The PASET-Regional Scholarship and Innovation Fund for Applied Sciences, Engineering and Technology in Tanzania









Rsif in Tanzania



Rsif Designed for Impact



Building sustainable doctoral training, research and innovation ecosystems for development in Africa

General Fund

— Create a stock of highly skilled scientists, professionals and innovators Objectives in ASET areas

Address imbalances in the number of women and disadvantaged groups in **ASET fields in Africa**

Build African university capacity to provide relevant ASET training

Window 1:

Scholarships, institutional capacity building, partnerships & networks

Window 2:

Research Grants

Window 3:

Innovation Grants and creation of innovation environments

Rsif supports five priority thematic areas

ICTs including big data and artificial intelligence



Food security and agribusiness



Minerals, mining and materials engineering



Energy including renewables



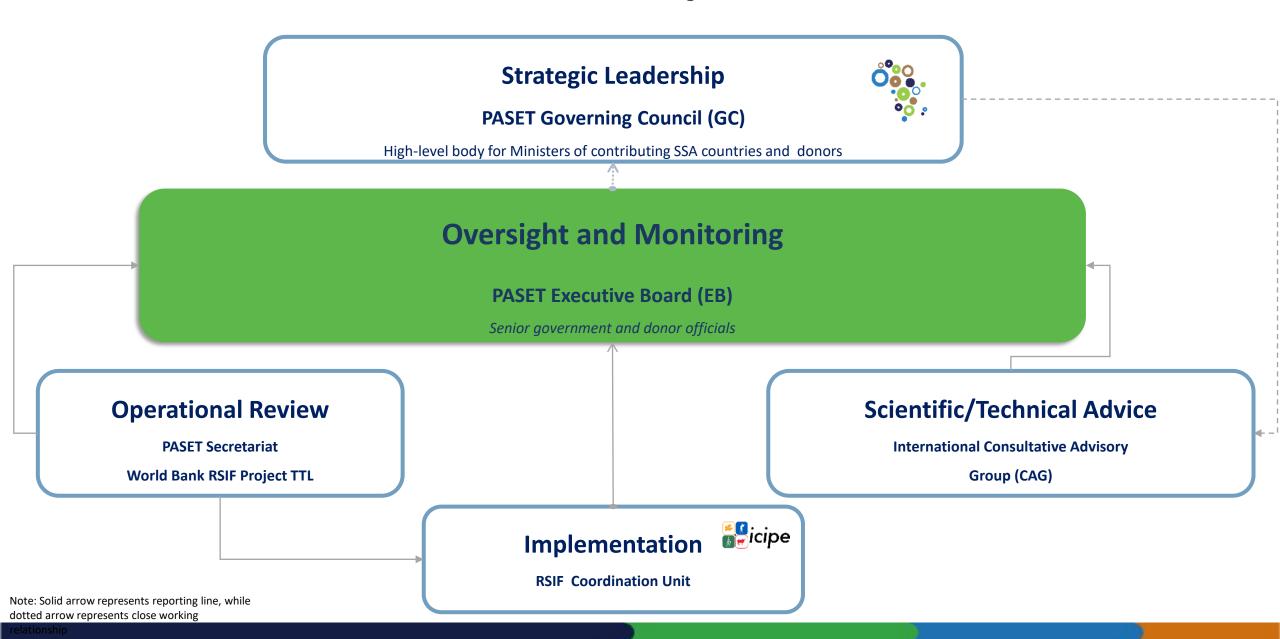
Climate change

Rsif is a unique African initiative

- 1. Owned and managed by African governments through PASET (11 African governments)
- 2. To-date, investments from 9 African governments (between US\$1 -6 million each), the World Bank, European Union, Korea and other funders
- 3. Managed by an African led international research/innovation and training institution *icipe*
- 4. Regional approach to grow Africa's STI agenda
- 5. Sustainability vision to grow Rsif into a Pan-African science fund
 - establish a Permanent fund
 - exploring innovative financing and leveraging of private capital, e.g. blockchain technology, carbon credit, venture capital fund.



