



Opportunities for Collaborations, Partnerships, and Funding in Research, Technology and Innovation

National Research, Technology and Innovation Committee/Consortium (NARTIC)

2023/2024



**The National Research, Technology and Innovation Committee/Consortium (NARTIC),
MoE**

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1.0 Preamble

The role of Research, Science, Technology and Innovation (RSTI) in social economic development of a country is fundamental. New calls and programmes are constantly being announced and funding schemes continue to evolve and therefore facilitating Kenyan researchers and innovators to access the available opportunities is a priority in the sector. Kenya through the Ministry of Education seeks to enhance its participation in the Horizon Europe Programme and other similar Programmes through a well-coordinated awareness, empowerment and reporting framework as a means of escalating Kenya's investments in R&D and fostering STI Mainstreaming in MDAs.

To achieve this objective, the CS formed a focal point National Research, Technology and Innovation Consortium/Committee (NARTIC) to prepare, coordinate preparation of, and submit proposals to the Horizon Europe and to any other partner/donor funding agencies. The Terms of Reference (TORS) for NARTIC are as follows:

- i. To assess the current status and progress of Research, Science, Technology and Innovation, and provide a report to the Cabinet Secretary.
- ii. To review the Horizon Europe "call for proposals" as well as Strategic Priority Areas for the Horizon Europe Programme, and by so doing engage the relevant EU officers, and prepare and submit appropriate proposal.
- iii. To ensure that the Proposal developed is aligned to draft National Science, Technology and Innovation priorities developed by NACOSTI and is currently being canvassed by the MTP IV Working Group on Science, Technology and Innovation.
- iv. To review other available "calls for grant proposals" from various countries/institutions/missions, and by so doing engage relevant parties/missions on partnerships and collaborations.
- v. To provide regular updates and presentations to the Cabinet Secretary on matters listed above, including organizing trainings, Seminars, Workshops and Conferences where deemed necessary.
- vi. To undertake other relevant activities relevant to the advancement of research, science, technology and innovation within the spirit of Horizon Europe Programme.

One of the immediate focuses for NARTIC in execution of these ToRs is to enhance chances of Kenyan researchers to leverage of available funding opportunities. NARTIC has developed this awareness creation handout to facilitate access to open calls and enhance success rates for Kenyan researchers, share lessons and tips for successful grants applications.



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The Consortium will also present available opportunities from time to time and list potential funding agencies for researchers to note and strategize.

2.0 Lessons learnt from award winning proposals.

2.1 Key lessons from success grant beneficiaries

To increase grants applications success rates there are a number of important aspects to consider. Drawn from lessons learnt from the past successful grant applicants it is critical to consider these basic issues: -

- Researchers are highly encouraged to clearly understand and align to funding agencies - Mission, concerns and guidelines.
- Ensure the applications are aligned to the country needs and priorities to be strategically infused into the programmes
- Have the research proposals/concept notes to clearly outline the outreach strategies to the intended beneficiaries.
- To enhance uptake of research products and services, advisories to the national and county Governments need to be clearly articulated.
- Capturing key words/key themes- identify work programmes that calls require but in addition enhance value proposition by incorporating other aspects of interests.
- Inclusion of private sector/industry players as part of consortium to facilitate adoption and uptake and commercialization of products
- Clear IP management framework to be documented from onset, as well as ensuring products extension and commercialization framework are active
- Clearly articulating sustainability of the programme beyond donor funding cycle
- Cultural aspects and community needs are critical in conceptualizing proposals, inclusion of community players from early stages is critical
- All research have ethical issues, ensure research projects get ethical clearance and research licenses within STI regulatory framework
- Ensure factoring of Monitoring and Evaluation costs by external bodies in the proposed project
- Engagements with subject experts and colleagues who had successful projects provides useful tips for succeeding.

2.2 Grant capture tips

Research Grants capture strategies improve with participation in both grant writing and grant reviewing processes. The following are some of the tips that prospective applicants can use to increase their success rates:



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i. Funders /Donor intelligence

- Getting to know the funders well before you are applying for a grant is critical - their goals, focus, priorities areas.
- Due to the concept of publish or perish; win grants or perish many funding agencies receive a lot of applications and therefore they are likely to be biased due to the large number of applications received. To increase success rates for collaborations or forming Consortium with teams/partners with a good track record is highly advisable.
- Get the right partners with track record is key, funders always invests where chances of successful implementation of the project are high.
- Follow the instructions given by the funders in developing a proposal word-for -word.

ii. Well-written proposals is critical

- A good grant proposal must answer the 5W & H (Who, What, Where, When, Why & How)
- Consider the impact of the research - Explain pathways that links your work to improving livelihood of target beneficiaries.
- Competitive proposals have **good ideas** that are **communicated well** - Grant reviewers make decisions based only on written grant proposals - no opportunity to clarify unclear points in your proposal.
- What are the qualities to impart in writing a grant proposal, Key points:
- **Clarity, Conciseness, Persuasive** and Well-formatted.

iii. Know the grant review system

- Grants applications are typically reviewed by 3 to 4 reviewers. Ensure that you satisfy a specialist reviewer in your field and make a compelling and easy-to-ready case for a lay reviewer.
- Read the grant system instructions carefully. The sad truth is that it is easy for your proposal to be thrown out if you fail to follow instructions.

iv. Reporting

- As a key requirement to report to the funding agency, it is mandatory to report periodically to Kenya Government through existing set mechanisms.



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3.0 Whole government approach in team/Consortium formation

3.1 Rationale

To enhance chances of succeeding in grants bidding, the whole Government approach in forming consortium and partnerships is mandatory. This facilitates researchers and innovators to leverage existing resources in Government agencies and private sector to ensure successful implementation of projects and uptake of products and knowledge generated within the national priorities.

Consortium formation is one of the critical tasks that must be started early on in developing the proposal. Consortium is a key requirement to most of the funding agencies to ensure successful implementation of projects. To enhance chances of submitting and winning research grants multi-institution consortia is critical. Bringing together the right team for your project will give it the best chance of success and positive outcomes for Universities and Research Institutions.

Most funders may require specific approaches to project delivery, so researchers need to understand the tasks, skills and capacity of the project partners and find ways to bridge any gaps.

Working together in a consortium needs to be carefully managed. Significant efforts must be focused on finding the best partners for the projects/programmes within national priority areas.

