



UNITED REPUBLIC OF TANZANIA

MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY



SOKOINE UNIVERSITY OF AGRICULTURE  
DIRECTORATE OF POSTGRADUATE STUDIES,  
RESEARCH, TECHNOLOGY TRANSFER AND CONSULTANCY

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**NOTICE OF RESEARCH PROJECT AWARD UNDER THE  
SUA RESEARCH AND INNOVATION SUPPORT (SUARIS) 2<sup>ND</sup> PHASE  
COMPETITIVE RESEARCH AND INNOVATION GRANTS FOR YEAR 2021/2022 FOR  
SUA STAFF**

**LIST OF SUCCESSFUL PROJECTS**

<b>Commissioned Grants</b>				
SN	Research Topic	Principal Investigator (PI)	College/ School/ Institute	Recommended Amount (TZS)
1	Development of a novel commercial bivalent vaccine candidate against <i>Mycoplasma capricolum</i> subsp. <i>capripneumoniae</i> and <i>Pasteurella multocida</i> for control of Contagious Caprine Pleuropneumonia and <i>Pasteurella multocida</i> pneumonia in goat	Alexanda Mzula	CVMBS	80,000,000

<b>Standard Grants (Commissioned Grants Application Considered for Standard Grants)</b>				
SN	Research Topic	Principal Investigator (PI)	College/ School/ Institute	Recommended Amount (TZS)
1	Towards a Nationwide Automatic Irrigation Scheduling System using Geospatial Artificial Intelligence (NAISS-GAI)	Kadeghe Fue	SoET	30,000,000
2	Application of Phage Technology in Poultry industry: An alternative to antibiotics for control of antimicrobial resistance and enhancing productivity	Augustino Alfred Chengula	CVMBS	30,000,000
3	Enhancing Exploitation Of Sisal Wastes For Food Fortification	Nuria Majaliwa	CoA	30,000,000
4	Intelligence-based technology for reducing crop raiding by elephants and its effectiveness	Jamal Firmat Banzi	CFWT	30,000,000

	in preventing human elephant conflict in Tanzania			
5	Towards Breeding for Fall Armyworm Resistant Maize Varieties: A Deep Learning Computer Model for Shortening the Selection Cycle.	Rehema Mwawado	MPCC	<b>30,000,000</b>
6	Maximizing the use and performance of bednets using community owned and driven practices	Amina Ramadhani Issae	IPM	<b>30,000,000</b>
7	Enhancing commercialization of bamboo farming for poverty alleviation and conservation in the Southern Highland of Tanzania	Paulo J. Lyimo	CFWT	<b>30,000,000</b>

<b>Standard Grants</b>				
<b>SN</b>	<b>Research Topic</b>	<b>Principal Investigator (PI)</b>	<b>College/ School/ Institute</b>	<b>Recommended Amount (TZS)</b>
1	Enhancing Resilience to Climate Change in Viticulture: Agroclimatic Decision Tool for Expansion of Suitable Growing Areas	Yassin Mbululo	CoNAS	29,500,000
2	Ethnolinguistics (study of the interrelation between a language and the cultural behaviour of those who speak it) and ethnobotany (study of a region's plants and their practical uses through the traditional knowledge of a local culture and people) documentation: Towards preserving Hehe indigenous knowledge of medicinal plants in a pictorial dictionary	Onesmo S. Nyinondi	CSSH	29,500,000
3	Intensification of tilapia culture using biofloc technology	Mariam Ahsadi Bakari	CoA	29,500,000
4	An end-to-end digital aquaculture knowledge management system for optimal fish production in Tanzania	Ronald Benard	CoNAS	29,500,000
5	Rodent management using Barn owls as biological control in Iringa region	Lilian Fanuel Shechambo	CoA	29,500,000
6	Plant pests prediction and Emerging Disease detection using Image processing, webGIS and machine learning Techniques (PREDICT)	Michael Pendo John Mahenge	CoNAS	29,500,000
7	Estimating And Mapping Timber Resources In The Small Scale Plantation Forests Of Southern Highlands Using Multispectral Remote Sensing Data	Bernadol Manyanda	CFWT	29,500,000
8	Analysis of Electronic Waste Management Practices in Tanzania: The Case of Selected	Respikius Martin	CoA	29,500,000