Inclusive, Efficient and Transparent Governance

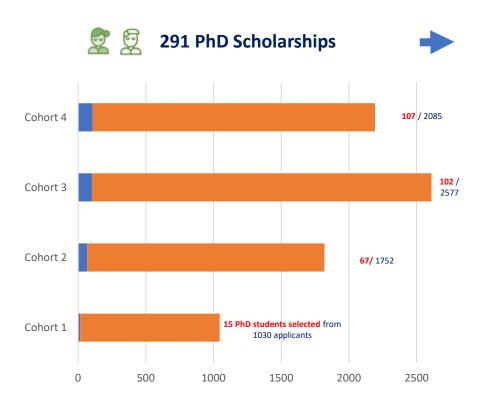


icipe Rsif - Fostering Excellence



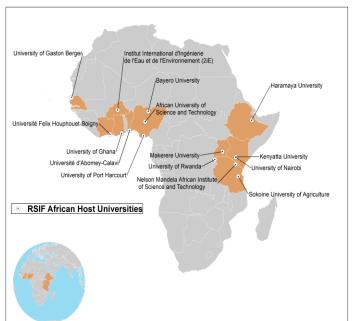
- Highly Competitive Selection- Ongoing Mentoring

Selective MatchingHigh Level of Interaction



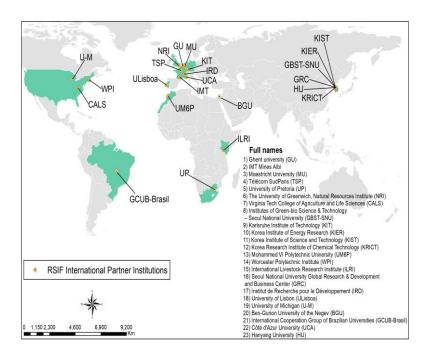
15 African Host Universities

(4 AHUs admit first Rsif students in 2022)





23 International Partner Institutes/universities



Rsif PhD Sandwich Model



Enables scholars and faculty members access to:

- A unique breadth of knowledge and experience
- Highly skilled research expertise from the partner institutions
- Research and training resources/ facilities from across the globe

Year 1

- Admission for PhD program
- Matching with suitable IPI supervisor
- Develop research proposal support from both supervisors
- Initiate research
- Complete coursework at AHU

African Host University (AHU)

International Partner Institution (IPI)

- 6 months to 2 years as a visiting scholar/ researcher
- Conduct major part of doctoral research
- Coursework as required by IPI
- Write scientific papers

Years 2 & 3

Year 3 /4

1+ year

- Finalise research
- Write scientific papers
- Complete thesis
- Thesis defence is heard by both parties from AHU and IPI
- Degree awarded by AHU
- Graduation

African Host Institution (AHU)

Rsif and Tanzania



Tanzania is part of PASET

 Tanzania participates in PASET Executive Board: Prof. Maulilio Kipanyula

• Investments in Rsif in pursuit of common agenda:

- supporting the building of international level PhD programmes anchored within African universities (i.e. NM-AIST, SUA)
- accelerating high quality PhD training
- strengthening capacity for innovative research and respond to African challenges
- Significant benefits to Tanzania





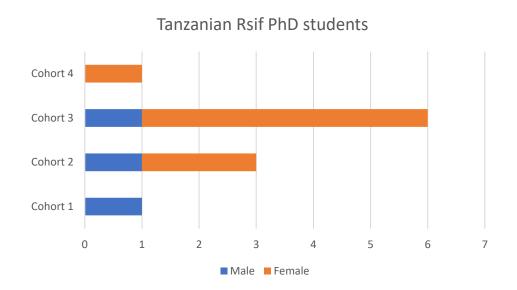
Photos: Tanzania government and university representatives participated in PASET forums and Rsif conference

Tanzanian PhD Students Overview





- 11 Tanzanian Rsif doctoral scholars (73% women)
- Scholars registered under 4 thematic areas in 4 African Host Universities
- 10 journal publications to date



Thematic Area	African Host University	Scholars
Climate Change	Bayero University Kano, Nigeria	2
ICTs including Big Data & Artificial Intelligence	University of Rwanda, Rwanda	2
Minerals, Mining and Materials Engineering	Nelson Mandela African Institution of Science and Technology, Tanzania	3
Food Security and Agribusiness	Sokoine University of Agriculture, Tanzania	4

Building Tanzania's Research and Training Ecosystem: Tanzanian nationals' Rsif PhD Students (11) Status



Cohort 1

- •1 Scholar completed PhD Studies and about to graduate
- 2 journal publications