3.2 Why it matters to form a Consortium:

In the longer term, a consortium approach makes the best use of the strengths of different organizations, provides strategic continuity, and can help to unlock different sources of funding or support. This joined-up approach also benefits fast tracking of the project.

3.3 Key steps to take in Consortium formation

- i. **Map potential partners** – identify the organizations that could be part of a consortium with shared goals. Start by reflecting on any current or previous consortium and possibly about who could be involved. Focus on why organizations should be included
- ii. **Making contact** – start by making informal contact at the right level to sound out the opportunity.
- iii. **Agree a shared purpose** – each organization will need to be clear about what the consortium is for. This can start out working together on one bid or project, or you may want to put in place a longer-term partnership working towards national priority areas



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- iv. **Agree roles and responsibilities** – each partner will need to know what they are expected to do and the time and resources that this might require.
- v. **Create a consortium agreement** – this could be a short statement of purpose as part of your project plan or it could be a more formal and structured local partnership. A written agreement will help to set out how you will work with your partners
- vi. **Revisit purpose and partners** – your consortium may change over time so it's important to review the purpose and the partners involved
- vii. **Start early** - Forming a consortium takes time and effort and can take longer than you think.

4.0 Trending Active Calls for Proposals

Currently there are a number of strategic funding opportunities available for Kenyans researcher to apply. The available opportunities that are open proposals include

- i) **Horizon Europe** - Horizon Europe is an EU programme for funding Research and Innovation, running from 2021 to 2027. Under this programme the call for proposals for 2023/2024 period in different thematic areas are open. Access Link:- <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/reference-documents;programCode=HORIZON>

Key aspects of the call:-

- Total available budget of 95 billion Euro for the period 2021-2027
- Funding Agency -EU through European Commission
- Eligibility (Legal entities, Researchers, Public bodies and Small and medium-sized businesses)
- Joint application with an EU partner

ii) Postdoctoral Fellowships

This Postdoctoral Fellowships give researchers holding PhD degree a chance to gain new skills and experience whilst carrying out their own research project abroad. The deadline to apply is 13 September 2023.

The application details can be accessed through this link: - [MSCA opens €260 million call for Postdoctoral Fellowships | Marie Skłodowska-Curie Actions \(europa.eu\)](https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/reference-documents;programCode=MSCA)

iii) Africa Young Innovators for Health Award

The Africa Young Innovators for Health Award is a programme focused on supporting young health entrepreneurs across Africa with the tools they need



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to advance promising healthcare solutions for the betterment of their communities.

The award is open for young African innovators (aged 21 to 35) who have already developed a minimum viable healthcare product/ service or are in the process of developing such a product or service that contributes to achieve Universal Health Coverage. The opportunities can be accessed through this link: [Africa Young Innovator \(africayounginnovatorsforhealth.org\)](http://africayounginnovatorsforhealth.org)

iv) Grants, Endowments, Awards and Fellowships

The funds for NGOs platform provides a number of funding and awards opportunities. There are open calls such as:-

- Resilient Agriculture Innovations for Nature grants
- Clean energy challenge
- Accelerator grants for startups for technology in the Blue Economy
- African Rural Woman Innovative Entrepreneur Award
- Equity & Inclusivity in Research Mentorship Program.

<https://www2.fundsforngos.org/tag/funding-opportunities-and-resources-in-kenya/>

v) United Nations Educational, Scientific and Cultural Organization (UNESCO) – There are two open where Kenyan researchers are eligible to apply.

These include: -

Calls for proposals for the 2023 Silk Roads Youth Research Grant for young researchers <https://www.unesco.org/en/articles/deadline-extended-unesco-calls-proposals-2023-silk-roads-youth-research-grant> -

Key aspects of the call:-

- A total of USD10,000 per research project.
- Funding Agency – UNESCO
- Eligibility - Young researchers under the age of 35 year

UNESCO call for applications to the International Fund for Cultural Diversity (IFCD) for researchers from developing countries -

<https://www.unesco.org/en/articles/2023-call-applications-unescos-international-fund-cultural-diversity-now-open>

Key aspects of the call:-



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- Funding Agency -UNESCO
- Eligibility - Researchers protecting and promoting the diversity of cultural expressions
- Promoting conditions for cultures to flourish and to freely interact in a mutually beneficial manner.
- Creating conditions for cultures to flourish and to freely interact in a mutually beneficial manner.

vi) The Japan Society for the Promotion of Science (JSPS):-

Providing opportunities for Kenyans targeting: -

- How to fostering Next Generation of Researchers
- Enhancing the Education and Research Functions of Universities
- Promoting International Collaborations

Link: <https://www.jsp.go.jp/english/e-programs/index.html>

Key aspects of the call:-

- Funding Agency -
- Eligibility,
- Key features

vii) International Centre for Genetic Engineering and Biotechnology (ICGEB)

Calls for Doctoral and Postdoc fellowship programmes in Biotechnology -
<https://www.icgeb.org/activities/fellowship/>

Key aspects of the call:-

- Provide Biotechnology training opportunities for Kenyans in the following categories:-
- Doctoral students
- Postdoc fellowship programmes

viii) Joint Japan/World Bank Graduate Scholarship Program - the Call for Master's degree programme is open to citizens from developing countries
<https://www.worldbank.org/en/programs/scholarships/jj-wbgsp>

ix) Norwegian Agency for Development Cooperation (NORAD) - Call for proposals - Innovation and Entrepreneurship on food security, climate and environment in Sub-Saharan Africa

This call is aimed at contributing to innovation and entrepreneurship in Sub-Saharan Africa on food security, blue economy, climate adaptation, marine



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litter, renewable energy and clean cooking solutions, and aquaculture. It is targeted towards experienced incubators, accelerators and SME funds in Africa and towards financial institutions that can contribute to the scaling up of promising innovations.

<https://unitednationscareers.com/call-for-proposals-innovation-and-entrepreneurship-on-food-security-climate-and-environment-in-sub-saharan-africa/>

x) International Federation of Pharmaceutical Manufacturers and Associations (IFPMA)

The World Food Forum (WFF) Startup Innovation Awards, powered by Extreme Tech Challenge (XTC) are a global startup competition established to support and showcase innovators and entrepreneurs who are harnessing the power of technology to drive the sustainable transformation of agrifood systems in support of ending global hunger and achieving the Sustainable Development Goals.

