



Status of RPE funded projects as at March 2016

S/ no	Ref. No.	Project Title	Principal Investigator	Gender	Dept.	Year funded	Approved funding (Ksh)	Status
1.		Modeling the influence of land use changes on soil erosion and dam siltation in Thika River catchment	F. K. Kigira/ BEED	M	BEED	2005	90,000.00	Completed
2.		The use of Satellite Remote Sensing (SRS) and Geographic Information Systems (GIS) to map the trend of spread of invasive tree species, Prosopis ssp.	M. K. Muuo/ BEED	M	BEED	2005	133,220.00	Completed
3.		Study and improvement of alcoholic beverage (Mnazi).	T. Kadere/ FST	M	FST	2005	631,000.00	Completed
4.		Application of GIS-based models for water resources management in Kaiti watershed	S. K. Ng'ang'a /BEED	M	BEED	2005	150,000.00	Completed
5.		Development of solar charcoal cooler for storage of far produce in marginal areas of Kenya	J. T. Makanga /BEED	M	BEED	2005	1,014,468.00	Completed
6.		Social economic impact of unemployed agricultural extension workers: A case study of Thika district in Kenya	K. Mwikamba /RPE	M	RPE	2005	600,000.00	Completed
7.		Screening and analysis of herbal plants traditionally used in Helminth parasite control in ruminants: a case study of Embu and Mbeere districts in Eastern Province.	P. G. Kareru / Chem	M	Chemistry	2006	400,000.00	Completed
8.		Epidemiological survey and control strategies of gastrointestinal nematode (GIN) of cattle in Kirinyaga District.	F. K. Njonge / RPE	M	RPE	2006	600,000.00	Completed
9.		Gravity and magnetic investigations of greater Magadi area	J. G. Githiri / Botany	M	Botany	2006	150,000.00	Completed
10.		Design of solar cells for charging cell phones and other low power electronic devices	D. Mulati/ Physic	M	Physics	2006	2,833,440.00	Completed
11.		Evaluation of 1-methyl cyclo-propene as a tool for extending the post-harvest storage life and quality of mangoes and tissue culture bananas	F. Mathooko /FST	M	FST	2006	4,500,000.00	Completed

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	Completed		Terminated
	Ongoing		Stalled



12.		On the spectra of triangular and almost triangular matrices as operators on bvo, by and c spaces.	J. R. Akanga / Physic	M	Physics	2006	600,000.00	Completed
13.		Optimization of cultural practices of field grown small holder summer flowers in Kenya: studies of mobydick	A. Watako / Hort	M	Horticulture	2006	800,585.00	Completed
14.		Screening of Medicinal plants for the activity against human ineffective trypanosomes	E. Magiri/ Biochem	F	Biochemistr y	2006	488,290.00	Completed
15.		Field evaluation of seeds of somaclonal variants in search of salinity tolerant sorghum (Sorghum biolar (L) Moench) for growth in arid and semi-arid regions (ASAL)	M. Makobe/ Botany	F	Botany	2006	835,800.00	Completed
16.		Effect of nitrogen fertilizer on thrips population dynamics and their management using Entomopathogenic Nematodes and Anthocirc predators on French beans in Kenya.	L. Gitonga / Zoology	M	Zoology	2006	1,254,600.00	Completed
17.		Evaluation, documentation of indigenous plants used in processing and preservation of the livestock products amongst the pastoral communities in Kenya	C. A. Onyango/ FST	F	FST	2007	942,040.00	Completed
18.		Aquaculture Dynamics in selected Reservoirs of Kenyan Highlands and its effects from Feeder Streams.	E. C. Mwachiro / Zoology	M	Zoology	2007	1,291,975.00	Completed
19.		Isolation of antibiotic and enzyme producing bacteria from termite guts	H. Boga/ Botany	M	Botany	2007 (3yrs)	3,206,000.00	Completed
20.		Calibration of lime requirement tests for acid soils of Kenya through maize yield and development of a quick liming test kit-intermediate and appropriate technological innovations for enhanced food security.	E. Njue/ Hort	M	Horticulture	2007 (3yrs)	2,919,120.00	Completed
21.		Commercial and industrial development of papaya (Carica papaya L.): varietal improvement, production and processing technologies for wealth creation in rural areas	F. K. Wanzala / Hort	F	Horticulture	2008 (3yrs)	3,800,000.00	Completed
22.		Diversity and pesticide-Biodegradation potential of microorganisms in horticultural farms in Rift Valley and Central Kenya	G. Magoma /Biochem	M	Biochemistr y	2008	1,881,000.00	Completed

