



THE UNITED REPUBLIC OF TANZANIA
MINISTRY OF AGRICULTURE
TANZANIA AGRICULTURAL RESEARCH INSTITUTE



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2st December, 2025

TO ALL TARI STAFF

Tanzania Agricultural Research Institute (TARI) is one of the implementing partners of the World Bank funded Programme called Tanzania Food Systems Resilience Program (TFSRP). The overall objective of TFSRP project is to support food systems resilience by strengthening agricultural service delivery, the adoption of climate resilient technologies, and fiscal performance in the agricultural sector. The TFSRP result areas (RA) are: RA1 - improving service delivery in research, extension, and seed; RA2 – developing resilient rural infrastructure; and RA3 - strengthening fiscal performance to enable delivery on priority investment areas. One of the deliverables of the project is to build capacity of highly talented TARI employees at National Universities.

The institutes recently advertised 85 scholarships for postgraduate studies for applicants interested in undertaking studies in domestic higher learning institutions. Therefore, the Management is pleased to announce the selected candidates for TFSRP Postgraduate scholarships.

Furthermore, some scholarships are readvertised for application. Candidates who were not successful in the previous application are allowed to apply. **Please read carefully instructions for application**

A: SELECTED TARI STAFF FOR POSGRADUATE STUDIES UNDER TFSRP SCHOLARSHIPS

SN	AREA/THEME	FULL NAME	APPLIED MSC/PHD	PROPOSED TOPIC	PROPOSED MSC/PHD	RECOMMENDATIONS
1	Applied Biostatistics/ biological statistics	1. Mr. Adam Songoro	Master of Science in Agriculture Statistics	Integrated Digital Platform for Monitoring and Reporting of Research and Seed Multiplication Activities.	Master of Science in Agriculture Statistics	
2	Pest Management and Entomopathogenic agents	2. Ms. Sarah Gerald Nzaro	Master of Science in Crop Science and Technology	Evaluation of entomopathogenic nematodes (EPNs) for sustainable management of scarabs affecting beans and tomato production in Southern Highlands of Tanzania	Master of Science in Crop Science and Technology	Subject to Discussions to change degree program to Crop Science (Plant Protection)
		3. Mr. Emmanuel David Katamba	Master of Science in Sustainable Agriculture (Plant Molecular Breeding)	Antagonism and effects of <i>Bacillus subtilis</i> on <i>Fusarium oxysporum</i> f. sp. <i>Lycopersici</i> on disease Severity, and Growth of Tomato (<i>Solanum lycopersicum</i>).	Master of Science in Sustainable Agriculture (Plant Molecular Breeding)	Subject to Discussions to change degree program to Crop Science (Plant Protection)
		4. Mr. Mwichande Ahmed Mwichande	Master of Crop Protection	Investigate Entomopathogenic Fungi for the Control of False Codling Moth (<i>Thaumatotibia leucotreta</i>) on Tanzanian Avocado Orchards.	Master of Crop Protection	
		5. Mr. Thomas Noel Ponera	Master of Crop Protection	Characterization and management of scarabid beetles using entomopathogenic fungi towards improved Sugarcane production in Tanzania	Master of Crop Protection	
		6. Mr. Faida Daud Kinoja	Master of Science in Crop Science and Technology	Efficacy of selected microbial based control measures against rhinoceros beetles attacking oil palm in Tanzania	Master of Science in Crop Science and Technology	
		7. Ms. Beatrice Engles Kashando	PhD, Crop Science	Evaluating the effectiveness of locally available entomopathogens in managing white grub affecting sugarcane in Tanzania	PhD, Crop Science	