<https://opportunitydesk.org/2023/06/02/un-wff-startup-innovation-awards-2023/>

xi) Kenya-US Cyber Security capacity development programme

The programme provides capacity development opportunities for Kenyans on Cybersecurity-for-Biological Laboratories Professional Certification to Build Global Expertise in Mitigation Options to Address Information Technology and Operational Technology Risks Specific to Laboratories in Kenya and South Africa. The programme is offered both virtual and in-person components in July 2023 where NACOSTI is the focal point.



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5.0 Opportunities available under international treaties, conventions and agreements of which Kenya is a Signatory

(i) African Regional Cooperative Agreement for Research, Development and Training related to Nuclear Science and Technology (AFRA)

The African Regional Cooperative Agreement for Research, Development and Training related to Nuclear Science and Technology (AFRA), is an intergovernmental Agreement established by African Member States to strengthen and enlarge the contribution of nuclear science and technology to socioeconomic development on the African continent. AFRA, which entered into force on 4th April 1990, provides a framework for African Member States to intensify their collaboration through programmes and projects focused on the specific shared needs of its members. Its activities cover a wide range of peaceful applications of nuclear techniques that contribute to the achievement of national and regional development goals.

Kenya is actively involved in 38 AFRA projects that span across 7 different thematic areas, which include Health and Nutrition, Food and Agriculture, Water and Environment, Energy Planning, Radiation Safety, Industrial Applications, and Nuclear Knowledge Management. These AFRA projects are coordinated by project counterparts who are based in various institutions and are overseen by the AFRA Coordinator, NACOSTI. These projects are part of the AFRA 2020-2023 Technical Cooperation Cycle and are aligned with the five priority areas for cooperation as outlined in the new AFRA Regional Corporation Framework (RCF) for 2019-2023. Additionally, these projects contribute to the implementation of the Commission's Resource Mobilization Strategy

(ii) The Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO) Program

The Comprehensive Nuclear-Test-Ban Treaty (CTBT) bans nuclear explosions by everyone, everywhere: on the earth's surface, in the atmosphere, underwater and underground.

NACOSTI is the National Focal Point for nuclear-related matters in Kenya, while the University of Nairobi serves as the implementing agency. The Preparatory Commission to the Comprehensive Nuclear Test Ban Treaty Organization (PrepCom) provides trainings and workshops for State Parties, which Kenyans have benefited from, promoting the Treaty and its verification regime. Additionally, Kenya hosts two certified stations that are part of the International Monitoring System (IMS) global network of facilities established by the PrepCom to monitor underground, oceanic, and atmospheric activity for evidence of a nuclear explosion or nuclear test. These



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stations are the certified Seismic (Primary) PS24 station located in Kilimambogo and the certified Infrasound station IS32 in Karura, Nairobi.

The National Focal Point oversees the operation of the stations in Kenya, as well as the management of the National Data Centre (NDC) at the University of Nairobi's Department of Geology. The centre relays raw data to CTBTO and receives processed data from CTBTO for research and training. The centre also coordinates training for capacity building in technical areas relevant to the Convention. Recently, the CTBTO has donated equipment worth US\$ 77,405.00, which is to be used to upgrade the Kenyan station currently manned by staff of University of Nairobi.

(iii) Biological Weapon Convention (BWC)

The Biological Weapons Convention (BWC) prohibits the development, production, and stockpiling of biological agents and related equipment and delivery systems that are intended for hostile use, with the aim of preventing the use of biological weapons. States Parties to the convention have the responsibility to abide by the following provisions: to prohibit the production and stockpiling of pathogens if there is no justification for peaceful or defensive purposes, not to develop biological weapons for hostile purposes, to destroy or divert existing stocks of prohibited items to peaceful purposes, to refrain from transferring prohibited items to anyone or helping in the manufacture or acquisition of biological weapons, to protect the rights of their citizens to exchange equipment, materials, and scientific and technological information for peaceful purposes to avoid hampering economic and technological development, to cooperate in solving problems through consultation and carrying out investigations initiated by the UN Security Council, and to provide assistance to others that have been attacked using biological weapons.

The Biological Weapons Convention (BWC) is a treaty that is managed by the United Nations Office of Disarmament Affairs (UNODA) and is implemented through the BWC Implementation Support Unit (ISU), which serves as the Secretariat. NACOSTI serves as Kenya's National Focal Point for the BWC, responsible for leading the country's implementation efforts to fulfill its obligations and commitments under the Convention

(iv) Biological Weapons Convention Implementation by the United National Office for Disarmament Affairs (UNODA) and NACOSTI

The Project supports universalization and effective implementation of the Biological Weapons Convention (BWC) in Africa. The Project is funded by the Global Partnership Against the Spread of Weapons and Materials of Mass Destruction ('Global Partnership' or 'GP'), and implemented by UNODA's Implementation Support Unit (ISU) for the BWC.



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The project aims to support universalization and effective implementation of the BWC in Africa by:

- Promoting universalization of the Convention,
- Providing assistance for the development of BWC implementing and legislation,
- Supporting the preparation and submission of Confidence Building Measures (CBMs), and
- Facilitating the establishment or designation of National Contact Points (NCPs).

(v) Biological Weapons Convention Implementation by the Verification Research, Training, and Information Centre (VERTIC) and NACOSTI

Kenya in partnership with VERTIC through the Biological Weapon Convention Implementation Support Unit aims at strengthening national measures necessary to implement the provisions of the BWC such as institutional strengthening of the convention through a national legislation. The process of Biosecurity legislation has been initiated and is on-going.

Kenya has received assistance from the government of United States of America with particular focus on strengthening Cooperation and assistance under Article X which focuses on the developments in Science and Technology. Kenya has received assistance in capacity building for over 50 experts in the areas of IT and life science to address cyber-biosecurity risks. These experts have been trained to assess cyber risk, implement critical cybersecurity measures at their own facilities, and promote cyber risk management capability at the national, regional, and global levels. With the increasing digitalization of institutions, a wide range of networked devices and systems are critical for the management of facility infrastructure and activities, including building automation and energy management systems, communications, sensitive data storage, and computational infrastructure. It is crucial to maintain the security of these valuable components to keep facilities operational and minimize the risk of security breaches.