Cohort 2

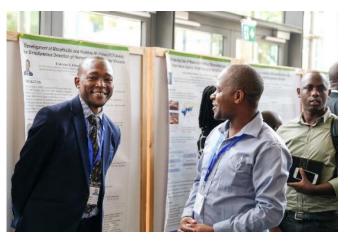
- •3 scholars who started their international research placements
- •7 journal publications

Cohort 3

- •6 scholars at their respective AHUs and collecting data in the field
- Scholars to start their international research placements
- 1 journal publication

Cohort 4

•1 scholar have reported to their AHU, in first year of study





Tanzanian Rsif PhD Students Status: Cohort 1 and 2



Name of Student	Gender	RSIF African Host University	PhD Research Project Title	Status	International Partner Institution
Emmanuel Kifaro	Male	Sokoine University of Agriculture, Tanzania	Development of Microparticles qPCR for the Detection of Selected RNA viruses from Non-Invasive Animal Specimens	Finalizing on writing thesis in preparation for thesis defence	Korea Institute of Science and Technology (KIST)
				2 journal publications	
			Cohort 2 (2020)		
Ruth Lorivi Moirana	Female	Nelson Mandela African Institution of Science and Technology, Tanzania	Investigation of the efficiency of biochar on enhancing methane production and denitrification process in wastewater treatment	4 journal publications Completed sandwich programme	University of Greenwich, Natural Resources Institute (NRI)
Tusekile Alfredy	Female	Nelson Mandela African Institution of Science and Technology, Tanzania	Removal of heavy metals from water by capacitive deionization electrode materials derived from chicken feathers	Preparing for research placement 3 journal publications	University Mohammed VI Polytechnic (UM6P), Morocco
Julius Joseph Mwanandota	Male	Sokoine University of Agriculture, Tanzania	Genomic Surveillance of important sheep and goat respiratory diseases for improved productivity through strategic diseases control in Tanzania	Preparing for research placement	ILRI, Kenya

Tanzanian Rsif PhD students - Cohort 3 & 4

Name	Gender	African Host University	Research Topic	Status	International Partner Institution					
			Cohort 3 (2021)							
Happyness Ngonyani	Female	Bayero University Kano, Nigeria	Assessing indigeneous knowledge, technology and its adoption to policies related to transboundary water resources and landscape management as a tool for climate change mitigation in African communities		University of Ghent, Belgium (to be confirmed)					
Rehema Mrutu	Female	Bayero University Kano, Nigeria	Microbial engineering to mitigate methane emission in ruminant livestock		To be confirmed					
<u>Hashimu Hamisi</u>	Male	Nelson Mandela African Institution of Science and Technology, Tanzania	High strength geopolymer concrete (HSGC) cured at ambient temperature with improved workability; A blend of nanosilica, RHA and Pugu Kaolin in Tanzania		To be confirmed					
Mercy Mmari	Female	Sokoine University of Agriculture, Tanzania	Edible insects of Tanzania; Diversity, nutrients composition and contribution to livelihood among Tanzanian societies		Korea Institute of Science and Technology (KIST) (TBC)					
Sambwe Fundikira	Female	Sokoine University of Agriculture, Tanzania	Efficacy assessment of bio-control preventive actions in maize to reduce human mycotoxin exposure in Tanzania		To be confirmed					
Theofrida Maginga	Female	University of Rwanda, Rwanda	Using machine learning model for image-based early disease detection on cereal crops in Tanzania	1 journal publication	GRC-SNU, Seoul National University, Korea					
	Cohort 4 (2022)									
Rehema Hamis Mwawado	Female	University of Rwanda	Development of a TinyML Framework for Crop Disease Classification Tasks on Constrained Embedded Devices		To be confirmed					

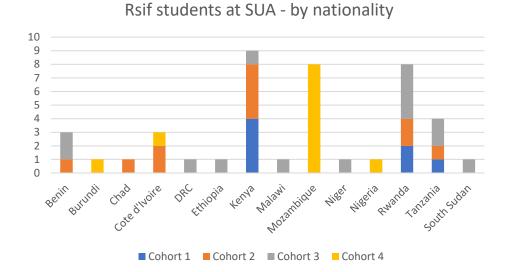
Benefits to Tanzanian Institutions



Sokoine University of Agriculture (SUA) – an Rsif African Host University since 2017

