

Africa Higher Education Centers of Excellence (ACE) Program

Brochure

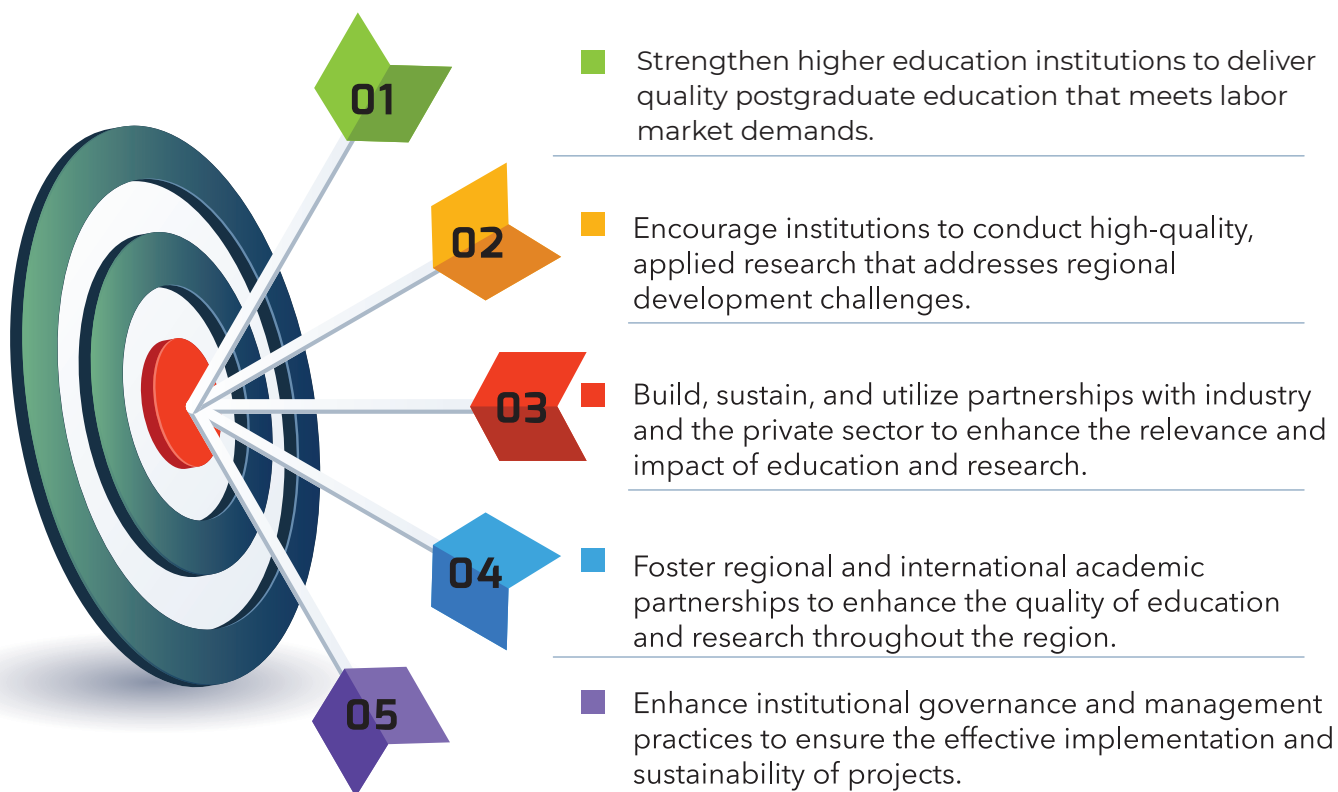
ACE INITIATIVE

The Africa Higher Education Centers of Excellence (ACE) is the first large scale regional program funded by the World Bank in the higher education sector in Africa in partnership with African governments to enhance the capacity of higher education institutions in specialized fields across the continent. The program promotes regional specialization in priority areas aiming to address common regional development challenges through high-quality training and applied research.

Initiated in 2014, the ACE program seeks to bridge the skills gap in priority sectors critical for Africa's economic growth and development. By fostering excellence in higher education and research, the program aims to produce a skilled workforce capable of addressing pressing regional issues, thereby contributing to poverty reduction and sustainable development.

Our Objectives

The primary objectives of the ACE program are to:



Evolution of the ACE Program

1 The first phase, (ACE I)

Launched in 2014 with 22 centers of excellence in nine West and Central African countries. The ACE I project closed in 2018, with a focus on STEM, agriculture, and health areas. The Association of African Universities (AAU), served as the regional facilitation unit (RFU) responsible for capacity building, knowledge sharing, and monitoring and evaluation.