(vi) Biological Weapons Convention Implementation by the US State Department and NACOSTI

- ❖ Development of a Cybersecurity-for-Biological Laboratories Professional Certification to Build Global Expertise in Mitigation Options to Address Information Technology and Operational Technology Risks Specific to Laboratories in South Africa and Kenya

CRDF Global, in collaboration with the International Federation of Biosafety Associations (IFBA), will support the development of a professional certification in



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Cybersecurity for biological laboratories. In this two-phase project, a committee of experts in cybersecurity and biosecurity will convene to develop a body of knowledge to be tested for the certification. In addition to the content requirements for this certification, the committee will advise the creation of materials such as curricula, study guides, and other documents necessary to support a five-day training on the pilot certification for at least eight Kenyans and between 10-12 South Africans. Upon conclusion of each training session, the participants will sit for the certification examination and will subsequently be credentialed in the new certification upon successful completion of the requirements outlined by the technical committee.

❖ Developing and Implementing Cybersecurity Risk Management Programs in High Containment Laboratories in Sub-Saharan Africa and Southeast Asia

The US State Department, through Gryphon Scientific, with support from Veribo Analytics, LLC and regional consultants, and under the coordination of NACOSTI seek to develop and test a cyber-risk analysis and assessment tool in collaboration with High Containment Laboratories (HCLs) in Sub-Saharan Africa and Southeast Asia. By bringing together cybersecurity experts and HCL laboratory personnel, this project aims to equip participants with the necessary knowledge and skills to assess cyber risk, implement critical cybersecurity mitigations at their own laboratories, and promote cyber risk management capability regionally and around the world. In the long term, the team hopes that these activities help connect interested stakeholders who can be global leaders in addressing cybersecurity risks in biological laboratories.

❖ Workshop on “Securing Genomic Data – Advanced Training Workshop”

The U.S. Department of State’s Office of Cooperative Threat Reduction (CTR) and CRDF Global, under the coordination of the National Commission for Science, Technology, and Innovation (NACOSTI) invites representatives from Kenya to participate in a free workshop that seeks to protect genomic data in Kenya entitled Securing Genomic Data – Advanced Training Workshop. This two-day, in-person workshop in Nairobi, Kenya, will be hosted on May 30-31, 2023. This workshop seeks to develop a consortium working group of Kenyan scientists and decision-makers to action plan, raise awareness on know-your-supplier best practices, and strengthen the cybersecurity posture of personnel at institutions that sequence, analyze, store, or otherwise work with human genomic data, which faces increasing threat of cyber and physical attack from state and nonstate threat actors seeking to gain access to sensitive human genomic data for potential WMD creation and use.



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Summary Table: U.S. Department of State, Office of Cooperative Threat Reduction, and The National Commission for Science, Technology, and Innovation (NACOSTI) Collaborations

Project No.	Project Title	Activity	Target Audience	No of participants	U.S Implementing Partner	Timeline	Contact Person
1.	Government Roundtable discussion on Genomic Data Information Security	Virtual Round Table with experts from CNS to discuss genomic data information security, potential hazards of vulnerable cyber storage of genomic information and best practices to secure this information, and regulations and challenges that different sectors might be concerned with	Government officials involved with science, technology and innovation policy, biotechnology innovation, genomic data or sequencing, data security, biosecurity, industry partnerships. NACOSTI suggests that Ministry of Foreign Affairs, National Défense University, Directorate of Criminal Investigation, Office of the President	TBC	The James Martin Centre for Non-proliferation Studies (CNS)	Names required by 6 October Roundtable Discussion by Early November	LY Minh
2.	Workshop on Risks and Opportunities of Emerging Technologies	Two-day workshop or conference, bringing together at least 20 Kenyan participants with the experts from	Government agencies who attended the webinar series from NACOSTI, the Bureau of Standards,	20 Kenyans	CRDF Global,	November or December 2022	Marta Kosmyna



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Project No.	Project Title	Activity	Target Audience	No of participants	U.S Implementing Partner	Timeline	Contact Person
		the online webinar series (May-June 2022) and local experts on emerging technologies and WMD. Technologies of most interest will be selected in coordination with Kenyan stakeholders.	Medical Research Institute, Kenya Industrial Property Institute, Ministry of the Interior, Agriculture and Livestock Research Organisation, National Biosafety Authority, and other relevant stakeholders				
3.	Protecting Information Technology Systems Containing Genomic Data	Virtual Webinar, Online Course, followed by a In-person Workshop in Cape Town, South Africa	Lab scientists, IT/Cybersecurity staff from laboratories or companies that store genomic data, Representatives from start-ups or private companies working conducting stem cell research, paternity testing, precision medicine, or other topics related to genomic data	25 Scientists 15 IT staff 10 start up	CRDF Global,	Give names by December 2022 1st phase training - January 2023	RJ Silva



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Project No.	Project Title	Activity	Target Audience	No of participants	U.S Implementing Partner	Timeline	Contact Person
4.	Developing and Implementing Cybersecurity Risk Management Programs in High Containment Laboratories in Sub-Saharan Africa	This project will engage high containment labs (HCLs) in several African countries, including Kenya. Scoping discussions are ongoing, and an in-person workshop will be held tentatively in January 2023. A call for grants announcement will be released early 2023 for participants to have the opportunity to apply for security enhancement grants for their laboratories.	Scientists and laboratory personnel from high containment labs in Kenya	TBC	CRDF Global	January 2023	Julia Scordo



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(vii) The International Centre for Genetic Engineering and Biotechnology (ICGEB)

The International Centre for Genetic Engineering and Biotechnology (ICGEB) is an intergovernmental organization that was established in 1983 through the United Nations Industrial Development Organization (UNIDO). Kenya became a member of the ICGEB on 29th August 2010, along with 66 other governments. The objectives of the ICGEB are to promote the safe and beneficial use of biotechnology, particularly in developing countries, by promoting research, training, and technology transfer. Kenya's obligations as a member include participating in the decision-making of the ICGEB Board of Governors, recommending scientists and students for ICGEB training, and encouraging scientists to organize and request funding for ICGEB training.

Kenya has received support from ICGEB to train PhD and Post-doctoral students in various fields such as biomedicine, crop improvement, environmental protection and remediation, biopharmaceuticals, biopesticide production, COVID-19 diagnostics, and cancer genomics. This capacity building has provided valuable opportunities for Kenya's scientific community to enhance their knowledge and skills. Additionally, scientists have been able to access state-of-the-art laboratories belonging to ICGEB. The Director General NACOSTI is responsible for identifying and sharing information on opportunities provided by ICGEB to the science, technology, and innovation community in Kenya.