3.	Molecular Biology and Pathology	8. Ms. Afua Juma Omary	Master of Science in Integrated food Science	Advancing Genetic Characterization of Fungal Pathogens Affecting Oil Palm (<i>Elaeis guineensis</i>) in Unexplored Production Zones of Tanzania	Master of Science in Integrated food Science	Subject to Discussions change degree program to Molecular Biology and Biotechnology (UDSM)
		9. Mr. Hosiana Winston Ulula	Master of Science in Sustainable Agriculture (<i>Molecular Plant Pathology</i>)	Integration of Molecular Pathology Techniques in the Control of Smut Disease in Sorghum (<i>Sorghum bicolor</i> L.) in semi-arid areas of Tanzania	Master of Science in Sustainable Agriculture (<i>Molecular Plant Pathology</i>)	Subject to Discussions to change degree program to Crop Science (Plant Protection)
		10.Mr. George Mende Kairo	Master of Crop Protection	Assessing the Effectiveness of Bee Venom on Selected Fungal Diseases on Common Beans in Southern Highlands of Tanzania.	Master of Crop Protection	
		11.Mr. Masam Malimu Sudi	Master of Science in Sustainable Agriculture (<i>Molecular Plant Pathology</i>)	Molecular Characterization and the Survival Mechanism of Bacterial Leaf Blight pathogen (<i>Xanthomonas oryzae</i> pv. <i>Oryzae</i>) in Rice Residues and Soil in eastern zone (Morogoro and Pwani regions) Tanzania	Master of Science in Sustainable Agriculture (<i>Molecular Plant Pathology</i>)	
		12.Ms. Mwinshaha Athuman Mwinshaha	Master of Science in Biotechnology	Characterization, Screening and Evaluation of Plant Growth Promoting Activities of Endophytes of Tea (<i>Camellia Sinensis</i>)	Master of Science in Biotechnology	
		13.Mr. Chona Msafiri Mahushi	Master of Crop Protection	Characterization of sugarcane smut (<i>Sporisorium citamineum</i>) in the major sugarcane growing areas of Tanzania	Master of Crop Protection	
		14.Ms. Rahma Chiboba Mkangwa	Master of Science in Microbiology	Management of Major Sunflower Virus Disease using Biotechnology in	Master of Science in Microbiology	Subject to Discussions - change degree program to Molecular Biology and

		15.Mr. Shiwa Luhende Joseph	Master of Science in Sustainable Agriculture (<i>Molecular Plant Pathology</i>)	Tanzania Genetic Diversity of the Causal Agent of Banana Xanthomonas Wilt in Tanzania	Master of Science in Sustainable Agriculture (<i>Molecular Plant Pathology</i>)	Biotechnology (UDSM)
4.	Application of AI and ICT in Agriculture	16.Mr. Jiday Lucas Muya	MSc In Soil Science and Land Management	Enhancing round potato productivity through developing an Integrated AI and ICT framework for predictive soil health analysis and targeted intervention in the Southern Highlands of Tanzania	MSc In Soil Science and Land Management	
		17.Mr. Khalifan Shabani Machemba	MSc In Soil Science and Land Management	Integration of GNSS and artificial intelligence for predicting soil nutrient depletion resulted from climate change in Moshi District, Kilimanjaro Region, Tanzania	MSc In Soil Science and Land Management	
		18.Mayala Masanja Thobias	Master of Science Crop Protection	Application Of Convolutional Neural Networks for Automated Detection of Diseases and Nutrient Deficiencies in Tanzanian Tea Crops	Master of Science Crop Protection	
		19.Mr. Peter Daud Masatu	Master of Science in Geographical Information Systems	AI-GIS Integration for crop monitoring and improved Rice Yield: A Case Study of Dakawa, Morogoro	Master of Science in Geographical Information Systems	
		20.Mr. Petro Christopher Maziku	PhD in Hydrology and Water Resources Engineering (<i>Water Resources Engineering and Management</i>)	Development of an edge AI-powered irrigation decision engine for precision water management under variable climate conditions	PhD in Hydrology and Water Resources Engineering (<i>Water Resources Engineering and Management</i>)	