2 Second Phase (ACE II)

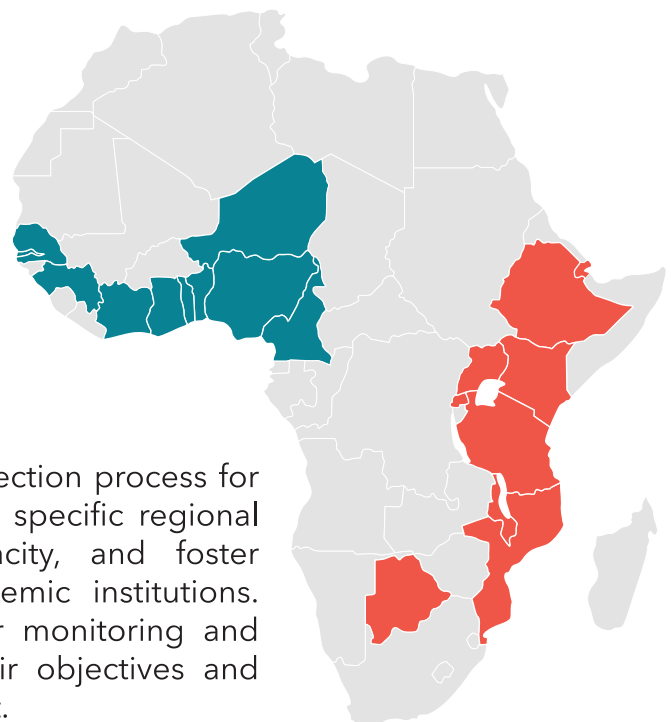
Replicating the ACE I model in Eastern and Southern Africa, the second phase established 24 centers of excellence across eight countries. The ACE II phase, which commenced in 2016, the Inter-University Council for East Africa (IUCEA) oversees the coordination and facilitation of this phase of the ACE program, ensuring the effective implementation of projects and fostering industry-academic engagement.

The final phase of the ACE program, the ACE Impact project, builds on the successes of the two previous phases to further strengthen postgraduate training and applied research. Established in 2018 with 54 centers and scheduled to conclude in June 2025, the ACE Impact introduced new focus areas essential for Africa's economic growth, such as sustainable cities, power and energy, transport, and population health. Here, the AAU continues its role as RFU, focusing on enhancing the quality and relevance of postgraduate education and research and promoting partnerships with industry and international academic institutions.

Our Footprints



The ACE program employs a competitive selection process for centers, emphasizing proposals that address specific regional challenges, demonstrate institutional capacity, and foster partnerships with industry and other academic institutions. Funding is performance-based, with regular monitoring and evaluation to ensure that centers meet their objectives and contribute effectively to regional development.



West and Central African
Eastern and Southern Africa



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Our Focus Areas



Agriculture



Applied
Statistics / Science



Environment



Health



Industry



Education



STEM

Our Impact

The ACE project has played a pivotal role in the ongoing transformation of higher education and research on the African continent. The initiative has significantly strengthened Africa's knowledge ecosystem through strategic partnerships, research breakthroughs, institutional reforms, and innovative solutions, driving sustainable development and economic growth.

Graduate Employability

Graduate Tracer Study, evaluating ACE graduates' employability, entrepreneurial activities, and research output conducted in 2024 revealed:

83%

EMPLOYMENT
RATE



87%

MASTER'S
GRADUATES



10% of master's and **12%** of doctoral graduates starting their own ventures, largely influenced by coursework, private-sector collaborations, and mentorship, and contributing significantly to economic growth and addressing developmental challenges.

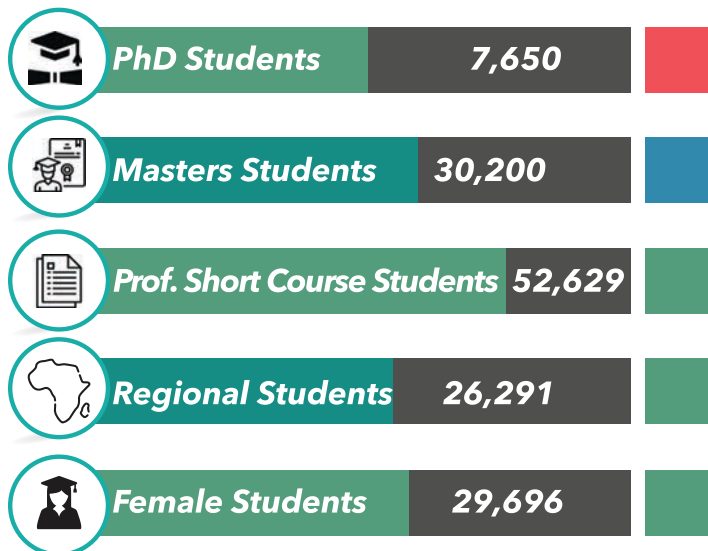


In terms of research,


- **68%** of master's and **80%** of doctoral graduates are involved in **research projects**
- **34%** of master's and **85%** of doctoral graduates **published research papers** during their training,
- **47%** of master's and **69%** of doctoral graduates **continued their research** even after graduation.