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23.		Enhancing travelers' safety and comfort: planning of rest stops on Kenyan highways	M. Kiambigi / Const. Mngt	M	Construction Mgt.	2008	1,463,000.00	Completed
24.		Antischistosomal activity of medicinal plants from Kakamega in laboratory mice infected with <i>Schistosoma mansoni</i> .	H. L. Kutima / Zoology	F	Zoology	2008	1,084,750.00	Completed
25.		Characterization of three plasmodium falciparum proteins, P. falciparum glycogen synthetase – 3 (PfGSK – 3), P. falciparum casein kinase 1 (PfCK- 1) and P. falciparum 14-3-3 (Pf 14-3-3) and the response of Pf GSK -3, PfCK1, PfMRK and PfPK6 to various flavanoids	M. Imbuga / Biochem	F	Biochemistry	2008 (3 yrs)	3,027,980.00	Completed
26.		Towards improvement of entrepreneurship education at Kenyan universities	H. Bwisa / SHRD	M	SHRD	2009	1,580,250.00	Completed
27.		Improving basmati rice quality and production through Physico-chemical and molecular characterization	E. Magiri / Biochem	F	Biochemistry	2009 (3 yrs)	1,198,875.00	Completed
28.		Assessment of Water use Efficiency of Slender leaf (<i>Crotalaria ochroleuca</i>) for food, nutrition and health security in Kenya	M. Onyango / Hort	F	Horticulture	2009 (3 yrs)	4,500,000.00	Completed
29.		Field evaluation of seeds of somaclonal variants in search of salinity tolerant sorghum (<i>Sorghum biolar</i> (L) Moench) for growth in arid and semi-arid regions (ASAL)	M. Makobe / Botany	F	Botany	2009 (3 yrs)	800,000.00	Completed
30.		Soil fertility assessment in tea growing area of Ngere tea factory, Thika District	J. K. Kinyua/ Biochem	M	Biochemistry	2009 (3 yrs)	200,000.00	Completed
31.		Development of nano structured smart delivery systems for fertilizer and pesticides	E. Gatebe / Chem	M	Chemistry	2010 (3 yrs)	4,500,000.00	Completed
32.		Development of micro satellite DNA markers for application of wildlife forensics in Kenya	Julius Kinuthia / IBR	M	IBR	2011 (3 yrs)	4,000,000.00	Completed
33.		Factors influencing borrowing from the informal financial sector	W. M. Muturi (SHRD)	M	SHRD	2012 (1 yr)	1,390,800.00	Completed

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34.	JKU/2/4/136	Transformation of maize with efficient phosphorus genes for increased grain yield and striga hermonthiga suppression.	Dr. A. E. Alakonya (IBR)	M	IBR	2012 (3 yrs)	4,490,000.00	Completed
35.	JKU/2/4/RP/181	Characterization of indigenous poultry and wild relative from different agro ecological zones in Kenya towards genetic improvement.	Sheila C. Ommeh (IBR)	F	IBR	2013 (3 yrs.)	4,490,000.00	Completed
36.		Yellow Oleander project	J. Keriko/ Chem	M	Chemistry	2005 University Pilot Project	6,000,000.00	Ongoing
37.		Determination of the lipid contents, Fatty acids composition, the levels of EPA and DHA in some common fish species found in Kenyan waters.	J. Keriko /Chem	M	Chemistry	2005	4,020,115.00	Ongoing
38.		Development and evaluation of anti-aging cosmetic product derived from plants and ruminant oil extracts	J. Keriko /Chem	M	Chemistry	2006	706,029.50	Ongoing
39.		Prospecting for a biofertilizer in banana endophytic bacteria	V. N. Matiru/ Botany	F	Botany	2007 (3yrs)	4,230,000.00	Ongoing
40.		Propagation, Molecular Characterization and Ethnobotanical Survey of <i>Strychnos henningsii</i>	V. W. Ngumi / Botany	F	Botany	2007 (3yrs)	1,507,000.00	Ongoing
41.		Formulation of innovative processing technology for herbal medicine and fabrication of allied equipment	C. K. Njoroge / FST (Dr. Kareru in charge)	M	FST	2008 (3 yrs)	2,583,500.00	Ongoing
42.		Marketing of Eggs in Kenya: An Investigation into Price Interrelationships between the City of Nairobi and other Major Urban Centers.	F. Njeruh / APD	M	APD	2008 (3 yrs)	4,500,000.00	Ongoing
43.		Evaluation of capillary wicks for use in irrigation for intensive horticultural crop production in Kenya.	J. M. Wesonga /Hort	M	Horticulture	2008 (3 yrs)	1,788,888.00	Ongoing
44.		In search of Biomarkers for Diagnosis and Staging of Human African Trypanosomiasis	N. Maina / Biochem	F	Biochemistry	2009 (3 yrs)	2,601,600.00	Ongoing