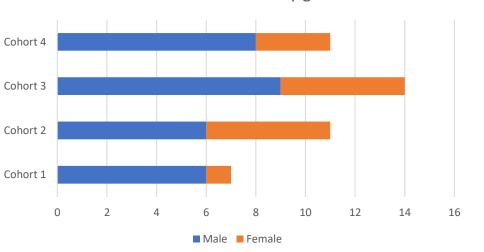


- Africa Center of Excellence for Infectious
 Diseases of Humans & Animals in Southern & Eastern Africa (SACIDS)
- Hosting 43 Rsif PhD students (33% women)
- 14 nationalities represented
- 29 journal publications to date









Rsif PhD students at SUA – Cohort 1

No	Name	Nationality	Gender	Research topic	Status	International Partner Institution
1	Dr. Gahamanyi Noel	Rwanda	Male	Assessing the molecular epidemiology and antimicrobial susceptibility profiles of Campylobacter species from human and animal feces in Tanzania and Korea	Graduated 2021 Best SUA postgraduate student award 2021; 8 journal publications	Korea Institute of Science and Technology (KIST), Korea
2	Dr. Jean Nepomuscene Hakizimana	Rwanda	Male	Determination of the genetic variation and epidemiology of African swine fever virus in selected countries of Eastern and Southern Africa	Graduated 2021 5 journal publications At SUA on post-doc	University of Ghent, Belgium
3	Maxwell Wambua Waema	Kenya	Male	Detection of selected human respiratory viruses using hydrogel microparticles based multiplex RT- Qpcr	Working on publishing two papers before thesis defense 1 journal publication	KIST, Korea
4	Dr. Sylvia Wairimu Maina	Kenya	Female	Deciphering Biosynthesis and utility of bioactive compounds in neglected African cabbage and Ethiopian mustard vegetables	Graduated. 3 journal publications	KIST, Korea
5	Dr. Humphrey Andalo Mabwi	Kenya	Male	Potential use of synthetic human gut microbiome communities in screening phytochemicals beneficial to intestinal flora	Graduated . 2 journal publications	KIST, Korea
6	Levi Omache	Kenya	Male	Antimicrobial Resistant Biofilm Forming Salmonella and its control in the Poultry Production Environments in Dar es Salaam, Tanzania	Re-admitted to SUA up to May 2024	KIST, Korea
7	Emmanuel Kifaro	Tanzania	Male	Development of Microparticles qPCR for the Detection of Selected RNA viruses from Non- Invasive Animal Specimens	Preparing for thesis defense 2 journal publications	KIST, Korea

No	Name	Nationality	Gender (F/M)	Research topic	Status	International Partner Institution
8	Rogia Saïdath Adéline Gomez	Benin	Female	Biosecurity in poultry farms and its effects on productivity and meat quality	At SUA	To be confirmed
9	Hissein Hassan Abdel- Razakh	Chad	Male	In vitro studies of the antimicrobial and antioxidant properties of selected Chadian medicinal plants	At KIST, Korea	Korea Institute of Science and Technology
10	Charlie Frank Arthur N'guessan Amoia	Côte d'Ivoire	Male	Use of the LaSota backbone for the development of a recombinant vaccine whose genotype matches to African countries	At VT-CALS, USA	Virginia Tech, USA
11	Jean-Yves Ekra	Côte d'Ivoire	Male	Genetic potential of local cattle - Genetic studies of trypanosomes, trypanotolerance and olfactory profile of cattle in tsetse infested environments of Côte d'Ivoire	Preparing for research placement	Worcester Polytechnic Institute (WPI), Boston, USA
12	Catherine Wangui Mbuthia	Kenya	Female	Investigation of anthropogenic effects and the role of little stint (Calidris minuta) on occurrence of multi-drug resistant Escherichia coli in Kenya	At SUA	ILRI, Kenya
13	Faith Njeri Njeru	Kenya	Female	Application of nanobody as a diagnostic tool and their antiviral properties against Maize lethal necrosis	At SUA 2 publications	University of Ghent, Belgium
14	Grace Wanjiku Gachara	Kenya	Female	Quantification Of Aflatoxin And Molecular Characterization Of Aspergillus Species: Case Study Of The Rift-Valley Region In Kenya	At UM6P in Morocco 1 publication	University Mohammed VI Polytechnic, Morocco
15	Ivy Sylvia Okello	Kenya	Female	Epidemiology, Drug sensitivity Pattern and Control practices of African Animal trypanosomes in Western Kenya	At VT-CALS, USA 2 publications	Virginia Tech College of Agriculture and Life Sciences (CALS)
16	Celestin Sirimu	Rwanda	Male	Exploiting natural antimicrobials for food bio preservation 1 publication focusing on microbial safety, quality and shelf life		GBST, SNU, Korea
17	Isidore Nsengimana	Rwanda	Male	Epidemiological investigation of Rift Valley Fever virus inter- epidemic circulation in Rwanda Preparing for research placement		Virginia Tech, USA
18	Julius Joseph Mwanandota	Tanzania	Male	Genomic Surveillance of important sheep and goat respiratory diseases for improved productivity through strategic diseases control in Tanzania	Preparing for research placement	ILRI, Kenya