Contributions to Quality and Quantity of Africa's post-graduate education

Student Enrollment



Accreditation

- Program Accreditation (National) **620**
- Program Accreditation (International) **133**
- Outreaches (Internships & Exchanges) **18,152**
-  Research Publications **10,351**



External Revenue

US\$183,842,759

Providing tailored solutions to Africa's problems in:

Agriculture



ACALISE (Uganda) - developed a low-cost bio-ash as an alternative storage medium to enhance the shelf life of tomatoes under room-temperature storage conditions for households without refrigerators.

MaRCCI (Uganda) has three active breeding programs for cereals (sorghum), legumes (cowpea), and horticulture (including tomatoes, green peppers, grain amaranth, pumpkin, and watermelon). The long-running cowpea and sorghum improvement programs have developed high-yielding varieties that are currently undergoing licensing for commercialization



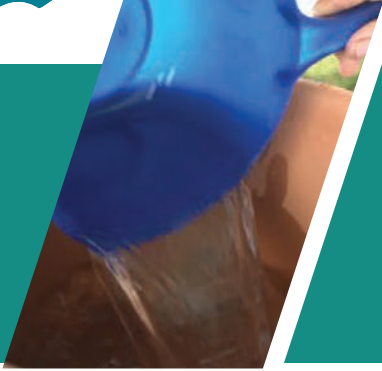
CEESAM (Kenya) - developed a drought-resistant, high-yielding sorghum variety. With the sorghum variety, he developed a nutritious sorghum bread that gained popularity in supermarkets due to its unique taste and health benefits. It retails at \$0.80.

IRPM&BTD (Tanzania) - discovered that rodents' exceptional sniffing abilities could be harnessed for various applications. One successful application is training "Hero Rats" to detect landmines, resulting in the clearance of heavily mined areas in Mozambique, Angola, and Cambodia, which enables safe farming and grazing. Additionally, these trained rats can detect tuberculosis bacteria in human sputum at a remarkable rate of 6-7 samples per minute, vastly outperforming traditional microscopy, which processes the same number in an entire workday.



CEFTER (Nigeria) developed novel processing methods for staple crops, such as cassava, rice, and yam, which extend their shelf life and increase their economic value. These breakthroughs are empowering smallholder farmers and agribusinesses, ensuring a more resilient food supply chain.

CEFTER has pioneered cutting-edge testing protocols to detect contaminants in food products, strengthening quality assurance in the food industry. Through its research, the center has developed solutions to aflatoxin contamination, a significant food safety threat in Africa, thereby safeguarding both public health and export markets.



WACWISA (Ghana) pioneered a low-cost ceramic water filter. The filter is designed to combat the severe contamination of water sources by heavy metals such as arsenic and mercury, addressing traditional purification methods that are costly and largely inaccessible. WACWISA's filter removes up to **98.7%** of these harmful contaminants. WACWISA has trained more than 200 residents in 5 rural areas to manufacture and distribute the filters, allowing the people to own the technology.

WACCI (Ghana) developed high-yielding three varieties of maize



Applied Social Science

The ACE Impact project is fostering evidence-based policy interventions by applying social sciences. The Centre d'Études, de Formation et de Recherche en Gestion des Risques Sociaux (CEFORGRIS) at Université Joseph Ki-Zerbo in Burkina Faso is leading impactful research in social risk management. The center has developed innovative tools to assess vulnerabilities in communities and enhance disaster response frameworks. By collaborating with policymakers, CEFORGRIS is bridging the gap between research and governance, equipping decision-makers with critical data to address socio-economic risks more effectively.

Environment



2iE (Burkina Faso) has innovated a compotoilet facility featuring an ecological dry toilet system. This system comprises a defecation cabin for the hygienic collection of waste and a bioreactor that converts organic matter into mineral-rich compost, thereby reducing sanitation and hygiene issues in rural communities and minimizing water source contamination. With the compost toilet's water valorization feature, the composted material can be repurposed as an organic fertilizer for farming, increasing agricultural productivity through the use of organic fertilizers.

