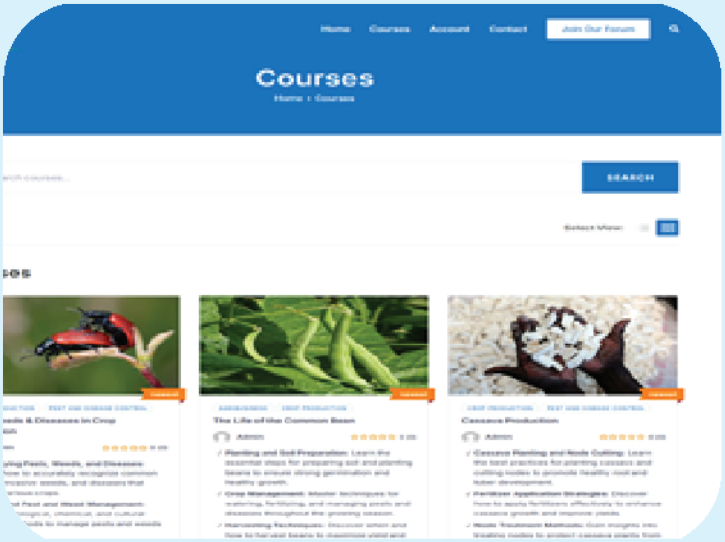


Discussions in Agritech Advisor

Are you looking for expert agricultural advice? The Agritech Advisor offers a real-time Q&A feedback service where users can ask questions and receive responses from CSIR experts, experienced farmers, and fellow practitioners.

Whether you're battling pests, exploring new crops, or troubleshooting soil issues, this crowd-sourced platform empowers you with shared knowledge and practical solutions.

FARM ACADEMY
(Website: https://learn.csirgh.com)



Courses displayed on Farm Academy

Farm Academy is a free e-learning platform that offers online courses in various agricultural technologies. Interested in snail farming? rabbit production? greenhouse crop management? All these are presented in easy-to-follow modules developed by CSIR institutes. The platform promotes lifelong learning and makes agricultural training more accessible to farmers, students and young entrepreneurs across Ghana.

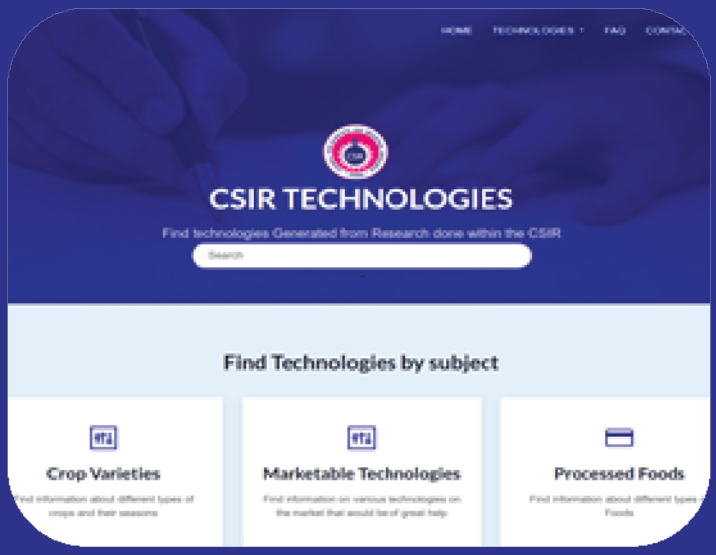
CSIR SPACE (DIGITAL REPOSITORY)
(Website: https://cspace.csirgh.com)

CSIRSpace's Repository (Thesis, research papers etc.)

CSIRSpace serves as the institutional digital repository for CSIR's scholarly work. It houses theses, research papers, conference proceedings, and more—offering open access to Ghana's scientific knowledge base. This platform supports academic visibility, research collaboration, and long-term digital preservation of valuable intellectual assets.

CSIR TECHNOLOGIES PORTAL

(Website: https://technologies.csirgh.com)



Homepage of the CSIR Technologies

This interactive web portal showcases the full spectrum of technologies developed by CSIR, from postharvest innovations to biotech solutions. Content is displayed in multiple formats, making it easy for stakeholders to browse, learn, and adopt the innovations that can drive transformation in their respective sectors.

GHANA AGRICULTURAL DATA HUB (GHANA AGHUB)

(Website: https://ghanaaghub.com)

Services of the AGHub

Access to timely and reliable data is essential for sustainable agriculture. Ghana AGHub is a centralized platform designed for data sharing, policy-making, and evidence-based agricultural practices. Key features include: Weather data, Cropping calendars, Datasets, Extension services and Dashboards for analysis.

The platform supports climate-smart agriculture and informed decision-making across the entire food system.

The Digital Agriculture Innovation Hub by CSIR-INSTI is not just a group of tools—it's a vision for a more connected, resilient, and data-driven agricultural ecosystem in Ghana. By embracing digital transformation, CSIR continues to empower stakeholders at every level of the agricultural value chain—from the smallest holder farmers to national policy-makers.

