

TABLE 1: RESEARCH AND PRIORITY AREAS

No.	RESEARCH AREAS	PRIORITY AREAS					
1	• ENGINEERING SCIENCES	1	Cutting tool technology	19	Oceanography Instrumentation		
		2	Design for Manufacturing and Assembly		20	Other Advancement of Marine Sciences Knowledge/Alternative energy Sources from the sea	
		3	Flexible Manufacturing Systems		21	Sea Level Changes	
		4	Metrology SN: Including Instrumentation Manufacturing such as Metrological Instrument		22	Seismology/Earthquake	
		5	Machining		23	Solar Energy Technology	
		6	Laser machining		24	Storm Water Management	
		7	Rapid prototyping and tooling		25	Tsunami	
		8	Robotics and Mechatronics		26	Water Resources Management (Technology development for supplying clean water for rural communities)	
2	• ADVANCED MATERIALS SCIENCES • CHEMICAL SCIENCES • ENGINEERING SCIENCES	1	Biosensors	7	• ENGINEERING SCIENCES • COMPUTER SCIENCES & ICT • PHYSICAL AND MATHEMATICAL SCIENCES	27	Wind
		2	Building and Construction Materials			1	Advance and Emerging Methods SN: Forecasting
		3	Fine Chemicals			2	Antenna Technology (mitigation.)
		4	Green material			3	Biometrics Security System
		5	Medical devices			4	Broadband Communication
		6	Microsphere technology			5	Cloud Computing
		7	Nano Materials			6	Digital Image processing System (Pattern recognition UAV platform development
		8	Nano particle			7	Digital Signal Processing
		9	Nano photonic			8	Earth Observation System/Ground and Space Station
		10	Nanoelectronics			9	Equipments SN/RFID
		11	Nanotube			10	Firewalls
		12	Other Nanotechnology			11	Grid Computing
		13	Quantum device			12	Intrusion Prevention System
		14	Smart Materials			13	Malware, Worms and Viruses
3	• ENGINEERING SCIENCES • PHYSICAL AND MATHEMATICAL SCIENCES	1	Accelerator technology	14	Micro Electro Mechanical System (MEMS)		
		2	Ionising Radiation Technology	15	Mobile Network Technologies		
		3	Non-Destructive Testing	16	Other Communications n.e.c.SN: Secured Communication System		
		4	Non-ionising Radiation Technology	17	Pattern Recognition and Image Recognition/Imaging Processing and Computer Vision		
		5	Radiation Technology	18	Processor Design, Geographic Information System.		
		6	Reactor Technology	19	Quantum Computing		
4	• LIFE SCIENCES • AGRICULTURE SCIENCES • ENGINEERING SCIENCES	1	Animal Biotechnology	20	Radio Frequency Design (RF) Front-End		
		2	Animal Reproduction Biotechnology	21	Remote sensing and related technology		
		3	Biofeed	22	Rocketry		
		4	Bioinformatics	23	Safety Critical Software		
		5	Bioprocessing	24	Satellite and Spacecraft System		
		6	Biosafety(Food)	25	Satellite Communication Services (Bus).		
		7	Cell Culture Technology	26	Security Protocols		
		8	Diagnostic Kits	27	Security Services SN: Network Security		
		9	Enzyme Technology	28	Semantic technology		
		10	Feed and Nutrition	29	Space sciences especially on Micro gravity experiments Astronomy & Astrophysics		
		11	Fermentation	30	Wireless Devices/Wireless Communication and Technologies		
		12	Functional Food				
		13	Genomics				
		14	Livestock Reproduction				
		15	Microbial technology				
		16	Product Recovery				
		17	Risk Assessment				
		18	Risk Management				
		19	Transgenic Plant: Rice, Papaya, Banana and Pineapple, Grain Maize				
		20	Vaccine Development				
5	• MEDICAL AND HEALTH SCIENCES	1	Biopharmaceuticals	8	• SOCIAL SCIENCES AND HUMANITIES	1	Community Development
		2	Obesity			2	Environmental Economics
		3	Nutraceuticals			3	Gender Studies
		4	Drug Discovery			4	Gerontology
		5	Oncology			5	Policy studies
		6	Endocrinology			6	Tourism Studies
		7	Therapeutics			7	Transportation Economics
		8	Cardiology				
		9	Respiratory Diseases				
		10	Infectious/Communicable Diseases				
		11	Gastroenterology				
6	• ENVIRONMENTAL SCIENCES/ ENGINEERING SCIENCES	1	Bio-Gas and Bio-Fuel				
		2	Biomass Energy Technology e.g. Refuse-derived Fuel (RDF)				
		3	Climatology				
		4	Coastal Oceanography and Processes				
		5	Disaster Management				
		6	El Niño Southern Oscillation (ENSO)				
		7	Fisheries Oceanography				
		8	Hydro Power Technology				
		9	Hydroinformatics /and Oceanographic Data Management				
		10	Land-Sea Interactions and Processes /Ocean-atmosphere interaction				
		11	Marine Biodiversity, Conservation and Management				
		12	Marine Ecology				
		13	Marine Geology				
		14	Marine Pollution				
		15	Marine Products Biotechnology				
		16	Meteorological Oceanography /Natural marine hazards				
		17	Meteorology				
		18	Monsoon System				