RWESCK (Ghana) developed a passive acoustic sensing system that uses machine learning and advanced signal processing to detect water leaks without physically accessing pipes. This has resulted in more efficient and cost-effective leak detection, as well as reduced water loss and infrastructural damage.



ACECoR (Ghana) launched the Coastal and Marine Conservation Drive Project (COMADRIP) to conduct scientific research on marine biodiversity loss, develop a pilot marine protected area (MPA) management strategy, and secure legal recognition of the MPA by 2026. By protecting fish stocks and preventing habitat destruction, ACECoR ensures sustainable livelihoods for local fishers and maintains the balance of the coastal ecosystem.

Health

CDT-Africa (Ethiopia) - developed over 15 medicinal products, with five submitted for patenting to the national intellectual property office in Ethiopia.



PHARMBIOTRAC (Uganda) - COVIDEX as a supportive treatment for managing viral infections, including COVID-19. This was widely used in Uganda and the neighboring countries to manage COVID-19.



SACIDS (Tanzania) - developed AfyaData—a mobile digital surveillance tool that enables the collection, reporting, analysis, and feedback of real-time data on health events, thereby enhancing outbreak detection, early communication, and rapid response. This innovation has significantly improved disease prevention and control at the source. In recognition of its impact, AfyaData was honored as a Bill Gates Heroes in the Field.





WACCBIP (Ghana) successfully sequenced genome of the Corona Virus (SARs CoV 2) providing real-time data to inform public health responses as well as track mutations contributing to global data in vaccine production.

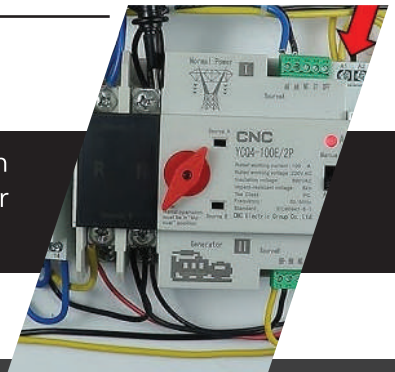
WAACBIP has extended its to the small, secluded, and marginalized community of Adamorobe in Ghana, for centuries, has been known for its unusually high prevalence of hereditary hearing impairment. WACCBIP's groundbreaking research revealed genetic mutations seeks to establish early genetic screening programs to provide families with valuable information on hereditary risks and potential interventions.



ACEGID (Nigeria) was the first to successfully sequence the Corona Virus in Africa. The center confirmed the first case of Ebola in Nigeria within the first six hours of surveillance and, in response, developed rapid diagnostics tests.

Industry

ACEESD (Rwanda) developed Right Lamp Automatic Changeover Switch (RLCS). This device automates the process of switching between solar power and the national power grid.



(WISE-Futures), Tanzania, undertook an impactful project on Sustainable Rural Water Supply and Sanitation Services, resulting in sustainable access to safe water for 23,000 people within its catchment areas. The center established a water supply system with over 100 water points, advanced water treatment technologies, and a payment system. This extendable project can serve 50,000 people by 2030.

African Center of Excellence in the Internet of Things- invented Smart Bee Hive Technology. SBHT is a technology that tracks temperature, humidity, sound, and movement inside and outside the hives. By utilizing sensors, beekeepers can remotely control these parameters through their smartphones. The technology enhances beekeeping activities, ultimately boosting honey production. Hitherto, most of the bees have died during humid temperatures. However, the SBHT enables beekeepers to anticipate, plan for, and avert possible losses.



STEM



(ACETEL) Nigeria is leveraging artificial intelligence (AI) to develop dynamic, inclusive, and accessible e-learning platforms that equip students with essential digital skills, preparing them for the rapidly evolving job market. These platforms personalize learning experiences, adapting to individual student needs, tracking progress, and providing real-time feedback. Through AI-powered chatbots and virtual tutors, students receive instant academic support, ensuring no one is left behind.

(CEA-MITIC) Senegal developed an advanced health information system that streamlines the sickle cell diagnosis process and facilitates the rapid collection of disease data. This system has been implemented in multiple healthcare facilities, enhancing the efficiency of healthcare practitioners. Utilizing artificial intelligence to detect sickle cell disease in newborns, the center also ensures the early diagnosis of the deadly disease and enhances its treatment outcomes



The Africa Centre of Excellence in Materials, Product Development & Nanotechnology (MAPRONANO) in Uganda is exploring nanotechnology applications for renewable energy and medical advancements.

