

Bayero University, Kano, Nigeria



The **PASET** Regional Scholarship and Innovation Fund



An Africa-led initiative to bridge the skills gap in Applied Sciences, Engineering, & Technology

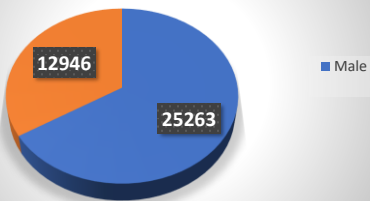
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Bayero University, Kano

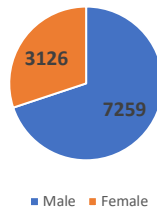
- Established in 1977 as a Federal University by the Bayero University Act

● Four campuses ● 18 Faculties ● 15 Research Centres ● 93 Academic Programmes

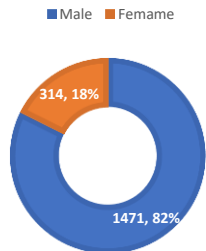
Undergraduate Students



Postgraduate Students



ACADEMIC STAFF



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Centre for Dryland Agriculture (CDA)

Established with the support of MacArthur Foundation (take-off grant of USD 800,000).

2012

Won USD 7,000,000 + USD 1,000,000) from the World Bank to become a Regional ACE in Dryland Agriculture

2014

CDA won another competitive World Bank grant (5million USD) under the ACE III (ACE Impact) programme

2018

CDA became a PASET Africa Host University in the Thematic Area of Climate Change

2019

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Student body comes from across Africa (12 countries), now 13 countries with Tanzania in the PASET 3rd Cohort



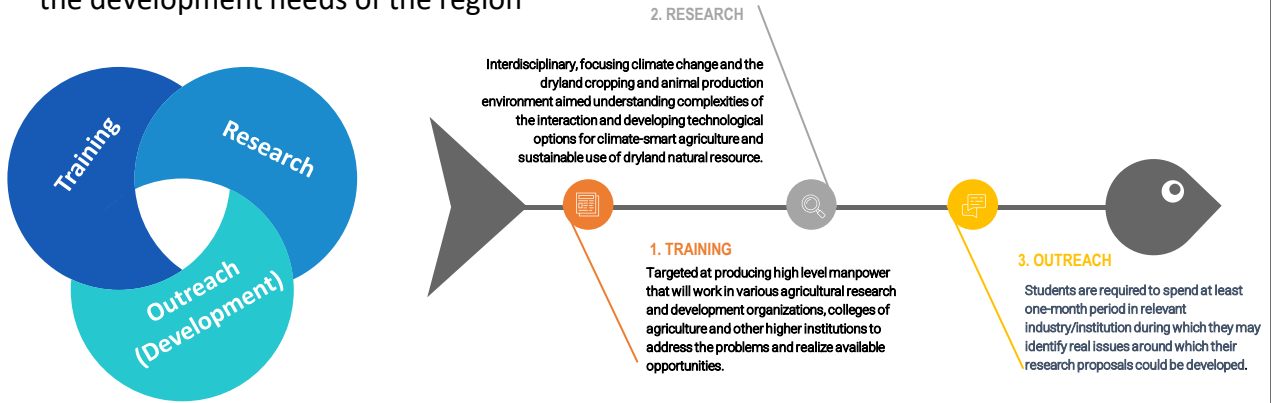
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- The activities of the CDA are in 3 inter-twined areas aimed at imparting skills and addressing the development needs of the region



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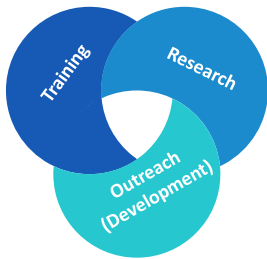
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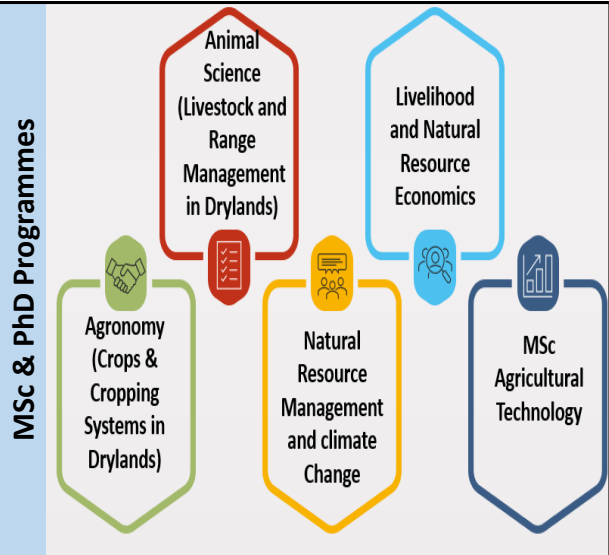
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Our Programmes and Activities