Rsif PhD students at SUA - Cohort 3 - 1



No	Name	Nationality	Gender	Research topic	Status	International Partner Institution
19	Gwladys Gloria Amen Ahouanse	Benin	Female	Evaluation of the safety and quality of Bushmeat consumed in southern Benin	At SUA	Universidade Estadual de Mato Grosso do Sul (UEMS), Brazil (TBC)
20	Mahugnon Santoze Adido	Benin	Male	Genetic Characterization and Genome-Wide Association Analysis Of Economically Important Traits In Freshwater Prawn Populations In Benin	At SUA	Ben-Gurion University of the Negev, Israel
21	Kulimushi Emmanuel Bwanampongo	DRC	Male	Agromorphogenetic diversity of yams (Dioscorea sp) and associated plant viruses in eastern Democratic Republic of Congo		ILRI, Kenya
22	Tiruha Karssa	Ethiopia	Male	Molecular Mechanisms of Antimicrobial Resistance in Food borne pathogens	In first year of studies	University of Lisbon, Portugal
23	Damaris Mulwa	Kenya	Female	Intervention time series modelling of Rift Valley Fever in Kenya	At SUA	ILRI, Kenya
24	Alfred Ngwira	Malawi	Male	Spatial temporal distribution of cattle foot and mouth disease in Malawi: An Application of Zero Inflated Bayesian Hierarchical Models	At SUA	University of Pretoria, South Africa
25	Ibrahim Laminou Kombi	Niger	Male	Does the natural austerity of African countries south of the Sahara, coupled with the issues of climate variability and change, promote the achievement of food security objectives for these countries?	At SUA	University of Pretoria, South Africa (TBC)

Rsif PhD students at SUA – Cohort 3 - 2



No	Name	Nationality	Gender	Research topic	Status	International Partner Institution
26	Donatien Ntawuruhunga	Rwanda	Male	Implications of Climate-Smart Agroforestry on Households' Well-Being in Two Contrasting Agro- Ecological Zones of Bugesera and Rulindo Regions in Rwanda		ILRI, Kenya
27	Drocelle Nirere	Rwanda	Female	Evaluate the integrated effect of Nitrogen, phosphorus and vermicompost on soil properties and soybean yield and quality towards food security in Rwanda	1 journal publication	University of Ghent, Belgium (to be confirmed)
28	Jean Damascene Tuyizere	Rwanda	Male	Conservation Tillage for Soil Fertility Restoration in Two Agro Ecological Zones of Rwanda		Virginia Tech, USA
29	Vincent Habimana	Rwanda	Male	Evaluation of heat stress effects on milk yield traits and metabolites for dairy cattle reared in Tanga region, Tanzania	1 journal publication	ILRI, Kenya
30	Emmanuel Philip Lasuba Lita	South Sudan	Male	Seroprevalence of brucellosis among herdsmen, Isolation and Identification of Brucella Isolates from Cattle and goats in South Sudan		To be confirmed
31	Mercy Mmari	Tanzania	Female	Edible insects of Tanzania; Diversity, nutrients composition and contribution to livelihood among Tanzanian societies		KIST, Korea (to be confirmed)
32	Sambwe Fundikira	Tanzania	Female	Efficacy assessment of bio-control preventive actions in maize to reduce human mycotoxin exposure in Tanzania		To be confirmed