In the financial year 2022/2023, NACOSTI endorsed proposals for funding to host meetings and courses, as well as for the Arturo Falaschi ICGEB Fellowship Programme. Dr. Stella Nyambura Irungu received a post-doctorate award from the Arturo Falaschi ICGEB Fellowship Programme to conduct cancer research in South Africa. The fellowship started on August 15, 2021, and ended on August 15, 2022, with an approximate stipend of Ksh. 1,571,283 for one year, excluding the research fund.

Furthermore, NACOSTI was granted Ksh.1,938,131.58 by ICGEB in August 2022, after submitting a proposal to host a regional workshop on "Strengthening Advanced Biotechnologies in Agricultural Research in East and Central Africa through Regional Research Centres" to be held in May 2023.



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6.0 Contact information

<p>CONTACT DETAILS Prof. Walter O. Oyawa Director General/CEO & Chair NARTIC National Commission for Science, Technology and Innovation (NACOSTI) off Waiyaki Way, Upper Kabete, P. O. Box 30623, 00100 Nairobi, KENYA</p>	<p>Email: dg@nacosti.go.ke and copy to; david.ngigi@nacosti.go.ke Land line: 020 4007000, 020 2241349, 020 3310571, 020 8001077 Wireless: 020 267 3550 Mobile: 0713 788 787 / 0735 404 245 WhatsApp: 0792 746282</p>
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7.0 Funding opportunities – Open Calls for proposals

S/No	Name of the Funding Agencies	Brief Description	Call for applications	Eligibility
1.	Horizon Europe 2012-2027 framework	<p>Horizon Europe is the EU's key funding programme for research and innovation with a budget of €95.5 billion.</p> <p>It tackles climate change, helps to achieve the UN's Sustainable Development Goals and boosts the EU's competitiveness and growth.</p> <p>The programme facilitates collaboration and strengthens the impact of research and innovation in developing, supporting and implementing EU policies while tackling global challenges. It supports creating and better dispersing of excellent knowledge and technologies</p>	<p>Multiple calls in different work programmes are open for Kenyans for the period 2023-2024 and accessible through the funding and opportunities EU portal</p> <p>https://tinyurl.com/ywkyhzc3</p>	<p>Kenyans researchers, Institutions and SMEs are eligible to apply</p> <p>https://tinyurl.com/msxbr58b</p>



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S/No	Name of the Funding Agencies	Brief Description	Call for applications	Eligibility
2.	Marie Sklodowaska Postdoctoral Fellowships	This Postdoctoral Fellowships give researchers holding PhD degree a chance to gain new skills and experience whilst carrying out their own research project abroad. The deadline to apply is 13 September 2023.	The application details can be accessed through this link:- MSCA opens €260 million call for Postdoctoral Fellowships Marie Skłodowska-Curie Actions (europa.eu)	Postdoc researchers
3.	Africa Young Innovators for Health Award	The Africa Young Innovators for Health Award is a programme focused on supporting young health entrepreneurs across Africa	The opportunities can be accessed through this link: Africa (africayounginnovatorsforhealth.org)	Young African innovators (aged 21 to 35)
4.	The funds for NGOs platform: Grants, Endowments, Awards and Fellowships	The funds for NGOs platform provides a number of funding and awards opportunities. There are open calls such as:- <ul style="list-style-type: none"> • Resilient Agriculture Innovations for Nature grants • Clean energy challenge • Accelerator grants for startups for technology in the Blue Economy • African Rural Woman Innovative Entrepreneur Award 	Access link: https://www2.fundsforngos.org/tag/funding-opportunities-and-resources-in-kenya/	



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S/No .	Name of the Funding Agencies	Brief Description	Call for applications	Eligibility
		<ul style="list-style-type: none"> Equity & Inclusivity in Research Mentorship Program. 		
5	UNESCO United Nations Educational, Scientific and Cultural Organization	UNESCO contributes to peace and security by promoting international cooperation in education, sciences, culture, communication and information. UNESCO promotes knowledge sharing and the free flow of ideas to accelerate mutual understanding and a more perfect knowledge of each other's lives.	<p>1) Calls for proposals for the 2023 Silk Roads Youth Research Grant</p> <p>USD10,000 will be awarded per research project. https://www.unesco.org/en/articles/unesco-calls-proposals-2023-silk-roads-youth-research-grant#</p> <p>2) UNESCO call for applications to the International Fund for Cultural Diversity (IFCD). Through an open and competitive process, projects will be selected based on their</p>	<p>Young women and men under the age of 35 to apply</p> <p>Developing countries that are Parties to the 2005 Convention</p>



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S/No .	Name of the Funding Agencies	Brief Description	Call for applications	Eligibility
			<p>ability to generate concrete and lasting results towards the development of the creative sectors in developing countries</p> <p>https://www.unesco.org/en/articles/2023-call-applications-unescos-international-fund-cultural-diversity-now-open</p>	
6	The Japan Society for the Promotion of Science (JSPS)	JSPS is an independent administrative institution, established by way of a national law for the purpose of contributing to the advancement of science in all fields of the natural and social sciences and the humanities. JSPS plays a pivotal role in the administration of a wide spectrum of Japan's scientific and academic programs.	<ul style="list-style-type: none"> • Fostering Next Generation of Researchers • Current open Programmes are as below:- • Support for Research Initiatives • Enhancing the Education and Research Functions of Universities • International Collaborations 	https://www.jsps.go.jp/english/e-programs/index.html



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S/No	Name of the Funding Agencies	Brief Description	Call for applications	Eligibility
7	International Centre for Genetic Engineering and Biotechnology (ICGEB)	The ICGEB is a unique intergovernmental organisation initially established as a special project of UNIDO. Autonomous since 1994, it runs over 45 state-of-the-art laboratories, in Trieste, Italy, New Delhi, India and Cape Town, South Africa and forms an interactive network with almost 70 Member States, with operations are aligned to those of the United Nations System. It plays a key role in Biotechnology promoting Research excellence, Training, and Technology Transfer to industry, to contribute in concrete terms to sustainable global development.	Call for Doctoral and Postdoc fellowships programmes in https://www.icgeb.org/activities/fellowship/	Calls open for Biotechnologists
			Call for Collaborative Research Programme 2023 – Research Grants now open. https://www.icgeb.org/wp-content/uploads/2023/01/CRP-Guidelines_2023.pdf https://www.icgeb.org/wp-content/uploads/2023/01/CRP_online_submission_guidelines_Jan2023_FV.pdf	Open Applicants for research grant proposals (identified as “CRPs”) should hold positions at Universities or Research Institutes in any of the ICGEB Member States. Deadline – 30th April 2023
8	World bank	Next phase of Africa Centres of Excellence (ACE Project)	Request by Kenya is under review by the World-bank	Being reviewed
		Joint Japan/World Bank Graduate Scholarship Program	This is open to citizens of certain developing countries with relevant professional	https://www.worldbank.org/en/programs/scholarships/jj-wbgsp



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S/No .	Name of the Funding Agencies	Brief Description	Call for applications	Eligibility
			experience and a history of supporting their countries' development efforts who are applying to a master degree program in a development-related topic.	