5.	Crop Biogeography	21.Ms. Zawadi Wile Kilangara	Master of Science in Geographical Information Systems	Application of Remote Sensing and GIS in Reclassification of Agro-Ecological Zones in Tanzania	Master of Science in Geographical Information Systems (GIS)	
		22.Floramanka Patrick Ndakidemi	PhD in Sustainable Agriculture (<i>Molecular Plant Pathology</i>)	Ethno botanical, Molecular, and Bioactive Evaluation of <i>Ocimum</i> Species in Northern Tanzania for Sustainable Agricultural Applications	PhD in Sustainable Agriculture (<i>Molecular Plant Pathology</i>)	Subject to Discussions – change degree program to Biodiversity and ecosystems Management
6.	Management of invasive weeds in Tanzania	23.Ms. Bakina Obadia Msalilwa	Master of Science in Sustainable Agriculture (<i>Agricultural System Management</i>)	Integrated management strategies for Parthenium hysterophorus to enhance crop productivity and rangeland health in Semi-Arid zones of Tanzania	Master of Science in Sustainable Agriculture (<i>Agricultural System Management</i>)	
		24.Mr. Said Hassan Lujenje	MSc in Crop Science	Evaluation of the Effectiveness of Various Management Practices for Kongwa Weed (<i>Astripomoea hyoscyamoides</i>) in Cropland and Rangeland Ecosystems of Central Tanzania	MSc in Crop Science	
7.	Studies in plant nutrition and Crop Physiology	25.Mr. Emmanuel Eliya Senge	Masters of science in Sustainable Agriculture	Enhancing Soil Fertility and Plant Nutrition for Sustainable Agricultural Productivity	Masters of science in Sustainable Agriculture	Subject to change – Degree program Master of Science in Agronomy (crop physiology)
		26.Mr. John Sindano Kitati	MSc In Soil Science and Land Management.	Nutrient Uptake and Physiological Responses of Maize (<i>Zea mays</i> L.) Under different Soil Types and Environmental Conditions in Tanzania	MSc In Soil Science and Land Management.	
8.	Molecular and conventional plant breeding	27.Mr. Augustino Dismas Mrema	Master of Science in Sustainable Agriculture (<i>Plant Molecular Breeding</i>)	Multi-trait improvement in potato (<i>Solanum tuberosum</i> L.) for enhanced productivity, disease tolerance, and	Master of Science in Sustainable Agriculture (<i>Plant Molecular Breeding</i>)	Subject to change – Degree program Master of Science in Crop Science Plant Breeding (SUA)

				market competitiveness		
		28.Mr. Musa Alphonse Mwijarubi	Master of Science in Sustainable Agriculture (<i>Plant Molecular Breeding</i>)	Developing climate-resilient varieties through molecular breeding for Tea production in Tanzania	Master of Science in Sustainable Agriculture (<i>Plant Molecular Breeding</i>)	
		29.Ms. Rehema Samuel Elias	Master of Science in Seed Technology and Business	Integrating Conventional and Basic Molecular Approaches for Identifying Coconut (<i>Cocos nucifera</i> L.) Varieties Resistant to Lethal Yellowing Disease in Coastal Tanzania	Master of Science in Seed Technology and Business	
		30.Mr. Hamza Nassoro Msangi	PhD in Sustainable Agriculture (<i>Plant Molecular Breeding</i>)	Genetic improvement for resistance to coconut lethal disease (CYLD) on Tanzanian coconut genotypes	PhD in Sustainable Agriculture (<i>Plant Molecular Breeding</i>)	Subject to Discussions
		31.Ms. Beata Paul Khafa	PhD in Sustainable Agriculture (Plant Molecular Breeding)	Study of Genetic and Phenotypic Diversity of Sunflower (<i>Helianthus annus</i> L.) Genotypes for Yield Improvement in Tanzania	PhD in Sustainable Agriculture (Plant Molecular Breeding)	
9.	Application of mutational atomic breeding for development of crop varieties	32.Mr. Kinguye Masamaki Magomere	PhD in Crop Science and Technology	Integrating Mutation Breeding and Genomics Tools to Improve Drought Tolerance in Rice (<i>Oryza Sativa</i> L.) In Tanzania	PhD in Crop Science and Technology	
10.	Application of nanotechnology for precision agriculture	33.Mr. Theobald Stephano Chagga	PhD in Sustainable Agriculture (<i>Molecular Plant Pathology</i>)	Nanotechnology-Based Approaches for Precision Detection and Sustainable	PhD in Sustainable Agriculture (<i>Molecular Plant Pathology</i>)	