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45.		Toxicological characterization of snake venom from snake parks in Kenya with a view to development of an effective antivenin	J. K. Gikunju / ITROMID	M	ITROMID	2009 (3 yrs)	2,000,000.00	Ongoing
46.		Environmentally cleaner utilization of cashew nut shell liquid (CNSL) as an industrial raw material	P. Mwangi / Chem	M	Chemistry	2009 (3 yrs)	3,182,306.00	Ongoing
47.		Socio-economic effect of HIV/AIDS on households and its impact on nutrition of people living with HIV/AIDS and orphaned and vulnerable children in Thika district, Kenya	Z. W. Nganga / ITROMID	F	ITROMID	2009 (3 yrs)	3,200,000.00	Ongoing (PI left JKUAT)
48.		Developing a method for setting long term targets of annual construction output in Kenya	K. Mbiti / Constr. Mngt	M	Construction Mgt.	2009	2,524,277.00	Ongoing
49.		Studies on growth and flower quality of Mobydick (<i>Gomphocarpus fruticosa</i>)	A. Watako / Hort	M	Horticulture	2010 (3 yrs)	1,625,550.00	New-2 nd Phase funding Ongoing (PI left JKUAT)
50.		Rice blast (<i>Magnaporthe grisea</i>) Herbert infectivity dynamics in the Kenyan rice germplasm	E. Ateka / Hort	M	Horticulture	2010 (3 yrs)	4,500,000.00	Ongoing
51.		Soil fertility assessment in tea growing areas of Kenya: Working towards tea fertilizers	J. K. Kinyua / Biochem	M	Biochemistry	2010 (3 yrs)	3,590,000.00	Ongoing--2 nd Phase Ongoing
52.		Modification of the fatty acid profiles of farmed tilapia and catfish for improved health and livelihood in Kenya	Arnold N. Onyango/ FST	M	FST	2011 (3 yrs)	4,000,000.00	Ongoing
53.		Screening <i>Bacillus</i> species from <i>Rastrineobola argentea</i> (omena) for production of bacteriocins active against bovine mastitis pathogens	Gideon M. Kikivi / MLS	M	MLS	2011 (2 yrs)	1,600,000.00	Ongoing
54.		Epidemiology and clinical characterization of toxoplasmosis in animals and humans: The case for Thika District	Simon M. Karanja / ITROMID	M	ITROMID	2011 (3 yrs)	3,500,000.00	Ongoing

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55.		Improvement in mango production and value addition: Towards increased marketing, food sustainability and security	Daniel N. Sila / FST	M	FST	2011 (3 yrs)	4,000,000.00	Ongoing
56.		Nutritional evaluation of selected Kenyan seaweeds as potential feed ingredients for farmed Nile tilapia (<i>Oreochromis niloticus L.</i>) in semi-intensive pond systems.	Dr. J. Wakibia (Botany) Prof G. M. Kenji Dr. J. Munguti	M	Botany	2012 (3 yrs)	4,499,000.00	Ongoing
57.		Documentation and analysis of historic buildings in Nairobi.	Dr. G. Munala (Const. Management)	M	Construction Mgt.	2012 (3 yrs)	4,461,795.00	Ongoing
58.		Characterization and functional analysis of tricorn protease from <i>Trypanosoma brucei brucei</i> .	Dr. P. Lomo (Biochemistry) Deceased Taken up by Dr. Nyanjom	M	Biochemistry	2012 (3 yrs)	4,500,000.00	Ongoing
59.		Exploring natural ways to exceptional long healthspan – the naked mole-rat case	Prof. A. N. Muigai (Botany) Dr S. M. Muya. Dr M. Platzer. Dr. T. B. Hildebrandt K. Szafranski	F	Botany	2012 (1 yrs)	1,639,325.64	Ongoing
60.		Establishment of absolute gravity stations at referenced to IGSN 71 datum levels at county levels in Kenya	Dr. J. G. Githiri (Physics)	M	Physics	2012 (2 yrs)	1,552,100.00	Ongoing
61.		Analysis and Assessment of potential pesticides residues in Tomatoes and tomato products in Kenya	Dr. L. Gitu (Chemistry) Mr. D. Mungai Dr. E. Gatebe	M	Chemistry	2012 (3 yrs)	3,588,200.00	Ongoing