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8.0 List of Potential Funding Agencies

Funding agencies				
S/No	Name of the Funding Agencies	Brief Description	Call for applications	Eligibility
1.	Horizon Europe 2012-2027 framework	<p>Horizon Europe is the EU's key funding programme for research and innovation with a budget of €95.5 billion.</p> <p>It tackles climate change, helps to achieve the UN's Sustainable Development Goals and boosts the EU's competitiveness and growth.</p> <p>The programme facilitates collaboration and strengthens the impact of research and innovation in developing, supporting and implementing EU policies while tackling global challenges. It supports creating and better dispersing of excellent knowledge and technologies</p>	<p>Multiple calls (406) currently open and accessible through the funding and opportunities EU portal</p> <p>https://tinyurl.com/ywkyhzc3</p>	<p>Low- and middle-income countries.</p> <p>https://tinyurl.com/msxbr58b</p>
2.	UNESCO United Nations Educational, Scientific and	<p>UNESCO contributes to peace and security by promoting international cooperation in education, sciences, culture, communication and information. UNESCO promotes knowledge sharing</p>	<p>1) Calls for proposals for the 2023 Silk Roads Youth Research Grant</p>	<p>Young women and men under the age of 35 to apply</p> <p>Submission Deadline -</p>



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Funding agencies

S/No .	Name of the Funding Agencies	Brief Description	Call for applications	Eligibility
	Cultural Organization	and the free flow of ideas to accelerate mutual understanding and a more perfect knowledge of each other's lives.	<p>-USD10,000 will be awarded per research project.</p> <p>https://www.unesco.org/en/articles/unesco-calls-proposals-2023-silk-roads-youth-research-grant#</p> <p>2) UNESCO call for applications to the International Fund for Cultural Diversity (IFCD). Through an open and competitive process, projects will be selected based on their ability to generate concrete and lasting results towards the development of the creative sectors in developing countries</p> <p>https://www.unesco.org/en/articles/2</p>	<p>Developing countries that are Parties to the 2005 Convention</p>



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Funding agencies				
S/No	Name of the Funding Agencies	Brief Description	Call for applications	Eligibility
			023-call-applications-unescos-international-fund-cultural-diversity-now-open	
3.	The Japan Society for the Promotion of Science (JSPS)	JSPS is an independent administrative institution, established by way of a national law for the purpose of contributing to the advancement of science in all fields of the natural and social sciences and the humanities. JSPS plays a pivotal role in the administration of a wide spectrum of Japan's scientific and academic programs.	<ul style="list-style-type: none"> • Fostering Next Generation of Researchers • Current open Programmes are as below:- • Support for Research Initiatives • Enhancing the Education and Research Functions of Universities • International Collaborations 	https://www.jsps.go.jp/english/e-programs/index.html
4.	ICGEB International Centre for	The ICGEB is a unique intergovernmental organisation initially established as a special project of UNIDO.	Call for Collaborative Research	Open



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Funding agencies				
S/No	Name of the Funding Agencies	Brief Description	Call for applications	Eligibility
	Genetic Engineering and Biotechnology	Autonomous since 1994, it runs over 45 state-of-the-art laboratories, in Trieste, Italy, New Delhi, India and Cape Town, South Africa and forms an interactive network with almost 70 Member States, with operations are aligned to those of the United Nations System. It plays a key role in Biotechnology promoting Research excellence, Training, and Technology Transfer to industry, to contribute in concrete terms to sustainable global development.	<p>Programme 2023 – Research Grants now open.</p> <p>https://www.icgeb.org/wp-content/uploads/2023/01/CRP-Guidelines_2023.pdf</p> <p>https://www.icgeb.org/wp-content/uploads/2023/01/CRP_online_submission_guidelines_Jan2023_FV.pdf</p>	<p>Applicants for research grant proposals (identified as “CRPs”) should hold positions at Universities or Research Institutes in any of the ICGEB Member States.</p> <p>Deadline – 30th April 2023</p>
5.	CODESRIA - Council for the Development of Social Science Research in Africa CODESRIA is headquartered in Dakar, Senegal and is accredited with diplomatic status in Senegal,	The Council for the Development of Social Science Research in Africa (CODESRIA) is an independent, pan-African, non-governmental research organisation founded in 1973 by African researchers. Its establishment was driven by a desire to build an autonomous Pan-African scientific community capable of interpreting realities in Africa and contributing to scholarly, public and policy debates on African and global issues.	<p>CODESRIA advanced senior research grants for higher education studies:</p> <p>Deadline: March 15th, 2023</p> <p>https://codesria.org/codesria-advanced-senior-research-grants-for-higher-education-studies-call-for-proposal/</p>	Closed



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Funding agencies				
S/No	Name of the Funding Agencies	Brief Description	Call for applications	Eligibility
6.	World bank	Next phase of Africa Centres of Excellence (ACE Project)	Request by Kenya is under review by the World-bank	
7.		Joint Japan/World Bank Graduate Scholarship Program	This is open to citizens of certain developing countries with relevant professional experience and a history of supporting their countries' development efforts who are applying to a master degree program in a development-related topic.	https://www.worldbank.org/en/programs/scholarships/jj-wbgsp
8.	Norwegian Agency for Development Cooperation (NORAD)	This call is aimed at contributing to innovation and entrepreneurship in Sub-Saharan Africa on food security, blue economy, climate adaptation, marine litter, renewable energy and clean cooking	Call for proposals - Innovation and Entrepreneurship on food security, climate and	https://unitednationscareers.com/call-for-proposals-innovation-and-entrepreneurship-on-food-security-climate-and-environment-in-sub-saharan-africa/