Courtesy: Mr. John Paapa Awotwi

UP-CLOSE WITH DR. MICHAEL G. DZIWORNU

Dr. Michael Gameli Dziwornu is a Research Scientist who currently heads the Geographic Information Systems Section of the Institute, he holds a Doctor of Philosophy in Urban Studies.

Dr. Dziwornu was a 2024-2025 University of Michigan African Presidential Scholar (UMAPS), where he was hosted at the African Studies Centre and Taubman College of Architecture and Urban Planning. During his time in Ann Arbor, he co-lectured a graduate course on Architectural History at Taubman College focussing on post-independence urban planning in Ghana. He also gave talks at Kalamazoo Valley Community College in Michigan.

As an emerging scholar, Dr. Dziwornu leads or co-leads projects funded by CGIAR, the International Architecture Biennale Rotterdam and Global Disaster Preparedness Centre's (GDPC's) (of the Red Cross) Urban Climate Resilience scheme. Current flagship projects include the Wende Museum's funded "Intersections" exhibition on Cold War architecture; the CSIR-INSTI Map Library that is digitising Ghana's cartographic heritage; the scholars from the University of Texas Rio Grande Valley, University of Ghana,

Ghana Police Service and the Financial Intelligence Centre on data-driven policing and national crime data training Geospatial Intelligence Lab and Crime Research Lab, where he partners with criminologists and scholars from the University of Texas Rio Grande Valley, University of Ghana, Ghana Police Service and the Financial Intelligence Centre on data-driven policing and national crime-data training.

His publication record spans across crime geography, urban studies and sustainability in outlets such as GeoJournal, Crime Prevention and Community Safety, Climate Smart Agriculture and Home Cultures, Journal of Asian and African Studies and he serves as a reviewer for Global Commission on Adaptation, Journal of Criminology, Urban Forum, Urban Studies, European Journal on Criminal Policy & Research, Climate Policy and Heliyon. Biking and hiking are his hobbies.

Dr. Michael G. Dziwornu being recognised for his academic excellence and outstanding contribution to the intellectual community of the University of Michigan, USA.

TIPS

ARTIFICIAL INTELLIGENCE USAGE

- AI sometimes generates convincing but incorrect information, always verify important facts with trusted sources.
- Avoid sharing sensitive personal or confidential information in your prompts, treat AI as a public tool.
- Avoid vague prompts—provide context and details, the more precise your input, the better the output.
- AI algorithms are trained on data. If that data reflects existing societal biases, the AI system is likely to amplify those biases. This can lead to discriminatory outcomes.

GALLERY

RENTAL FACILITIES

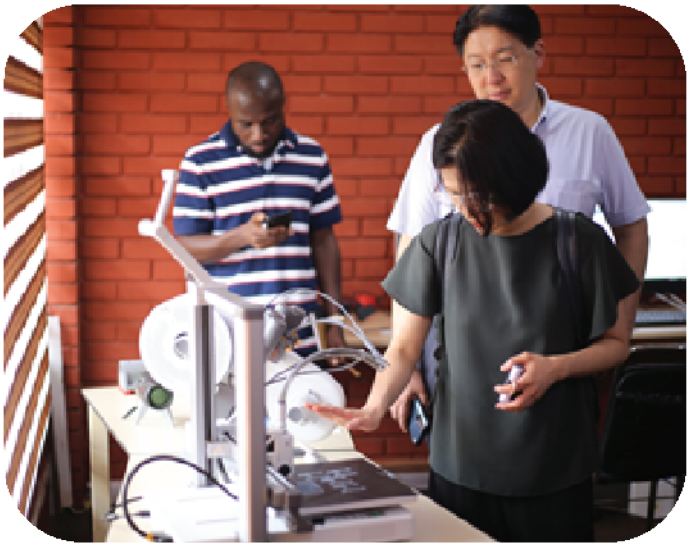
Main conference room

Executive conference room

The CSIR-INSTI has available conference rooms for rental. The main conference room has a capacity of 100 chairs and tables, suitable for large training programmes and conferences. The executive conference room is perfect for board meetings. Public address systems and projectors are available upon request. The serene environment of the Institute within the heart of Accra makes it easily accessible and conducive for productive deliberations. Contact 0242556136 for enquiries.

INSTITUTIONAL ENGAGEMENTS


Discussions being held by parties at CSIR-INSTI




Demonstrations at the Emerging Technologies (3D printing and Robotics) lab and experimental greenhouse

A team from AIOTT-ALT – Korea – paid a working visit to the Institute on 25th February 2025, for a possible project on Smart Transport Management Systems. The team was taken round the labs of the institute to introduce them to on-going projects in Artificial Intelligence.

SEMINARS AND WORKSHOPS

Scenes from the Copyright and Wikipedia training programme organised in collaboration with Global Open Initiative

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