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62.		Development and implementation of the Rhinoceros DNA Index Register (rhodir) database as a tool to protect and manage the Kenyan Rhinoceros	Dr. S. M. Muya (Zoology) Prof A. W. Muigai. Dr. C. Harper. Dr. F. Gakuya. Dr. R. W. Mwangi	M	Zoology	2012 (3 yrs)	4,692,578.10	Ongoing
63.		Climate change impacts on distribution and abundance of wildlife species in the Mara Ecosystem: An analytical approach using GIS	Dr. M. M. Ngigi (GEGIS) Dr. C. N. Mundia	M	GEGIS	2012 (2 yrs)	1,920,000.00	Ongoing (PI left JKUAT)
64.		Climate change and food security: Capturing impacts of climate change mitigation measures in forecasting and crop disease control	Dr. C. N. Mundia (GEGIS) Dr. D. N. Kuria Dr. W.O. Owino	M	GEGIS	2012 (3 yrs)	4,385,000.00	Ongoing
65.		Chemical synthesis and antimalarial evaluation of hybrid drugs using artemisins, quinolines, anilines and cyclopentanediol pharmacophores as scaffolds.	Dr. J. K. Ng'ang'a (Biochemistry)	M	Biochemistry	2012 (3 yrs)	4,290,000.00	Ongoing
66.		Developing sustainable solutions to the challenge of value addition in the seafood supply chain along the Kenyan coast.	Dr. Fred M. Mwirigi (JKUAT Mombasa Campus)	M	JKUAT Mombasa Campus	2012 (1½ yrs)	1,580,250.00	Ongoing
67.		PANCAKE (Portal for Free and Appropriate Computer Science Research Resources for Kenyans).	S. Kimani (ICT)	M	ICT	2012 (2.5 yrs)	2,317,500.00	Proposal approved in 2008 but never

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								started. Resumption of funding in 2012
68.		Marketing of eggs in Kenya: an investigation into price interrelationships between the city of Nairobi and other major urban centres	Prof. F. Njeru (APD)	M	APD	2012 (1 yr)	1,500,000.00	Refinancing of project
69.	JKU/2/4/140	Evaluating nutritional value of moringa oleifera in the management of asymptomatic HIV/AIDS patients.	Dr. F. K. Njonge (Land Resources)	M	Land Resource	2012 (3 yrs)	4,500,000.00	Ongoing
70.	JKU/2/4/148	Genetic profiling of rapists	Prof. M. Mutugi (Zoology) <u>Collaborators</u> Dr K. Ogila. Dr S. Muya. Ms S. Mukwana. Dr S. Thenya. Mr M. Gathenji	F	Zoology	2012 (3 yrs)	4,500,000.00	Ongoing
71.	JKU/2/4/RP/183	Reservoir survey using multi frequency acoustic profiling system for sustainable watershed management and development	Mr. Joseph K. Sang (BEED)	M	BEED	2013 (3 yrs.)	4,497,048.00	Ongoing
72.	JKU/2/4/RP/179	Investigating maize farmers information gaps across the crop cycle in order to develop an appropriate ICT solution	Prof. Waweru Mwangi (ICSIT)	M	ICSIT	2013 (3 yrs.)	4,500,000.00	Ongoing
73.	JKU/2/4/RP/186	Noise pollution in Nairobi: sources, effects and control.	Prof. C. Kanali (BEED)	M	BEED	2013 (1 yr.)	1,481,800.00	Ongoing
74.	JKU/2/4/RP/189	Towards a policy on clustering as a county industrialization strategy to accelerate the sustainable achievement of Vision 2030: A case study of Bungoma Country.	Prof. H. Bwisa (SHRD)	M	SHRD	2013 (3 yrs.)	4,500,000.00	Ongoing
75.	JKU/2/4/RP/187	Appropriate materials to stabilize expansive clay for low cost urban roads construction: Enterprise Road, Nairobi case study.	Prof. W. Kaluli (BEED)	M	BEED	2013 (1 yr.)	1,164,625.00	Ongoing