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Funding agencies

S/No	Name of the Funding Agencies	Brief Description	Call for applications	Eligibility
		solutions, and aquaculture. It is targeted towards experienced incubators, accelerators and SME funds in Africa and towards financial institutions that can contribute to the scaling up of promising innovations.	environment in Sub-Saharan Africa	
9.	UN World Food Forum (WFF) Startup Innovation Awards	The World Food Forum (WFF) Startup Innovation Awards, powered by Extreme Tech Challenge (XTC) are a global startup competition established to support and showcase innovators and entrepreneurs who are harnessing the power of technology to drive the sustainable transformation of agrifood systems in support of ending global hunger and achieving the Sustainable Development Goals.	2023 UN WFF Startup Innovation Awards	https://opportunitydesk.org/2023/06/02/un-wff-startup-innovation-awards-2023/
10.	International Federation of Pharmaceutical Manufacturers and Associations (IFPMA)	The Africa Young Innovators for Health Award is the International Federation of Pharmaceutical Manufacturers and Associations (IFPMA) and Speak Up Africa's flagship program focused on supporting young health entrepreneurs across Africa with the tools they need to	Nominations Open: Africa Young Innovators for Health Award	https://www2.fundsforngos.org/health/nominations-open-africa-young-innovators-for-health-award/ Deadline: 31-Jul-23



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Funding agencies				
S/No	Name of the Funding Agencies	Brief Description	Call for applications	Eligibility
		advance promising healthcare solutions for the betterment of their communities.		
11.	International Development Research Centre (IDRC). The head office is located in Ottawa, Canada, while five regional offices located in Montevideo, Uruguay; Nairobi, Kenya; Dakar, Senegal; Amman, Jordan; and New Delhi, India.	IDRC offers grants, funding, and awards to researchers and institutions to find solutions for global development challenges. Through calls for research proposals, IDRC funds projects that aim to foster climate-resilient food systems, global health, education and science, democratic and inclusive governance, and sustainable and inclusive economies in developing countries. Gender equality and inclusion are also central to our strategy and the research we support.	No openings currently	N/A
12.	RISA The 'Research and Innovation Systems for Africa' Fund is a	The 'Research and Innovation Systems for Africa' Fund is a programme to support and strengthen research and innovation systems in six countries: Ghana, Kenya, Nigeria, Rwanda, South Africa, and	No openings currently	N/A



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Funding agencies				
S/No .	Name of the Funding Agencies	Brief Description	Call for applications	Eligibility
	multi-country project funded by the UK, through the Foreign Commonwealth and Development Office (FCDO), to support research and innovation systems strengthening in Africa	Ethiopia. The programme runs from 2021 to 2024. The RISA mission is to provide grants to fund homegrown solutions to the continent's toughest challenges.		
13.	UNCTAD United Nations Conference on Trade and Development	UNCTAD receives request for technical assistance from a developing countries. In 2022, UNCTAD had 225 ongoing projects with expenditures amounting to \$52.7 million in 73 countries, many of them least developed. Through our assistance, developing countries can better integrate into the global economy by transforming economies, tackling vulnerabilities,		



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Funding agencies				
S/No	Name of the Funding Agencies	Brief Description	Call for applications	Eligibility
		improving competitiveness, and empowering people.		
14.	AFRA The African Regional Cooperative Agreement for Research, Development and Training related to Nuclear Science and Technology	AFRA is an intergovernmental Agreement established by African Member States to strengthen and enlarge the contribution of nuclear science and technology to socioeconomic development on the African continent. AFRA, which entered into force on 4th April 1990, provides a framework for African Member States to intensify their collaboration through programmes and projects focused on the specific shared needs of its members.		
15.	UN Sustainable Development Goals (SDGs) Collaborative Funding Call	This is a pilot call aiming to accelerate the achievement of the SDGs, through the implementation of results from ongoing or recently finalised research and innovation projects to advance knowledge-based achievement of the SDGs, from local to regional scale. Kenya is participating through NACOSTI and National Research Fund (NRF). Successful projects will be funded through international consortia		



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Funding agencies				
S/No .	Name of the Funding Agencies	Brief Description	Call for applications	Eligibility
		where researchers together with implementation partners and stakeholders collectively and collaboratively aim to improve research outcomes for impact.		
16.	The African Academy of Sciences (AAS) is a non-aligned, non-political, not-for-profit Pan-African organization headquartered in Nairobi, with a hosting agreement with the government of Kenya.	The AAS's vision is to see transformed lives on the African continent through science. It is the only continental Academy in Africa enjoying the support and recognition of the African Union, as well as several governments and major international partners.	AAS has a tripartite mandate: to recognize excellence through its highly prestigious fellowship and award schemes; to provide advisory and think tank functions for shaping the continent's Science, Technology and Innovation (STI) strategies and policies; and to implement key STI programmes aimed at addressing Africa's	



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Funding agencies				
S/No	Name of the Funding Agencies	Brief Description	Call for applications	Eligibility
			developmental challenges.	
17.	TWAS - The World Academy of Sciences	<p>Research Grants</p> <p>TWAS research grants are awarded to both individual scientists and research groups. TWAS research grants fund several programmes that support:</p> <ul style="list-style-type: none"> *Researchers in developing countries, allowing them to purchase specialized equipment and consumable supplies, and *Support Master of Science students. 		
Other Funding Agencies				
1.	Biological Weapons Convention (BWC) - Geneva, Switzerland	The Biological Weapons Convention (BWC) effectively prohibits the development, production, acquisition, transfer, stockpiling and use of biological and toxin weapons. It was the first multilateral disarmament treaty banning an entire category of weapons of mass destruction (WMD).	No openings currently	N/A
2.	IAEA - Vienna, Austria	The International Atomic Energy Agency is the world's central intergovernmental forum for scientific and technical co-	No openings currently	N/A