				Management of Plant Diseases in Tanzania		
11.	Plant biodiversity studies for domestication of wild plants	34.Mr. Alhaji Abed Said	Master of Science in Applied Botany	Mapping and Assessment of Threats to Priority Wild Edible Vegetable Species in Tanzania:	Master of Science in Applied Botany	
		35.Ms. Thereza Fabias Deus	Master of Science in Sustainable Agriculture	Assessing the Genetic Diversity and Conservation status of <i>Sclerocarya birrea</i> (Marula) population in Tanzania for Sustainable Use and Domestication	Master of Science in Sustainable Agriculture	Subject to Discussions
		36.Ms. Magreth Daudi Lupembe	PhD in Crop Science and Technology	Conservation of edible Wild Fruit Plants with Nutritional and Medicinal Properties in Tanzania: Integrating the use of Starch-Based Nanocomposite to Enhance Seed Longevity	PhD in Crop Science and Technology	
13.	Socio-economics-state of adoption of agricultural technologies, impact and impediments	37.Mr. Issaya Godwin Marijan	PhD in Agricultural Economics	Perception and impacts assessment on adoption of improved agricultural technologies among smallholder potato farmers in Tanzania	PhD in Agricultural Economics	
		38.Ms. Stella Massawe Andrea	PhD in Agricultural Education and Extension	State Of Adoption, Impact and Impediments to The Uptake of Agricultural Technologies in Tanzania	PhD in Agricultural Education and Extension	
14.	Management of pesticides and other agricultural	39.Ms. Elice Deogratius Makungu	Master of Science in Sustainable Agriculture	Characterization of Pesticide Residues in Soils, Water, and Tomatoes from Major Vegetable-	Master of Science in Sustainable Agriculture	

	chemicals		(Agriculture system mgt)	Growing Areas in Tanzania.	(Agriculture system mgt)	
		40.Mr. Joseph Adonia Leonard	PhD in Sustainable Agriculture (Plant Molecular breeding)	Management of Pesticides (<i>Chlorpyrifos, Endosulfan Metabolites, Pyrethroids</i> and <i>Mancozeb</i>) Residues: A Case Study of Tomato Production in Tanzania	PhD in Sustainable Agriculture (Plant Molecular breeding)	Subject to Discussions – change degree program and topic
15.	Development and dissemination of climate smart agriculture	41.Mr. Venance Honest Mrema	Master of Science in Sustainable Agriculture (Agricultural System Management)	Economic Viability of Climate-Smart Agriculture Practices: A Case of Smallholder Legume Cultivation in selected Districts in Northern Tanzania	Master of Science in Sustainable Agriculture (Agricultural System Management)	
		42.Mr. Kelvin Atuganile Mwakasege	MSc In Soil Science and Land Management.	Impact of Sunn Hemp and Integrated Approaches on Soil Properties and Sunflower Production in Semi-Arid Dodoma, Tanzania	MSc In Soil Science and Land Management.	
		43.Eva athias Otaru	Master of Science in Sustainable Agriculture (Agricultural System Management)	Evaluation of Climate-Smart Agriculture Technologies for Water Use Efficiency and Cost-Effectiveness in Semi-Arid Tanzania	Master of Science in Sustainable Agriculture (Agricultural System Management)	
		44.Ms. Leila Mohamedy Lwiza	PhD in Natural Resources Assessment and Management	Evaluating the Effectiveness and Economic Viability of Climate-Smart Agriculture (CSA) Practices in Semi-Arid Tanzania for Sustainable Land and Water Resource	PhD in Natural Resources Assessment and Management (Natural Resource Management in	