ACE II Program at a Glance

Enrollment

- PhD Students: 1,852
- Master's Students: 7,616
- Professional Short Course Participants: 18,821
- Regional Students: 7,791
- Female Students: 10,388

Accreditation

- Programs Nationally Accredited: 310
- Programs Internationally Accredited: 39

Key Indicators

- Outreach & Exchanges: 3,667
- Research Publications: 4,229
- External Revenue Generated: \$47,530,865

A. Enhanced quality & employability

- Strategic Global Partnerships:
 - ACEs successfully secured national accreditation for 310 programs.
 - 39 programs achieved prestigious international accreditation, primarily through leading European agencies (AHPGS, AQAS, ASIIN).
 - Eight joint academic programs were developed and accredited in collaboration with globally recognized universities (e.g., CREATES/University of Glasgow, INSEFOODS/Chalmers University, ACALISE/University of Sacred Heart of Milan).
 - CESAAM, hosted at Egerton University, MSc in Agribusiness Management and Crop Protection, was benchmarked at Virginia Tech University (USA) and then accredited.
- Enhanced Regional Collaboration for enhanced regional professional mobility:
 - Bilateral program accreditations were achieved through strong partnerships between ACEs in Kenya/Tanzania and universities in Ethiopia/Uganda. For instance, the IRPM&BTD at Sokoine University (Tanzania) has developed three MSc programs in Applied Pest Management in Agriculture, which are currently being offered in Ethiopia and Uganda.
 - ACEIDHA (University of Zambia) pursued regional accreditation with Namibia's Veterinary Council to enhance alumni mobility across the region significantly.
- Industry-Aligned Program Development:
 - Eduardo Mondlane University's CS-OGET, in partnership with international oil multinationals (Anadarko, SASOL, Technip) and 12 universities (USA, France, and South Africa), developed and accredited three industry-relevant Master's programs, incorporating teaching, research, and internship opportunities.

- Enhanced Faculty Capacity and Teaching Quality:

- ACEs have significantly invested in faculty development, awarding PhD scholarships and training to over 50 academic staff in Uganda and Zambia. PHARMBIOTRAC successfully retained 19 graduates as faculty. Additionally, approximately 3,070 faculty members across Uganda, Kenya, Tanzania, and Zambia received training in pedagogy, research supervision, and curriculum development, including specialized digital education training at WISE-Futures.

- Enhanced Relevance and Employability:

- A tracer study by ACEWN (Addis Ababa University) reveals that 81.8% of graduates find their studies highly relevant to their employment. Graduates are successfully placed in teaching, research, and professional roles, citing curriculum quality, faculty expertise, and research opportunities as key program strengths. Improved employment status, high satisfaction with learning resources, and workplace competency alignment were also reported.

Transformative Upgrades to Teaching and Research Infrastructure:

The ACE initiative has significantly modernized teaching and research facilities across participating institutions, enabling high-quality training and research. Key improvements include:

- Advanced Research Laboratories and Equipment:

- Investment in state-of-the-art laboratories, such as the soil laboratory at ACALISE, the Scanning Electron Microscope at MAPRONANO, and pharmaceutical laboratories at PHARMBIOTRAC, has significantly bolstered research capabilities, enabling cutting-edge scientific inquiry.

- Digital Learning Infrastructure:

- The implementation of advanced digital learning infrastructure, including smart classrooms and video conferencing facilities at universities like the University of Rwanda, Haramaya University, and Addis Ababa University, has modernized teaching methodologies and expanded access to quality education, particularly crucial in the post-pandemic era.

- Modernized Administrative and Innovation Hubs:

- Development of modern administrative and incubation spaces, such as the Africa Bio-Hub at CDT-Africa and administrative blocks across multiple ACEs, fosters collaboration, innovation, and efficient management, creating a conducive environment for research and knowledge transfer.

- Improved Student Living and Learning Environments:

- Renovation of student accommodation has enhanced living and learning conditions, contributing to improved student well-being and academic performance.

B. Cross-Sectoral Contributions of ACEs to Governments and the Region

This highlights the diverse and significant contributions of African Centres of Excellence (ACEs) across various sectors, including health and agriculture, demonstrating their impact on government policies, regional capacity building, and community well-being.

Policy Influence and Governance Enhancement:

- ACEs are directly influencing national policies, ensuring research outcomes translate into actionable strategies.

Examples:

- CDT-Africa's contribution to the adaptation of Ethiopia's Primary Healthcare Clinical Guidelines (EPHCG).
- ACEPHEM's influence on the development of Malawi's Traditional and Complementary Medicine policy.
- ACALISE's contributions to Uganda's National Policy on Organic Agriculture.
- WISE-Futures participation in the review of Tanzania's National Water Policy.

Innovation and Economic Diversification:

- ACEs are driving innovation through the development of new products, technologies, and services, fostering entrepreneurship and job creation.