	Cities			
9	Reducing Farmers-Pastoralist's conflict: testing a leopard and Lion repellent scent to keep livestock away from crop fields	Majid, Khadija Said	CVMBBS	28,500,000
10	Space-Time Analysis to Uncover the Nature and Complexities of Farmer-Herder Conflicts in Kilosa and Mvomero Districts, Tanzania: A Geodatabase Development	Tumaini Allan Tuni	CSSH	29,500,000
11	Governance of Land Use Planning and Land Development in Tanzania: Implications for Conflict Management	Pius John Nyamhanga	CSSH	29,500,000
12	Determining a Rainfall Threshold for Forecasting Rainfall-induced Landslides in Uluguru Mountains	Nkuba N. Mbeho	CoNAS	25,900,000
13	Assessment of environmental flow for sustainable planning of water resources in in the Rufiji River	Kimambo, Offoro N.	CoNAS	29,500,000
14	Promoting multi-nutrient feed blocks technology for improving smallholder dairy goat productivity in Mgeta Division, Morogoro	David D. Maleko	CoA	29,500,000
15	Innovative strategies for enhancing Conservation of Endemic Fishes in the Kilombero floodplain, Tanzania (CoEF- project)	Prisila Andrea Mkenda	CoNAS	29,500,000
16	Towards Developing a Model to Monitor Rapidly Expanding Cities and its Impact on Urban Agricultural Land using Time Series Remote Sensing Images: A case of five Tanzania Growing Cities	Neema Simon Sumari	SM-COSE	29,500,000
17	Exploring the influence of water triple point thermodynamics on diminishing glaciers of Mount Kilimanjaro	Sylvanus B. Ruvubu	CoNAS	29,500,000
18	An Integrated Machine Learning Internet of Things (IoT) –Adaptive Smart Cloud Farming System for Small-Scale Farmers in Tanzania	Alcardo Alex Barakabitze	CoNAS	29,500,000
19	Assessment of Influence of Changing Landscape on Threats of Zoonoses in Katavi - Rukwa Ecosystem using One Health Approach	Eva Abel Moshiro	CFWT	29,500,000
20	Promoting bamboo charcoal as alternative energy source in Morogoro, Tanzania	Scolastica J. Ntalikwa	CFWT	29,500,000
21	Development of information systems for Mobile Sawmilling Industries in the Southern Highlands of Tanzania.	Lynder E. Gesase	CFWT	29,500,000

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<b>SN</b>	<b>Research Topic</b>	<b>Principal Investigator (PI)</b>	<b>College/ School/ Institute</b>	<b>Recommended Amount (TZS)</b>
1	Potentials of Sodium chloride and Bicarbonate of soda in reduction of pesticide residues on tomatoes in Morogoro, Tanzania.	Fundikira Sambwe	CoA	20,000,000
2	Bioactivity of Ocimum suave (WILD) extract against African Fall Army worms (Spodoptera frugiperda) in Maize	Martin John, Martin	IPM	20,000,000
3	Towards Increasing Sunflower Production in Tanzania: A Case Study of Singida and Simiyu Regions	Hekima Boniface Mliga	COA	20,000,000
4	Biochar technology: An affordable strategy to smallholder farmers in improving food security, income generation, and checking climate-migration in the highlands of Tanzania	Eliakira Kisetu Nassary	COA	20,000,000
5	The impact of levy charged of raw hides and skins on leather industries development in Tanzania	Hilder C. Nyangi	SAEBS	20,000,000

Additional information on the next steps will be communicated to the Project Investigator (PI).

The SUA Management acknowledges all who showed interest to apply. Feedback to all applicants will be shared with you all in the coming few days.

*Issued by:*

**The Directorate of Postgraduate Studies, Research, Technology Transfer and Consultancy (DPRTC)**

**Date: 4<sup>th</sup> February 2022**