				Management	Agriculture,)	
16.	Development of biopesticides/botanicals for management of pests	45.Ms. Judith Robert Setebe	Master of Science in Integrated Food Security	Assessing the efficacy of <i>Azadirachta indica</i> , <i>Solanum incanum</i> , and <i>Tephrosia vogelii</i> in controlling aphids affecting <i>Solanum lycopersicum</i> cultivated by small-scale farmers in Mvomero district, Tanzania	Master of Science in Integrated Food Security Master of Science in food Science and Technology	Subject to Discussions – change degree program to Crop Science and Technology
		46.Ms. Rebecca Ambokile Mwakapala	Master of Science in Crop Science and Technology	Botanical Control of the White Rice Stem Borer (<i>Maliarpha separatella</i>) in Tanzania: Evaluating the efficacy and economic viability of indigenous plant-based formulations	Master of Science in Crop Science and Technology	
		47. Mr. Festo Frank Masisila	PhD in Crop Science and Technology	Development of Climate Resilient Pests and Diseases Management Strategies for Improving Livelihood Standards of Cashew Growers in Tanzania	PhD in Crop Science and Technology	
17.	Agricultural and bioprocessing engineering and technologies	48. Mr. Joseph Nakomolwa Joseph	Master of Integrated Water Resource Management	Development and Optimization of a Smart Irrigation System for Enhancing Water Use Efficiency under Climate Variability in Tanzania.	Master of Integrated Water Resource Management	
		49.Ms. Elesia Ahobwile Mkumbwa	Master of Science in Hydrology and Water Resources Engineering (Water Resources Engineering)	Sustainable Water Resources Management For Climate Resilient Agriculture At Mbarali, Tanzania	Master of Science in Hydrology and Water Resources Engineering (Water Resources Engineering)	
19.	Deliberate funding for on-going studies previously under	50.Ms. Fatma Hussein Kiruwa	PhD in Sustainable Agriculture (<i>Molecular</i>	Genetic Diversity, Host Range, and Integrated Management of Banana	PhD in Sustainable Agriculture (<i>Molecular</i>	

	USAID		Plant Pathology)	Bunchy Top Virus (BBTV) in Tanzania	Plant Pathology	
20.	Dynamics of gender in agricultural research and development	51.Mr. Deogratias Robert Shirima	MSc. Agricultural Extension	Mainstreaming Gender in Agricultural Research and Development	MSc. Agricultural Extension	
21.	Science Communication	52.Mr. Kalwinze Joseph Kiyenze	MSc. Agricultural Extension	Enhancing Agricultural Innovation Through Mobile Applications: A Digital Pathway for Technology Storage, Access, and Utilization at Tanzania Agricultural Research Institute (TARI)	MSc. Agricultural Extension	
22.	Information, knowledge Mgt. and communication	53.Mr. Julius Boniphace Butindi	Master in Information and Knowledge Management	Leveraging Information and Knowledge Management to Enhance Agricultural Research and Extension Services in Tanzania	Master in Information and Knowledge Management	
23.	Data Management	54.Mr. Rukundo Joseph Bwire	Masters Of Science in Agricultural Statistics	Designing a Centralized Data Management System for agricultural research datasets	Masters Of Science in Agricultural Statistics	
		55.Mr. Hassan Ally Kasimu	Masters Of Science in Agricultural Statistics	Influence of access to climate information on farmers adoption of climate smart agricultural practices. A case of maize smallholder farmers in Mufindi district – Iringa region, Tanzania	Masters Of Science in Agricultural Statistics	
24.	Other cadres	56.Mr. Ezra Nicas Kamanija	Master of Information and Communication Systems and Engineering (Information Technology Systems Development	Integrating Artificial Intelligence and Internet of Things for Smart Soil Health Monitoring to Enhance Maize Production: A Cost-Effective Approach for maize	Master of Information and Communication Systems and Engineering (Information Technology Systems	

			<i>and Management)</i>	production in Tanzania	<i>Development and Management) OR Master's Degree in Information Technology</i>	
25.		57.Mr. Frank Fulgence Chaki	Master degree in Human resource Mgt	The impact of technology on organizational culture, with a focus on digital transformation and artificial intelligence in decision-making.	Master degree in Human resource Mgt	
		58.Ms. Teonesia Moses Gushema	Master of Science in Procurement and Supply Management	Determinants Influencing Performance of Fruits and Vegetables Supply Chain in Tanzania: A Case of Tanzania Agricultural Research Institute	Master of Science in Procurement and Supply Management	
		59.Mr. Zachary Eligius Ngatunga	Master of Arts in Economics	Impact of Agricultural Research-Driven Interventions on Poverty Reduction and Livelihood Improvement in Tanzania	Master of Arts in Economics	
		60.Ms. Martha Thomas Magesa	Master of Science in Procurement and Supply Management	Evaluating Procurement System Effectiveness in Supporting timely and Cost-Efficient Delivery at TARI Centre's	Master of Science in Procurement and Supply	
		61.Mr. Mugini Adam Singira	Master of Arts in Mass Communication	The Role of Local Radio in Communicating the impact of Climate Change to Rural farming Communities	Master of Arts in Mass Communication	
		62.Mr. Shadrack Simon Kaganga	Master Of Human Resource Management	The Impact of Employee Mobility on Organizational Performance In Tanzania	Master Of Human Resource Management	
		63.Ms. Rahma Ramadhan Mtulya	Master of Science in Procurement and Supply	Assessment of Adoption and Functionability of E-	Master of Science in Procurement and	

