



Call for Abstracts

2ND ANNUAL APPLIED RESEARCH CONFERENCE

**“Sustainable Technologies, Innovations
and Entrepreneurial Development”**

10TH-11TH MARCH, 2022.

Organised by the Technical Universities in Ghana



The Applied Research Conference of Technical Universities of Ghana (ARCTU-G) is a platform for researchers to discuss basic and currently most important scientific, technical, innovative and entrepreneurial research questions, share the results of recent research findings, make new or renew friendships, and work together to develop new chapters in applied research towards the fight against poverty, hunger, malnutrition and disease burdens in Africa and beyond. The conference is also intended to provide opportunities for departments and faculties in Technical Universities to exhibit their innovative products to the general public. The 1st ARCTU-G was convened in Ho, the Volta Regional Capital of Ghana, by HO Technical University (HTU) from September 9-10, 2019 in collaboration with Ministry of Education under the theme "Positioning Technical and Vocational Education Training (TVET) for Employability and Sustainable Development"

Accra Technical University organizes, together with its partner Universities, Ho technical University, Koforidua Technical University, The Cape Coast Technical University, Takoradi Technical University, Kumasi Technical University, Sunyani Technical University, Tamale Technical University, Wa Technical University, Bolgatanga Technical University, the 2nd Annual Applied Research Conference themed "**Sustainable Technologies, Innovations and Entrepreneurial Development**"

Target participants

This conference aims specifically at bringing together participants from academia, business, and other stakeholders interested in the interplay between entrepreneurial education and sustainable economic development. It is a forum for researchers and practitioners alike. Thus, the event is a response to the popular request to build bridges of communication between the worlds of education and business.

Format of contributions

The conference attempts to be entrepreneurial and innovative. Traditional presentations will still play their role, but participants are encouraged to contribute actively and let their voice be heard in interactive formats. Emphasis will be given to networking possibilities and partner search. Therefore, the two-day program encompasses the following formats:

- Panel Sessions
- World Café
- Speed Dating
- Fish Bowl
- Poster Sessions
- Exhibitions

We encourage you to propose a contribution in one of the following alternative formats:

- a) Presentations (e.g. MS PowerPoint): 20 minutes, plus discussion; to be presented at topical sessions
- b) Panel Sessions: 75 minutes
- c) Interactive Sessions: 75 minutes, using formats such as world café, fish bowl
- e) Presentation at Poster Session (Format A0)

The conference's aim is, above all, to discuss ideas, results, generalizations, hypotheses, and plans among an audience representing institutions from education, business, development studies, and related fields. We encourage the submission of inputs with an explorative or conceptual nature, case studies, and reports concerning successes or failures.

Potential contributors should submit an abstract (**Maximum 250 words/one page**). Deadline for abstract submission is **29th October, 2021**. Please submit your abstract using <https://easychair.org/conferences/?conf=2ndarc>. After acceptance, contributors should prepare a presentation or poster. Submission of papers is required by **31st December, 2021**.

Abstracts, presentations slides and posters will be published on the conference website. Final papers will be published in an electronic conference proceedings volume with DOI number.

Subthemes

The conference theme is structured into nine subthemes. They serve only as an orientation for contributions to the conference. All contributions related to the conference theme are welcome, also those which cover more than one subtheme, and those which cannot clearly be assigned to one of the subthemes.



Subtheme 1 Information and Communication Technology (ICT)

This subtheme deals with issues such as (but not confined to):

- Information Communication Technology for Development and Education
- Data Communication and Computer Networks
- E-Governance and Government
- Technology Computation
- Intelligent Systems
- Signal and Image Processing
- Health Informatics
- Artificial Intelligence (AI)
- Data Science
- Cyber Security
- Cloud, Grid, Edge and Fog Computing
- Information Systems

Subtheme 2 Entrepreneurship, Industry and University Linkages

This subtheme deals with issues such as (but not confined to):

- How can industry-academia cooperation foster entrepreneurship?
- Capacity building in Universities
- Nurturing and strengthening University-industry collaborations
- Human Resource, Skills and Development
- Case studies of entrepreneurship and business in African countries
- Success factors for SME development in industrialized countries, and in Africa
- Financing a business, or start-up, in African countries
- Competences required by African entrepreneurs
- Can entrepreneurial education lead to economic growth?
- Breaking down intra-African trade barriers - a big chance for entrepreneurs or just business as usual?
- Can entrepreneurship contribute to sustainable development?
- Corporate Social Responsibility and its meaning in different sectors (e.g. food and agriculture)
- Sustainable businesses in a COVID-19 era
- Methods to measure and label the social, economic or ecological sustainability of a product
- Responsible business towards smart sustainable cities
- The Sustainable Development Goals (SDGs) as a fundamental for responsible business

Subtheme 3 Innovations in Science and Health

This subtheme deals with issues such as (but not confined to):

- New technologies in land and water conservation, plant, fungi and animal genetics
- Impact of technical university education on sustainable development
- Novel technologies in tourism, hotel, catering, clothing and textile technology
- Data science and analytics, applied mathematics, operational research and risk analysis,
- investment science and finance analytics
- Medical physics, imaging technologies, health technology and informatics and
- Other relevant areas related to sustainable innovations in science and health
- Immunity and infection, metabolic disorders
- Human nutrition, food science and technology
- Biochemical analysis, cell and tissue culture, and novel molecular technologies, developmental immunology
- Herbal medicine and medicinal chemistry, drug discovery, environmental bioremediation and environmental pollution control
- Other relevant areas related to food, health and environmental security

Subtheme 4 Engineering

This subtheme deals with issues such as (but not confined to):

- Food engineering, technology and security
- Construction economics, management, and finance
- Property and project management
- Urbanisation and Development
- New innovations in building services engineering, civil and environmental engineering, land
- Surveying and geo-informatics, computing, industrial and systems engineering
- Sustainable, Resilient Cities and Development
- Mechanical, Civil, Electrical, biomedical and Agricultural Engineering Systems
- Solar, wind Energy and other Sustainable Energy Systems
- Resilient, Inclusive and Sustainable Transport
- Water resources and quality
- Drainage Systems
- Oil and Gas engineering
- Computer and Software Engineering

The Conference Schedule is as follows:

Submission of abstracts: **1st September, 2021**

Review of abstracts, feedback to contributors: **One(1) Month from date of submission**

Deadline for abstract submission is **29th October, 2021**

Submission of final papers: **30th December, 2021**

Conference registration: **3rd January, 2022**

Registration deadline: **15th February, 2022**

Conference days: **10th - 11th March, 2022**

Conference Fees:

Registration fee **GHS 550**

Fees include conference materials, 2 snacks and lunch/day and Networking Dinner

The Cost of accomodation ranges from **GHS 100- GHS 300/night**.

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Abstract Submission:

<https://easychair.org/conferences/?conf=2ndarc>.

For further information visit:

<https://atu.edu.gh/2nd-applied-research-conference/>