Rsif PhD students at SUA – Cohort 4: In first year of study

No	Name	Nationality	Gender	Research topic	Status	International Partner Institution
33	Jean Claude Ndayisaba	Burundi	Male	Tea commercialisation and food security among smallholder farmers of Mirwa region in Burundi	In first year of study	To be confirmed
34	Konan Ange-Sylvestre Goli	Cote d'Ivoire	Male	Epidemiology of Peste des Petits Ruminants (PPR) and ecology of the PPR virus in the Poro region (Northern Ivorian)	u	To be confirmed
35	Angelica Adiacao Jossefa	Mozambique	Female	Microbiological analysis in vegetables cultivated with tilapia contaminated by bacteria in aquaponic systems	u	To be confirmed
36	Carlos Tancredo Jose	Mozambique	Male	Cowpea agronomic biofortification with iron and zinc and value chain strengthening and food and nutrition security in Sub-Saharan Africa.	u	To be confirmed
37	Hercidio Jaime Tandane	Mozambique	Male	Impact of agribusiness on food security and livelihood generation: A case study in Singida, Tanzania	и	To be confirmed
38	Ibraimo Teleha Chabite	Mozambique	Male	Microbiological and physicochemical evaluation on food safety in post-harvest management in northern Mozambique	и	To be confirmed
39	Leonildo dos Anjo Viagem	Mozambique	Male	Study of the Microbiome and Evolution of Genes Associated with Food Preferences of Oreochromis mossambicus (Peters, 1852)	u	To be confirmed
40	Noemia Andre Mugabe	Mozambique	Female	Quality and Safety Assurance in the Informal Chicken Processing and Marketing Chain in the Southern Region of Mozambique	u	To be confirmed
41	Roberto Luís Nhamussua	Mozambique	Male	Use of citrus fruit peel for Insecticide Production for pest control in Brassica oleracea var. acephala	u	To be confirmed
42	Sande Tamara Jose	Mozambique	Female	Using APSIM model to access the Effect of combined application of nitrogen and potassium doses on wheat (Triticum aestivum L.) nutrition, yield and grain quality	и	To be confirmed
43	Mohammed Usman Sajo	Nigeria	Male	Comparative study of the genomic variability of Newcastle disease virus strains from Nigeria and development of an effective genotype-matched live attenuated vaccine	u	To be confirmed

Strengthening research networks for Sokoine University of Agriculture



International Partner Institutions sign agreements for exchanging staff and students with SUA

- 1. Korea Institute of Science and Technology (KIST), Korea
- 2. Institutes of Green-Bio Science & Technology Seoul National Science and Technology University (GBST-SNU), Korea
- 3. International Livestock Research Institute (ILRI), Kenya
- 4. Virginia Tech, College of Agriculture and Life Sciences (CALS), USA
- 5. Worcester Polytechnic Institute (WPI), Boston USA
- 6. Ben-Gurion University of the Negev, Israel
- 7. University of Pretoria, South Africa
- 8. International Cooperation of Brazilian Universities (GCUB)
- 9. Ghent University, Belgium













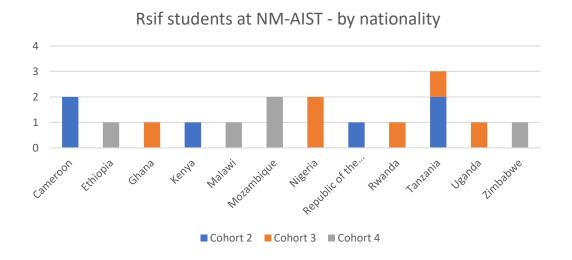


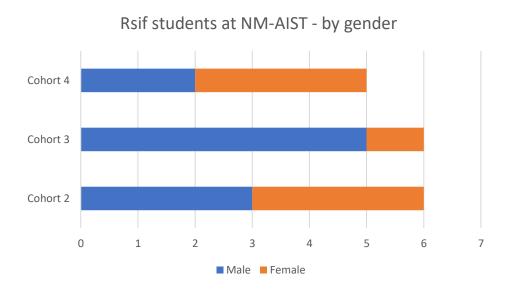




Nelson Mandela African Institution of Science and Technology – and Rsif African host university since 2019