Examples:

- PHARMBIOTRAC's commercialization of medicinal products and incubation of 18 startups, creating over 45,700 jobs.
- MaRCCI's development of superior cowpea varieties with commercial potential.
- IRPM&BTD's development of biosensor technology for landmine and disease detection.
- ACE-ESD's product launches and intellectual property generation (4 patents published, 37 in pipeline, 76 trademarks, and 147 copyrights) and creation of at least 1,370 jobs (casual and permanent) through start-ups.

Regional Capacity Building and Public Health Security:

- ACEs are bolstering regional capacity in critical areas such as disease surveillance, diagnostics, and vaccine development.

Examples:

- Africa CDC's role in the regional vaccine talent development network.
- ACEIDHA's strengthening of Zambia's diagnostic capacity during the COVID-19 and anthrax outbreaks.
- SACIDS's capacity building for Marburg virus diagnosis in Tanzania.

- SACIDS's involvement in sequencing five complete genomes of the African Swine Fever Virus (ASFV) demonstrates an enhanced capacity and preparedness to detect potential future outbreaks.
- ACEIDHA's research identifying Ebola-carrying organisms in bats, enhanced Zambia's preparedness for potential outbreaks.

Community Empowerment and Social Impact:

- ACEs are benefiting communities through targeted interventions that improve healthcare, livelihoods, and social well-being.

Examples:

- CDT-Africa's research improved outcomes for over 2,500 lymphoedema patients by integrating morbidity management into routine care and reducing stigma.
- IRPM&BTD's mass rodent trap barrier technology has been adopted by over 3,100 rice farmers in parts of Tanzania (Iringa, Kilombero, Morogoro, Mkindo, Turiania), reducing crop losses.
- INSEFOODS's training of over 277 farmers in insect rearing.

Agricultural Advancement and Food Security:

- ACEs are addressing critical agricultural challenges, including aflatoxin mitigation, crop improvement, and sustainable land management.

Examples:

- CESAAM's aflatoxin laboratory and student training in cereal toxicity research are crucial for aflatoxin mitigation.
- INSEFOODS's promotion of insect-based food and feed.
- MaRCCI's gene bank and development of improved crop varieties.
- Impact: Enhancing food security and promoting sustainable agricultural practices.

C. Driving African Integration through Higher Education: The ACEs Impact

The Africa Centres of Excellence (ACEs) are playing a pivotal role in fostering regional integration across Africa by significantly enhancing staff and student mobility within higher education. This initiative is a cornerstone for building a more interconnected and collaborative academic landscape.

Key Achievements in Mobility:

- Master's Student Mobility:
 - An analysis of 4,627 master's student records in Eastern and Southern Africa reveals a net regional gain in student numbers, with 17.6% inward mobility (regional students studying in ACEs) exceeding 13% outward mobility (students from the region studying elsewhere).

- Example: Kenya's ACEs achieved a 28% inward mobility rate (119 regional students), showcasing their capacity to attract talent. Jaramogi Oginga Odinga University (JOOUST)'s ACE, INSEFOODS, alone hosted 67 regional students between 2016-2023.

- Faculty & PhD Student Exchanges:














- Over 3,600 faculty and PhD student exchanges (minimum two weeks) have been facilitated, promoting vital research and teaching collaborations.
- A detailed review of 2,622 exchanges indicates a 28% regional inward mobility and 16.5% regional outward mobility.
- These exchanges extend globally, involving nearly 200 faculty/PhD students from 24 non-ACE II African countries and 164 from outside Africa (including Europe, Asia, and North America), underscoring the broad international reach of the ACE program.

Impact on Regional Integration:

The robust inward mobility rates for both students and faculty, coupled with the extensive global exchanges, demonstrate the ACEs' effectiveness in:













- Attracting and retaining talent within the region.
- Building a critical mass of highly skilled professionals.
- Strengthening regional research networks and academic collaboration.
- Enhancing the internationalization of African higher education.