			chain Management	Procurement Systems on Cost Reduction in Supply Chain Management: A Case Study of a Government Institution	Supply chain Management	
		64.Ms. Grace Nyasoro Sylivester	PhD in Business Administration	Strategic HRP for Advancing Women leadership in Agricultural Institutions in Tanzania	PhD in Business Administration	

B: RE- ADVERTISEMENT OF TFSRP SCHOLARSHIPS

1. STUDY AREAS OF INTEREST FOR POSTGRADUATE STUDIES

1.1 *Applied biological statistics and Data science*

Description and focus for research topics: The research topics should relate to testing experimental designs, data analysis methods, and testing theories in agricultural statistics. We will give high priority to researchers interested in developing models. Preferably, the candidate should apply and get admission for **MSc. in Agricultural Statistics**.

Number of scholarships: 2 MSc.

1.2 *Application of Artificial intelligence and ICT in agriculture*

Description and focus for research topics: TARI is keen to capitalize on the use of artificial intelligence and ICT in advancing agricultural research in Tanzania. AI has many uses in agriculture, including but not limited to detection of diseases, aiding in collection of data for plant breeding, yield prediction and planning, and automated farming tasks. Expression of interest is invited for any topic that aims at application of artificial intelligence in agriculture, including for precision agriculture, pathology, entomology, soil health, and crop breeding. Applicants demonstrating use of data science in their studies will be given high priority.

Number of scholarships: 1 MSc

1.3 *Management of invasive weeds in Tanzania*

Description and focus research topics: Noxious weeds such as *striga* spp. and invasive species, namely Kongwa weed (*Astripomoea hyoscyamoides*) and Parthenium (*Parthenium hysterophorus*), are significant threats to agriculture, pastoralism, and biodiversity because they reduce crop yields, limit grazing land, and displace native vegetation. The applicants are expected to demonstrate their readiness to develop management strategies for any of these weeds. One MSc. applicant may be considered to study weeds in water bodies as long as the candidate can demonstrate how important is the weed to agriculture.

Number of scholarships: 1 MSc 1 PhD

1.4 *Application of Mutational atomic breeding for development of crop varieties*

Description and focus research topics: The applicant should be ready to use mutational atomic breeding techniques in the development of crop varieties. The crops of interests are cotton, rice, and maize. The applicants may take advantage of experience and advances from ongoing activities regarding mutational breeding at TARI Dakawa, TARI Selian, and TARI Ukiriguru.

Number of scholarships: 2 MSc

1.5 *Application of nanotechnology for precision agriculture*

Description and focus research topics: Nanotechnologies are emerging agricultural technologies in our country. In the agricultural sector, nanotechnology can be applied in crop production, food processing and packaging, food security and water purification, environmental remediation, crop improvement, and plant protection. Any topics related to the application of nanotechnology in agriculture are okay, but applicants demonstrating use of nano fertilizers and pesticides in Tanzanian settings will be given high priority.

Number of scholarships: 2 MSc

1.6 *Agricultural and bioprocessing engineering and technologies*

This theme is now re-advertised as soil sciences

Description and focus research topics: The candidate will do post-graduate studies in soil sciences and is expected to acquire skills in soil classification and assessing land suitability.