- Through the activities of the CDA, BUK aims to strongly link education and research with the development needs of the region



- All MSc & PhD Programmes have National Accreditation
- MSc Programmes internationally accredited by HCERES
- Process of international accreditation of PhD programmes has begun and will be concluded before the end of 2020



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PhD NRM&CC Programme

Philosophy

To develop informed and skilled manpower from a wide range of disciplines to have proper understanding of the environmental dynamics of the drylands and be able to sustainably manage natural resources in the drylands of sub-Saharan Africa in the light of changing climate and other environmental challenges.

Aim

To provide the training needed for innovative management of the natural resource in the light of the changing conditions of climate and other aspects of the dryland environment using appropriate tools and methods that shall promote problem-solving research that will have positive impact.

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Resources and Facilities



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Conducive learning environment



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Research Priority Areas

- Some of the research topics the Centre is currently working on include:
 - Modeling the impacts of climate change on drylands crops and livestock production
 - Developing tools for site-specific nutrient and water management for agricultural intensification in drylands
 - Use of remote sensing in agricultural decision-making
 - Breeding crop varieties with desired traits for adaptation to dryland conditions
 - Exploration of soil entomopathogenic fungi for the production of myco-insecticides
 - Synergy in soil organic amendments production and use for sustainable dryland agriculture and carbon gain
 - Exploration of nutraceutical potentials of some dryland plants



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- Other research priority areas (NRM&CC) include:
 - Climate-resilient agriculture and forest resources
 - Climate data Science and monitoring tools
 - Climate Change, Land degradation and Ecosystem Service Nexus
 - Economics of climate change adaptation and sustainable livelihoods
 - Research to Support Strategies for Limiting Climate Change impact
 - Food security and climate change
 - Nature-based solutions



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Some on-going Research Projects

S/N	Title of Project	Principal Investigator	Amount of Grant	Funding Source
1	Harnessing benefits for climate change mitigation through irrigation-free indigenous tree establishment: sharing knowledge and building capacity	Dr Martin Dallimer (UK)/Prof. J. M. Jibrin (Nigeria)	£412,729.00	UKPact/BEIS
2	Improving access to clean and modern energy for cooking while reducing land degradation and biodiversity loss in Nigeria	Dr. A. S. Barau	£199,600.00	Royal Society
3	Modelling Crop Rotation Systems for Irrigated Areas: An option for Sustainable Intensification	Prof. M. A. Hussaini	N34,203,240.00	NRF/TetFund
4	Modulating Phytic Acid Biosynthesis in Sorghum Towards Improving Nutrient Bioavailability in the Drylands	Prof. A. A. Manga	N35,944,615.00	NRF/TetFund

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S/N	Title of Project	Principal Investigator	Amount of Grant	Funding Source
5	Closing Sorghum Yield Gaps in Nigeria Sudan and Sahel Savannas through Site-Specific Nutrient Management	Prof. J. M. Jibrin	N38,880,000.00	NRF/TetFund
6	Profiling and Genome Wide Association Studies of Isoflavone and Fatty Acids of Soybean Accessions	Prof. I. B. Mohammed	N30,200,000.00	NRF/TetFund
7	Identification, Validation and Evaluation of Indigenous Methods of Controlling Obnoxious Weeds (Striga spp) in Cereal Crops	Dr. A. Lado	N29,197,750.00	NRF/TetFund
8	Assessment of state-based Agricultural Information Systems in the Provision of Food and Nutrition Security Information in Sudano-Sahelian States in Nigeria	Prof. A. Aminu	N31,350,835.00	NRF/TetFund

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Partnerships

The Centre has built robust strategic partnerships with relevant key organizations involved agriculture and sustainable development



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Finally, a warm welcome to our new PASET Students

S/N	Name	Gender	Nationality
1	Birki Gurmess a	Female	Ethiopia
2	Desta Mulu/Gebeheyu	Female	Ethiopia
3	Tsegaye Girma Bekalo	Male	Ethiopia
4	Tesfau Bekele Adhena	Male	Ethiopia
5	Lilian Motaroki	Female	Kenya
6	Rehema Mrutu	Female	Tanzania
7	Happyness Ngonyani	Female	Tanzania

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Thank You

Contact information

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 facebook.com/cdabuknig

 @cda_buk

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PASET
Partnership for Skills
in Applied Sciences,
Engineering & Technology



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For more information contact

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