Centers















THEMATIC DISCIPLINE	CENTERS	COUNTRY	CONTACT PERSON
AGRICULTURE	1. African Centre of Excellence for Climate Smart Agriculture and Biodiversity Conservation (Climate SABC)	Ethiopia	 Prof. Mengistu Urge Letta urgetta@yahoo.com +251-985216280
	2. African Centre of Excellence for Innovative Rodent Pest Management & Biosensor Technology Development (IRPM&BTD)	Tanzania	 Prof. Apia W. Massawe massawe@suanet.ac.tz apiamas@yahoo.com/ +25575431427
	3. African Center of Excellence in Agriculture for Food and Nutritional Security CEA-AGRISAN	Senegal	 Prof. Eh Samba Ndao Sylla Samba.sylla@ucad.edu.sn +234-776471424
	4. African Center of Excellence on Climate Change, Biodiversity and Sustainable Agriculture CEA-CCBAD)	Cote d'Ivoire	 Prof. Daouda Kone daoudakone2013@gmail.com +225-08451726
	5. African Centre for Agro-ecology & Livelihood Systems (ACALISE)	Uganda	 Dr. Jude Ssebuwufu jssebuwufu@umu.ac.ug jssebuwufu@yahoo.com +256774429211
	6. Center for Dryland Agriculture (CDA)	Nigeria	 Prof. Jibrin Mohammed Jibrin jibrin@buk.edu.ng +234-8037034363
	7. Center for Food Technology and Research (CEFTER)	Nigeria	 Prof. Barnabas Achakpa Ikyo aikyo@bsum.edu.ng +2348185069529
	8. Centre of Excellence in Sustainable Agriculture & Agribusiness Management (CESAAM)	Kenya	 Prof. George Owuor g.owuor@egerton.ac.ke +254-722831634 +254-512113168
	9. Center of Excellence in Sustainable Use of Insects as Food and Feeds (INSEFOODS)	Kenya	 Dr. Darius Andika oandika@yahoo.co.uk oandika@jooust.ac.ke +254-721533596
	10. Centre of Excellence for Aquaculture and Fisheries Science (Aquafish)	Malawi	 Prof. Daud Kassam dkassam@bunda.luanar.mw +265999103246
	11. Collaborating Centre for Research, Evidence, Agricultural Advancement & Teaching Excellence & Sustainability (CREATES)	Tanzania	 Prof. Hulda Shaidi Swai huldaswai@gmail.com hulda.swai@nm-aist.ac.tz +255768418317
	12. Makerere University Regional Centre for Crop Improvement (MaRCCI)	Uganda	 Dr. Richard Edema redema12@yahoo.com edema14@gmail.com redema@caes.mak.ac.ug +256-79-3-529838 +256-75-0-589335
	13. Regional Center for Excellence on Pastoral Productions (CERPP)	Niger	 Prof. Hamani Marichatou marichahamni@gmail.com +227-99499421

CENTERS














THEMATIC NETWORK	CONSTITUENT ACE CENTERS	NETWORK OBJECTIVES	KEY ACHIEVEMENTS
AGRICULTURE	14. Regional Center of Excellence in Poultry Sciences (CERSA)	Togo	 Prof. Kokou Tona jaktona@gmail.com +228-90201646
	15. West African Center for Crop Improvement (WACCI)	Ghana	 Prof. Eric Danquah edanquah@wacci.ug.edu.gh +233-244632088
Applied Social Science	16. African Center of Excellence in Statistical Training (CEA-ENSEA)	Cote d'Ivoire	 Prof. Kouassi Hugues Kouadio hkouadio@yahoo.fr hkouadio@ensea.ed.ci +225-07752579
	17. African Center of Excellence for Innovative and Transformative STEM Education (ACEITSE)	Nigeria	 Prof. Peter O. Okebukola peterokebukola@yahoo.com +234-8022904423
	18. African Center of Excellence on Pedagogies in Engineering Education (ACENPEE)	Nigeria	 Prof. Raymond Bacsmund Bako rayajeye@gmail.com +234-8037037436
	19. Center of Excellence in Innovative Teaching/Learning of Mathematics and Sciences for sub-Saharan Africa (CEA/IEA-MS4SSA)	Niger	 Prof. Saidou Madougou nassara01@yahoo.fr +227-96265250
	20. Center for Studies, Training and Research in Social Risk Management (CEFOGRIS)	Burkina Faso	 Prof. Magnini Seindira mseindira@yahoo.fr +226-71262826
APPLIED STATISTICS EDUCATION	21. Regional Center of Excellence on Sustainable Cities in Africa (CERVIDA-DOUNEDON)	Togo	 Prof. Coffi Aholou caholou@cervida-togo.org kaholou@univ-lome.tg +228-90113834 +228-70413867
	22. African Centre of Excellence for Data Sciences (ACE-DS)	Rwanda	 Dr. Charles Ruranga cruranga@gmail.com cruranga@ur.ac.rw
	23. African Center of Excellence for Teaching and Learning Mathematics and Science (ACEITLMS)	Rwanda	 Prof. Lakhani Lal Yadav yadavll@yahoo.com +250788590715
ENVIRONMENT	24. African Center of Excellence for the Valorization of Water into High Value-Added Products (VALOPRO)	Cote d'Ivoire	 Prof. Kouassi Benjamin Yao benjamin.yao@inphb.ci +225-07800519
	25. African Center of Excellence for Water and Sanitation (C2EA)	Benin	
	26. African Center of Excellence in Coastal Resilience (ACECOR)	Ghana	 Prof. Denis Worlanyo Aheto daheto@ucc.edu.gh +233-242910056 +233-204822680
	27. Africa Mining and Environment Mining Center of Excellence (CEA-MEM)	Cote d'Ivoire	 Prof. Kouakou Alphonse Yao alphonse.yao@inphb.ci alphayao@yahoo.fr +225-57079537 +225-05666503