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Funding agencies				
S/No .	Name of the Funding Agencies	Brief Description	Call for applications	Eligibility
		<p>operation in the nuclear field. It works for the safe, secure and peaceful uses of nuclear science and technology, contributing to international peace and security and the United Nations' Sustainable Development Goals.</p> <p>The IAEA sustains research centres and scientific laboratories in Vienna and Seibersdorf, Austria, Monaco, and Trieste, Italy as well as regional safeguards offices in Tokyo, Japan and Toronto, Canada.</p>		
3.	IAEA – CTBTO, Austria	<p>The Provisional Technical Secretariat of the Preparatory Commission for the Comprehensive Nuclear-Test-Ban Treaty Organisation (CTBTO PrepCom) has been operational in Vienna since March 1997.</p> <p>The Comprehensive Nuclear-Test-Ban Treaty (CTBT) bans nuclear explosions on the Earth's surface, in the atmosphere, underwater and underground. It is a cornerstone of the international regime on the non-proliferation of nuclear weapons and an essential foundation for the pursuit</p>	No openings currently	N/A



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Funding agencies				
S/No .	Name of the Funding Agencies	Brief Description	Call for applications	Eligibility
		<p>of nuclear disarmament. The Treaty will enter into force after it has been ratified by 44 specific nuclear technology holder countries. Upon signing the Treaty, a state becomes a member of the Preparatory Commission. Austria has been a member of the CTBTO PrepCom since the CTBT's opening for signature on 24 September 1996.</p> <p>The Commission's main tasks are to promote the ratification of the CTBT, to carry out the necessary preparations for the entry into force of the Treaty and its effective implementation and to establish the CTBT's verification regime.</p>		
4.	FCDO – London, United Kingdom	The Foreign, Commonwealth & Development Office (FCDO) is a department of the Government of the United Kingdom. Equivalent to other countries' ministries of foreign affairs, it was created on 2 September 2020 through the merger of the Foreign & Commonwealth Office (FCO) and the Department for International	No openings currently	N/A



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Funding agencies				
S/No .	Name of the Funding Agencies	Brief Description	Call for applications	Eligibility
		Development (DFID).[2] The FCO, itself created in 1968 by the merger of the Foreign Office (FO) and the Commonwealth Office, was responsible for protecting and promoting British interests worldwide.		
5.	CSC - London, United Kingdom	<p>Commonwealth Scholarships are given to talented individuals with the potential to make a positive impact on the global stage.</p> <p>As part of the UK's ongoing commitment to the Commonwealth, each year around 800 students are given the chance to undertake postgraduate degrees with UK universities.</p> <p>This historic award is the UK's primary scholarship scheme focused on supporting British international development goals. It is designed to attract outstanding talent to UK universities whilst also supporting sustainable development overseas.</p>	No openings currently	N/A



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Funding agencies				
S/No	Name of the Funding Agencies	Brief Description	Call for applications	Eligibility
6.	UKRI - London/United Kingdom	<p>Launched in April 2018, UKRI is a non-departmental public body sponsored by the Department for Business, Energy and Industrial Strategy (BEIS).</p> <p>The organisation brings together the seven disciplinary research councils, Research England, which is responsible for supporting research and knowledge exchange at higher education institutions in England, and the UK's innovation agency, Innovate UK.</p>	https://www.ukri.org/opportunity/	Funding available for different categories.
7.	RISA	<p>The 'Research and Innovation Systems for Africa' Fund is a programme to support and strengthen research and innovation systems in six countries: Ghana, Kenya, Nigeria, Rwanda, South Africa, and Ethiopia. The programme runs from 2021 to 2024 and is funded by UKAid.</p> <p>The RISA mission is to provide grants to fund homegrown solutions to the continent's toughest challenges.</p>	No openings currently	N/A
8.	DAAD - Berlin, Germany	The DAAD is the world's largest funding organisation for the international exchange of students and researchers.	No openings currently	N/A



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Funding agencies				
S/No .	Name of the Funding Agencies	Brief Description	Call for applications	Eligibility
		Since it was founded in 1925, around 2.8 million scholars in Germany and abroad have received DAAD funding. It is a registered association and its members are German institutions of higher education and student bodies. Its activities go far beyond simply awarding grants and scholarships. The DAAD supports the internationalisation of German universities, promotes German studies and the German language abroad, assists developing countries in establishing effective universities and advises decision makers on matters of cultural, education and development policy.		
9.	UNESCO - Nairobi and Paris, France	UNESCO is the United Nations Educational, Scientific and Cultural Organization. It contributes to peace and security by promoting international cooperation in education, sciences, culture, communication and information. UNESCO promotes knowledge sharing and the free flow of ideas to accelerate mutual understanding and a more perfect knowledge of each other's lives.	No openings currently	N/A



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Funding agencies				
S/No	Name of the Funding Agencies	Brief Description	Call for applications	Eligibility
		UNESCO's programmes contribute to the achievement of the Sustainable Development Goals defined in the 2030 Agenda, adopted by the UN General Assembly in 2015.		
10.	EDCTP - European Union	EDCTP is an EU-funded partnership between institutions mandated by the governments of 15 European and 21 African countries. Launched in 2003 and renewed in 2014 with funding through to 2024, EDCTP has been the focal point for EU support for global health research in Africa, and a visible sign of the EU's commitment to the Millennium Development Goals and more recently the Sustainable Development Goals. Through its evolution, EDCTP has been driven by the infectious disease priorities of sub-Saharan Africa and the need to develop African countries' capacity to collectively address these priorities into the future.	No openings currently	N/A
11.	AERC	Established in 1988, African Economic Research Consortium (AERC) has grown to be a premier capacity building institution for the advancement of	https://aercafrica.org/call-for-proposals/	https://aercafrica.org/wp-content/uploads/2023/01/Call-for-Collaborative-Research-Proposals-PASHFARM.pdf https://aercafrica.org/wp-content/uploads/2022/12/Call-for-



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Funding agencies				
S/No .	Name of the Funding Agencies	Brief Description	Call for applications	Eligibility
		<p>research and graduate training to inform economic policies in Africa. The consortium’s mandate and strategic mission is built on the basis that sustained development in sub-Saharan Africa requires well trained, locally based professional economists. A highly integrated knowledge organization spanning research, training, and policy outreach, AERC is now a vast network of universities, policy makers, researchers, educators, and international resource persons.</p>		<p>Application-for-PhD-Thesis-Research-on-Human-Capital-Development-Grant-Support-2023.pdf</p> <p>https://aercafrica.org/wp-content/uploads/2023/01/eca-fellowship-advert-for-2023.pdf</p> <p>https://aercafrica.org/wp-content/uploads/2023/01/Call-for-Country-Case-Study-and-Faculty-Research-Proposals-PASHFARM.pdf</p>