

A Centre of Excellence in Research and Development (R&D) for the East African Community



Dear Reader,

Greetings and welcome to the April 2025 edition of the #UIRI Newsletter, your source for key updates and insights on our journey so far.

As we progress through the year, the Uganda Industrial Research Institute (UIRI) remains committed to advancing industrial innovation, research excellence, and skills development to propel Uganda's economic transformation.

In this edition, we reflect on our unwavering dedication to service, resilience in the face of challenges, and our pursuit of excellence. We highlight our strengthened industry collaborations and capacity-building initiatives that continue to empower local enterprises. Our commitment to fostering sustainable industrial growth remains steadfast, and we eagerly anticipate the opportunities that lie ahead.

Stay engaged with us through our social media channels as we work together toward a dynamic and innovative future.

#WeAreUIRI

ABOUT UIRI

The Uganda Industrial Research Institute (UIRI) is a Government Parastatal Organisation that was established by an act of Parliament in 2002. The Institute is a competence and capability building centre that champions innovations and translates applied research results into practical application

What We Offer

- In-House Incubation
- Virtual Incubation
- Research And Development
- Value Addition And Product <u>Development</u>
- Skills Development
- Business Development Services





UGANDA INDUSTRIAL RESEARCH INSTITUTE RESEARCH PUBLICATIONS









A Lead Agency of Industrialization in Uganda

Technology Transfer and Skills Development

Orbital Welding training





28 Technicians and Engineer Trainers from UIRI completed a 3-week intensive practical skills training on Orbital Welding using the state-of-the-art "Pipeline All-Position Automatic Welding Machine Model BH-PAW-150" by Expert Trainer Mr. Imran Dil Mohamud from Canada.

The Trainers are now equipped to improve pipeline welding efficiency, enhance quality and safety standards and transfer knowledge to other engineering professionals Thanks to this partnership Training of Trainers support from EACOP, Chu Kong Petroleum and Avanti Energy Services Limited.



Women in STEM

UIRI Female Engineers presented at the 2024 Women in Engineering Mentorship Program organised by Kyambogo University to encourage and mentor women in science. Technology, engineering and mathematics (STEM).





Skilling Communities

UIRI is keen to contribute to the 4 Pillars of Industrialisation by addressing appropriate technology and skilled human capital fit for the market needs. Through UIRI's skilling programs, many entrepreneurs and community groups have acquired practical industry skills including;

- Trainees graduated in Textiles, Fashion and Design led by Hon Nyamutooro Phiona, Minister of State for Minerals.
- 69 Trainees graduated in Textiles, Fashion and Design led by Hon Sylvia Bahireira Tumwekwase, Woman MP Kamwenge.
- Training of Trainers for 48 Youth from the Tooro Kingdom Youth Skilling Centre (Electrical Installations, Welding & Fabrication, Woodwork and Bakery).
- Women Entrepreneurs from Mukono District (Charcoal Briquette processing)
- 51 members of Nyarubungo Ward Bamboo Tree Growers, Mbarara City (Bamboo Value Addition, Preservation and Post-Harvest Handling)

Collaborations







Academia meets Industry: Key Visit from Makerere University Dean and School Heads of Departments to bridge the gap between academia and industry for joint research projects and industrial innovations.

Makerura University and the Uganata Industrial Risearch Instante (URI) have agreed to collaborate on advancing greeners, translating applied innovations into practical applications and developing products to stimulate employment and boost Uganada's econosey. On Friday, Prof. Barnabas Nawangwe, the vice-chamcellor of Makerura University, led adelegation to URIVs offices at Namanwe Industrial Park in Makono distinct.

Titis collaborations will enable Makerura researchers to access URIV's facilities, gain exposure to business incubation programmes and benefit from the institute's objectives. URIV's goals include transferring goals include transferring appropriate echnologies for industrial development, bridging the gap between academia and the private sector through commercialisation of research outputs and promoting raw material value addition and research into production processes. transferring appropriate technologies for industrial development, bridging the garp between academia and the private sector through commercialisation of research outputs and promoting raw material value addition and research into production processes.

URI has the capacity to train quantity to the material value addition and promoting the commercial products and across Africa. There are many ways URI and Makerere University centre and producting commercial products in understanding the economics of production. Navangee said Uganda's growing unemployed youth ange, a kwestigs said.