- Water Infrastructure & Sustainable Energy Centre for the Futures (WISE FUTURES)
- PhD program in Life Sciences & Materials Science and Engineering (MaSE)
- Hosting 17 Rsif PhD scholars (41% women)
- 12 African nationalities represented
- 21 journal publications to date









<u>Video</u> - Dr. Mwemezi Rwiza, Rsif Coordinator at NM-AIST on benefits of Rsif to the university: Video link: https://www.youtube.com/watch?v=Bb4dPKO cWM

Rsif PhD students at NM-AIST – Cohort 2

	Name	Nationality	Gender	Research Topic	Status	International Partner Institution
1	<u>Linda Bih Numfor</u>	Cameroon	Female	Heavy Metal Removal by Moringa Oleifera Activated Carbon for water treatment	At GBST-SNU, Korea 3 publications	GBST-SNU, Korea
2	Mohamed Raoul Ibrahim	Cameroon	Male	Synthesis and characterization of nanoparticles for solar heterogeneous photocatalysis applications	At the University of Ghent	University of Ghent, Belgium
3	Bethwel Kipchirchir Tarus	Kenya	Male	Brackish Water Desalination by Capacitive Deionization using Beaded Electrospun Carbon Nanofibers	At KIST, Korea 1 journal publication	Korea Institute of Science and Technology (KIST)
4	Alde Belgard Tchicaya	Republic of the Congo	Male	Effect of the earth-to-air heat exchanger in Congolese buildings	1 journal publication	Nestle, South Africa
5	Ruth Lorivi Moirana	Tanzania	Female	Investigation of the efficiency of biochar on enhancing methane production and denitrification process in wastewater treatment	Completed research placement 4 journal publications	University of Greenwich, Natural Resources Institute (NRI), United Kingdom
6	Tusekile Alfredy	Tanzania	Female	Removal of heavy metals from water by capacitive deionization electrode materials derived from chicken feathers	3 journal publications	University Mohammed VI Polytechnic (UM6P), Morocco

Brief video student profiles available on Rsif YouTube Channel for the NM-AIST Cohort 2 students

Rsif PhD students hosted at NM-AIST - Cohort 3

No	Name	Nationality	Gender	Research topic	Status/Matching	International Partner Institution
7	<u>Jonas Bayuo</u>	Ghana	Male	Adsorption-desorption of heavy metals and regeneration of the exhausted adsorbents	5 journal publications	Korea Institute of Science and Technology (KIST) (TBC)
8	Ishaq Kariim	Nigeria	Male	Performance investigation of nano-hybrid catalysts in microwave-induced co-pyrolysis of biomass/polymer for biojet fuel production	1 publication	Korea Institute of Energy Research (KIER)
9	Joshua Oyetade	Nigeria	Male	Development of nano-size doped polyaniline composites for catalytic degradation of selected industrial azo dyes	3 publications	KIST, Korea (TBC)
10	Colette Abimana	Rwanda	Female	Electrochemical properties investigation of biomass-derived composites-based supercapacitors storing solar photovoltaic power		IMT Mines Albi France -TBC
11	<u>Hashimu Hamisi</u>	Tanzania	Male	High strength geopolymer concrete (HSGC) cured at ambient temperature with improved workability; A blend of nanosilica, RHA and Pugu Kaolin in Tanzania		To be confirmed
12	Faisal Kiberu	Uganda	Male	Experimental performance of burnt clay hollow block slab under seismic action in Uganda		KIST, Korea (to be confirmed)

Brief video student profiles available on Rsif YouTube Channel for several of the cohort 3 NM-AIST students

Cohort 4 Rsif PhD students at NM-AIST: In first year of study

No	Name	Nationality	Gender	Research topic	Status	International Partner Institution
13	Tsion Amsalu	Ethiopia	Female	Investigation of bentonite and kaolin exist in Ethiopia as partially replacement of Portland pozzolana cement on morphological characteristics of concrete	In first year of study	To be confirmed
14	Bhahat Lawlley Zimba	Malawi	Male	Regeneration of femur bone tissue in rats from pluripotent stem cells seeded on collagen-based biomaterial	In first year of study	To be confirmed
15	Tafadzwa Cecilia Nkhoma	Zimbabwe	Female	Synthesis of alkali activated filters from industrial by-products (red mud) for water and wastewater treatment	In first year of study	To be confirmed
16	Inacia Augusto Macapa	Mozambique	Female	Environmental impact of coal tailings stacking in the Moatize coal basin	In first year of study	To be confirmed
17	Nordino Moises Mungoi	Mozambique	Male	Evaluating the hydrokinetic energy systems as an alternative for generating power in isolated communities of Mozambique: An economic and technological	In first year of study	To be confirmed