Number of scholarships: 2 MSc

1.7 *Management of pesticides and other agricultural chemicals*

Description and focus research topics: We live in an era of unprecedented use of chemicals in form of fertilizers and pesticides. Unfortunately, these chemicals have been implicated to have effect on human health as well as in contaminating environments. In some instances, pesticides are thought to be deliberately sprayed onto vegetables, including tomato a few hours or days before harvesting. As research institute, TARI ought to generate evidence to show the magnitude of this problem in the country so as to be able to provide evidence-based advice to policy makers. The candidates may generate information on extent of use of the problematic fertilizers/pesticides and establish residues in water bodies, soils and plants (tomatoes). The candidate may develop models to predict/simulate persistence of pesticides and fertilizers in Tanzanian soils. Applicants interested in models will be required to identify the supervisor prior to being sponsored

Number of scholarships: 1 MSc

1.8 *Nutritional profiling in plants and human nutritional benefits of crop varieties*

Description and focus research topics: In developing countries most people consume foods from plants that they grow. Thus, growing nutrient dense crop varieties could translate into reduced malnutrition in smallholder farmers' households. The challenge has remained to be a lack of data about levels of nutrients in crop varieties developed by TARI and how these levels are affected by growing plants in diverse environments. Postgraduate studies under this category will be focused on how selected nutrients of a given crop vary across agro-ecological zones. The studies may as well investigate accumulation of toxic compounds in a given crop across zones and may seek to answer a question do varieties with certain compounds translate to reduced malnutrition in children or pregnant and lactating women?

Number of scholarships: 1MSc 1 PhD

1.9 Science Communication (Mass Communication Major)

Effective communication of research and innovations is essential for ensuring that scientific knowledge reaches policymakers, stakeholders, and the public in a clear and actionable way. This field focuses on translating complex scientific concepts into engaging messages using media, journalism, education, and marketing. Staff applying for this scholarship are expected to have or develop skills in simplifying complex scientific information, designing communication strategies, using media and digital platforms, and producing content that promotes awareness and adoption of TARI's researched technologies. They are also expected to develop materials such as articles, policy briefs, press releases, videos, and social media content that enhance understanding and application of TARI innovations.

Number of scholarships: 2 MSc

1.10 Agricultural practices and technologies for management of conflicts between pastoralists and farmers.

Description and focus research topics: Conflicts between livestock keepers and farmers have been experienced in different areas of our country. Scarcity of land for grazing due to increased human population and climate change which results into less and less pasture for grazing are some of the causes of conflicts. A study is needed to unravel and document underlying causes of conflicts between farmers and livestock keepers and recommend evidence-based strategies for management of conflict – what agricultural practices and technologies will reduce conflicts and misunderstanding between the two communities; informing the policy is key to this.

Number of scholarships: 1 PhD

2. SUGGESTED DEGREE PROGRAMMES

The applicants are reminded to have already been admitted for degree programs at higher learning institutions in Tanzania prior to applying for the scholarships. The applicants for scholarships can be enrolled in any of the degree programs shown below but may also enroll in other degree programs because what matters is the development of a topic or committing to do research in research areas listed above. However, the degree programs pursued must be those that are acceptable under TARI Schemes of Service. The conditions are the same for aspirants of PhD studies. Therefore, no study leave will be granted to applicants who pursue degree programs not contained in the Schemes of Service.

- MSc. in Agricultural Statistics
- MSc. in Molecular Biology and Biotechnology
- MSc. in Crop Science
- MSc. in Life Science
- MSc. in Sustainable Agriculture
- MSc. in Botany
- MSc. in Bioinformatics

- MSc. in Agricultural Data Science
- Master in Information and Knowledge Management
- Masters in Agricultural Robotics and Automation
- Masters of Public Relation and Mass Communication
- Master's Degree of Management Information System
- Master's Degree in Cybersecurity

3. GENERAL CONDITIONS

- All candidates must be TARI employees;
- Not more than 45 years old;
- All candidates must attach a letter of motivation and Concept Note research; **in motivation letter please specify the theme under which your application is submitted**
- Candidates must attach an up-to-date Curriculum Vitae (CV);
- Candidates must attach their certified copies of academic qualifications;
- All applicants must attach College/University admission documents **but may as well indicate they are certain to obtain admission letter after selection for a specified degree programme;**
- Women are highly encouraged to apply;
- Deadline for application is **five days (5)** from the date of this announcement.

Please apply to the following address:

Director General,
Tanzania Agricultural Research Institute,
Makutupora, Arusha Road,
P. O. Box 1571,
DODOMA.
E-Mail: application@tari.go.tz

Dr. Thomas Bwana
DIRECTOR GENERAL