We want to ensure the highlighted the need for investment in infrastructure, with a commercial products in which against the highlighted the need for investment in infrastructure. We need to narrow the gap between which a commercial products in commercial products in which a commercial products in which a commercial product with a commercial product and a commercial products in the products of the p

Makerere University, UIRI partner to support innovations



CAPACITY BUILDING

knowledge, skills and attendes. He noted that many innovators face challenges in accessing affordable financing, which hieders their ability to

Media Relations



"We need to integrate Al into the curriculum; Machine learning is more efficient than human processes" Prof Charles Kwesiga, Executive Director **UIRI**





Ms. Orishaba encouraged Ugandans to join UIRI and leverage its resources to further their innovations. Emphasizing the institute's commitment to serving the nation, she urged entrepreneurs to "innovate, not evaporate." Innovation is a prerequisite for Economic growth



UGANDA INDUSTRIAL RESEARCH INSTITUTE



"A Lead Agency in Industrialisation of Uganda"

Driving Value Addition through Innovation



Transforming bamboo into treasures! Unique and eco friendly products processed at the UIRI bamboo facility.

The Uganda Industrial Research Institute (UIRI) is at the forefront of transforming Uganda's industrial landscape through innovation and value addition. Established in 2002, UIRI serves as a pivotal government-owned research institution dedicated to fostering industrial development by promoting applied research, technology transfer, and entreprer

raw materials into high-quality products that can thrive in both local and international markets. The institute's research and development focus on enhancing productivity and competitiveness across various sectors, particularly in food processing, textiles, ceramics, Bamboo, by leveraging innovative approaches, UIRI aims to elevate the standard of

Ugandan products, making them more marketable and competitive.
UIRI provides an extensive array of services

- designed to facilitate value addition including;

 Innovative Product Development: Crafting new
- products that meet market demands
- Product Testing: Ensuring quality and compliance with industry standards.

 Technology Transfer and Development: Bridging the gap between research and practical
- application.

 Skills Training and Capacity Building:

 Empowering local entrepreneurs with relevant
- Access to State-of-the-Art Equipment: Providing Access to State-or-line-Art Equipment facilities for advanced manufacturing processes. Business Incubation: Nurturing startups in



UIRI's dairy processing technology: Adding value to milk for sustainable growth

various industry sectors to enable thrive in a

competitive entrepreneurship space.

Business Development and Advisory Services:
Offering strategic guidance to enhance business

These initiatives have significantly impacted Uganda's industrial sector, leading to numerous success stories that have resulted in job creation. Collaborating with unar have resulted in job creation. Contaborating with various stakeholders, including small and medium-sized enterprises (SMEs), large industries, and government agencies. UIRI develops innovative solutions that enhance the value of Ugandan products. A notable highlight of our collaborations is the partnership with Riela, a German-based company that manufactures innovative equipment

for value addition to agricultural products. This strategic alliance underscores UIRI's dedication to driving innovation and technology transfer in the agricultural sector, enabling Ugandan farmers and agribusinesses to access world-class solutions that enhance their productivity and competitiveness.

As a center of excellence recognized within the East African Community, UIRI emphasizes sustainable growth through long-term strategies by bridging the gap between academia, government, and industry to ensure that innovations are effectively translated into

Through its comprehensive approach to research, development, and capacity building, UIRI stands as a vital player in Uganda's journey towards rapid industrialization, driving economic growth and improving livelihoods.

MOBILE GRAIN CLEANER AND DRYING REELA



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UIRI participated in the 2025 Harvest Money Expo showcasing technological innovations for agriculture alongside international partners RIELA and seeking to connect with innovators, entrepreneurs and stakeholders in the agriculture sector.

Mr. Asuman Ratib UIRI's Director of Product Development appeared on Sanyuka TV, shedding light on the Institute's pivotal role in innovating for sustainable development





Gallery

UIRI Hosted a delegation of students and faculty members from the High Military School of Algeria to explore UIRI's cuttingedge research facilities.

UIRI hosted Traders from the President's initiative which aims to promote local manufacturing and reduce importation to promote Uganda's industrialisation agenda.







UIRI hosted 133 senior soldiers from National Leadership Institute, Uganda Police, Uganda Prisons, ISO, ESO Wazalendo Sacco and the Uganda Peoples Defence Forces.



UIRI Staff won Best Performance Team in the end of year 2024 Corporate Games Uganda!

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