Strengthening research networks for NM-AIST



International Partner Institutions (IPIs) signed agreements and exchanging staff and students with NM-AIST

- 1. Hanyang University, Korea
- 2. Korea Institute of Science and Technology (KIST), Korea
- University of Greenwich Natural Resources Institute (NRI), United Kingdom
- 4. Institute of Green Bio Science and Technology (GBST) in Seoul National University (SNU), Korea
- 5. University of Ghent, Belgium
- 6. IMT Mines Albi, France
- 7. Nestle, South Africa
- 8. University Mohammed VI Polytechnic Institute, Morocco



















Strengthening Research and Innovation Capacity at the Sokoine University of Agriculture







- Enhanced innovation ecosystem within the university (1
 Institutional Innovation Capacity Building (ICBP) Grant
 - Innovative Biosystems for Self-sufficiency in Molecular Biology Reagents in Africa
- High quality research on key developmental issues
 (1 Research Grant awarded to faculty and 1 JIRA
 Grant to graduate affiliated with SUA)
 - Practical development of microparticles-based assay for direct detection of viral RNA from non-invasive and complex animal matrices.
 - Leveraging pathogen genomics for an improved domestic pig health and production by mapping African swine fever virus transmission dynamics at the wildlife-livestock interface in Tanzania

Strengthening Research and Innovation Capacity at the NM-AIST, Arusha







- High quality research on key developmental issues
 (3 Research Grants awarded to faculty)
- Solar-assisted heat pump dryer with energy storage for drying biomaterials
- Fluoride removal from drinking water using capacitive deionization
- Exploiting the potential of solar-powered cooler for vaccine and perishable foods storage in remote areas of Sub-Saharan Africa

Video

Dr. Thomas Kivevele, Senior Lecturer NM-AIST on Rsif funded project:

Solar assisted heat pump dryer integrated with solar energy systems to reduce post harvest losses

Video link:

https://www.youtube.com/watc
h?v=qhl6fxg6XUE



Multiple benefits to Tanzania's research and innovation ecosystem



- 1. Rsif graduates, with strong research networks, able to "win" additional research awards.
- 2. Reduced "inbreeding" at Tanzanian universities
- 3. NM-AIST and SUA received video conference equipment, library resources and benefit from various trainings e.g.
 - Arranged exchange visits for NM-AIST and SUA staff to Morocco and Japan
- 4. New institutional research and training networks
- 5. Graduates equipped with advanced technologies, cross cutting and technical skills and relevant international, regional and national networks
- 6. 9 journal publications from Tanzanian Rsif students to date in high impact journals
- 7. 6 RSIF research and innovation projects under implementation.
- 8. Research outputs and knowledge generated in line with national priorities: e.g. infectious diseases, solar energy, water, etc.

Emerging impact – set to "snowball"...



Emmanuel Kifaro, Tanzania, Rsif Cohort 1

Research area: Development of Microparticles qPCR for the Detection of Selected RNA viruses from Non-Invasive Animal Specimens

Sandwich placement at Korea Institute of Science and Technology (KIST), Korea.

2 journal publications in period

Finalizing on writing thesis in preparation for thesis defense at Sokoine University of Agriculture, Tanzania



VIDEO

Meet Ruth Lorivi Moirana "Fluorid Removal in Water"

Faculty and Rsif PhD student at NM-AIST. Research placement at NRI, University of Greenwich, UK

Video link:

https://www.youtube.com/watch
?v=VODM5adJvx0





VIDEO – Meet Hashimu Hamisi. "Green Concrete", Faculty at MUST, PhD student at NM-AIST

Video link: https://www.youtube.com/watch?v=woKORbYRzbY



<u>VIDEO</u> - Meet Tusekile Alfredy – Faculty and PhD student at NM-AIST with placement at UM6P, Morocco Video link: https://www.youtube.com/watch?v=PCqA0leRak8

Thank You

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