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			C. Kabubo					
76.	JKU/2/4/RP/171	Rehabilitation of post-quarried sites as a function of management regime, landscape bio-geophysical variables and visual preference of emerging habitats.	Dr. John Bosco Njoroge (Horticulture) M. E. Onyango P. K. Wahome	M	Horticulture	2013 (3 yrs.)	4,492,160.00	Ongoing
77.	JKU/2/4/RP/158	The conditional pricing of currency and inflation risks in Africa equity Markets	Odongo Kondongo (Commerce & Economics studies)	M	Commerce & Economics	2013 (2 yrs.)	2,300,000.00	Ongoing
78.	JKU/2/4/RP/198	Prospecting for bio - active potential of endophytes associated with medicinal forest trees in Kenya, and their efficacy against pathogenic fungal pathogens	Dr. Wanjiru Wanyoike	F	Botany	2014	2,907,000.00	Ongoing
79.	JKU/2/4/RP/195	Improvement of dairy goats' health through control gastrointestinal nematodes by utilization <i>FAMACHA</i> ® system & urea molasses blocks supplemented with pineapple by-products.	Dr. John Kagira	M	Land Resource	2014	4,499,220.00	Ongoing
80.	JKU/2/4/RP/191	Experimental validation of <i>Glossina morsitans morsitans</i> Odorant Receptors	Dr. Fred Wamunyokoli	M	Biochemistry	2014	4,500,000.00	Ongoing
81.	JKU/2/4/RP/190	Analysis of genetic diversity within & among indigenous & imported rabbit breeds in Kenya	Dr. Remmy Kasili	M	IBR	2014	4,500,000.00	Ongoing
82.	JKU/2/4/RP/196	Development of recycle friendly aluminium alloys for automotive & structural applications	Mr. Bruno Roberts Mose	M	Mechanical Eng	2014	4,500,000.00	Ongoing
83.	JKU/2/4/RP/193	To evaluate small nerve fibres as biomarkers for the semi-invasive diagnosis of endometriosis.	Dr. Mutinda C. Kyama	M	MLS	2014	4,500,000.00	Ongoing

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84.	JKU/2/4/RP/197	The effect of infra-red blocking films on the growth, yield & quality of paprika (<i>Capsicum annum</i> L)	Dr. Patrick O. Ajwang	M	BEED	2014	3,931,200.00	Ongoing
85.	JKU/2/4/RP/194	Studies on the availability, propagation, biochemistry of plant based anal cleansing materials for manufacture of affordable toilet paper for rural & poor urban Kenya	Prof. Patrick G. Home	M	BEED	2014	4,500,000.00	Ongoing
86.	JKU/2/4/RP/192	Groundwater mapping, quality assessment & hydrogeophysical modelling in Makueni County, Eastern Kenya.	Mr. S. Kibe Ng'ang'a	M	Civil Eng	2014	1,495,754.00	Ongoing
87.		Controlling Rift Valley Fever Virus Using RNA Silencing	J. R. Ongus / MLS	F	MLS	2008 (3 yrs)	4,500,000.00	Terminated
88.		Health Information Technology in Kenya. A simulated model for computer aided home based health system	C. Mwabu /ICT	M	ICT	2009 (3 yrs)	143,875.00	Terminated
89.		Medicinal plants project	G. Njoroge/ Botany	F	Botany	2005 Univer sity Pilot Project	2,080,000.00	Stalled.
90.		High Value Crop Project	A. Muigai / Botany	F	Botany	2005	200,000.00	Stalled.
91.		Utilization of natural products from tropical plants biodiversity in the control of HIV-1 infection	E. B. Oluoch / IEET	M	IEET	2006	600,000.00	Stalled
92.		Simulating and modeling of the growth of M-commerce in Kenya due to mobile phone usage. A systems dynamics approach	Isaac K. Mwangi (SHRD) Dr. J.M. Wafula	M	SHRD	2012 (1yr)	101,800.00	Funding approved subject to submission of revised proposal. Revised proposal never submitted (Never started)

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93.		Towards achieving vision 2030: production of 3D digital topographical / thematic maps of Kenya	Dr. T. Ngigi (GEGIS)	M	GEGIS	2012 (3 yrs)	2,726,490.00	Stalled (because of challenges of procuring some equipment)
94.		Protected cultivation: using light filtration to control pests and diseases for sustainable greenhouse vegetable production in Kenya	Dr. U. N. Mutwiwa (BEED)	M	BEED	2012 (2 yrs)	4,493,300.00	Funding approved subject to submission of revised proposal. Revised proposal never submitted (never started)

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- Stalled