THEMATIC NETWORK	CONSTITUENT ACE CENTERS	NETWORK OBJECTIVES	KEY ACHIEVEMENTS
ENVIRONMENT	28. Center of Excellence for Training and Research in Water and Environmental Sciences and Technologies in West and Central Africa (2iE)	Burkina Faso	 Prof. Harouna Karambiri harouna.karambiri@2ie-edu.org +226-78758077 +266-76665152
	29. Center of Excellence in Agriculture, Environment and Health Societies (CEA-AGIR)	Senegal	 Prof. Babacar Faye bfaye67@yahoo.fr babacar2.faye@ucad.edu.sn +221-338251998 +221776394952
	30. Emerging Center in (CEMS)	Guinea	 Dr Mory Kourouma kourouma.mory54@gmail.com +224-628585555
	31. Emerging Mining Environment Center (EMIG)	Niger	 Prof. Ousman Mahamadou nabourkou@yahoo.fr +227-96974096
	32. Regional Water and Environmental Sanitation Center Kumasi (RWESCK)	Ghana	 Prof. Sampson Oduro-Kwarteng sokwarteng@gmail.com +233-244598999
	33. West African Center for Water, Irrigation, and Sustainable Agriculture (WACWISA)	Ghana	 Prof. Felix Kofi Abagale fabagale@uds.edu.gh +233-264869838 +233-206663848
HEALTH	34. Africa Centre of Excellence for Public Health and Herbal Medicine (ACEPHEM)	Malawi	 Prof. Adamson Muula amuula@medcol.mw +265884233486
	35. African Center of Excellence for Drug Research Herbal Medicine Development and Regulatory Science (ACEDHARS)	Nigeria	 Prof. Olukemi A. Odukoya olukodukoya@unilag.edu.ng +234-8063444373
	36. African Center of Excellence for Genomics of Infectious Diseases (ACEGID)	Nigeria	 Prof. Christian Happi happic@run.edu.ng +234-8023383684
	37. Africa Centre of Excellence in Infectious Diseases of Humans and Animals (ACEIDHA)	Zambia	 Prof. Bernard M. Hang'ombe mudenda68@yahoo.com bhangombe@unza.zm +260-977326288 +260211293727
	38. African Center of Excellence for Mother and Child Health (ACE-SAMEF)	Senegal	 Prof. Ousmane Ndiaye ousmane2.ndiaye@ucad.edu.sn +221-776399600
	39. African Center of Excellence for Mycotoxin and Food Safety (ACEMFS)	Nigeria	 Prof. Hussaini Anthony Makun hussaini.makun@futminna.edu.ng +2348040000000
	40. African Center of Excellence for Neglected Tropical Diseases and Forensic Biotechnology (ACENTDFB)	Nigeria	 Prof. Yakubu K. Ibrahim ykeibrahim@gmail.com +234-8037001988
	41. African Center of Excellence for Population Health and Policy (ACEPHAP)	Nigeria	 Prof. Hadiza Galadanci hgaladanci@yahoo.com +234-8033210047

CENTERS

THEMATIC NETWORK	CONSTITUENT ACE CENTERS	NETWORK OBJECTIVES	KEY ACHIEVEMENTS
HEALTH	42. African Center of Excellence for the Prevention and Control of Communicable Diseases (CEA-PCMT)	Guinea	 Prof. Alexandre DELAMOU adelamou@cea-pcmt.org +224-6285947 65 +224-656122927
	43. African Center of Excellence for Training, Research, and Expertise in Medicinal Sciences (CEA-CFOREM)	Burkina Faso	 Prof. Rasmane Semde rsemde@yahoo.fr +226-70243512
	44. African Center of Excellence in Biotechnological Innovations for the Elimination of Vectorborne Diseases (ACE-ITECH-MTV)	Burkina Faso	 Prof. Aboulaye Diabete npiediab@gmail.com 00226-71695686
	45. African Center of Excellence in Public Health and Toxicological Research (ACE-PUTOR)	Nigeria	 Dr Daprim Ogaji daprim.ogaji@uniport.edu.ng +234-8037092225
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