

CRDF Global Research Areas

Research Areas	Sub-Research Areas	Research Focuses
1. Natural Sciences	1.1 Mathematics	1.1.1 Pure Mathematics 1.1.2 Applied Mathematics 1.1.3 Statistics and Probability
	1.2 Computer and Information Sciences	1.2.1 Computer Sciences 1.2.2 Information Science and Bioinformatics
	1.3 Physical Sciences	1.3.1 Atomic, Molecular and Chemical Physics 1.3.2 Condensed Matter Physics (including solid state physics superconductivity) 1.3.3 Particles and Fields Physics 1.3.4 Nuclear physics 1.3.5 Fluids and Plasma Physics (including surface physics) 1.3.6 Optics (including laser optics and quantum optics) 1.3.7 Acoustics 1.3.8 Astronomy (including astrophysics, space science)
	1.4 Chemical Sciences	1.4.1 Organic Chemistry 1.4.2 Inorganic and Nuclear Chemistry 1.4.3 Physical Chemistry 1.4.4 Polymer Science 1.4.5 Electrochemistry (dry cells, batteries, corrosion metals, electrolysis) 1.4.6 Colloid Chemistry 1.4.7 Analytical Chemistry
	1.5 Earth and Related Environmental Sciences	1.5.1 Geosciences, Multidisciplinary 1.5.2 Mineralogy 1.5.3 Paleontology 1.5.4 Geochemistry and Geophysics 1.5.5 Physical Geography 1.5.6 Geology 1.5.7 Volcanology 1.5.8 Environmental Sciences 1.5.9 Meteorology and Atmospheric Sciences 1.5.10 Climatic Research 1.5.11 Oceanography 1.5.12 Hydrology 1.5.13 Water Resources
	1.6 Biological Sciences	1.6.1 Cell Biology 1.6.2 Microbiology 1.6.3 Virology 1.6.4 Biochemistry and Molecular Biology 1.6.5 Biochemical Research Methods 1.6.6 Mycology 1.6.7 Biophysics 1.6.8 Genetics and Heredity 1.6.9 Reproductive Biology 1.6.10 Developmental Biology

1. Natural Sciences	1.6 Biological Sciences	1.6.11 Plant sciences 1.6.12 Botany 1.6.13 Zoology 1.6.14 Ornithology 1.6.15 Entomology 1.6.16 Behavioral Sciences Biology 1.6.17 Marine Biology 1.6.18 Freshwater Biology 1.6.19 Immunology 1.6.20 Ecology 1.6.21 Biodiversity Conservation 1.6.22 Biology (theoretical, mathematical, thermal, cryobiology, biological rhythm) 1.6.23 Evolutionary Biology 1.6.24 Other Biological Topics
	1.7 Other Natural Sciences	1.7.1 Other Natural Sciences
2. Engineering and Technology	2.1 Civil Engineering	2.1.1 Civil Engineering 2.1.2 Architecture Engineering 2.1.3 Construction Engineering 2.1.4 Municipal and Structural Engineering 2.1.5 Transport Engineering
	2.2 Electrical, Electronic, and Information Engineering	2.2.1 Electrical and Electronic Engineering 2.2.2 Robotics and Automatic Control 2.2.3 Automation and Control Systems 2.2.4 Communication Engineering and Systems 2.2.5 Telecommunications 2.2.6 Computer Hardware and Architecture
	2.3 Mechanical Engineering	2.3.1 Mechanical Engineering 2.3.2 Applied Mechanics 2.3.3 Thermodynamics 2.3.4 Aerospace Engineering 2.3.5 Nuclear Related Engineering 2.3.6 Audio Engineering 2.3.7 Reliability Analysis
	2.4 Chemical Engineering	2.4.1 Chemical Engineering (Plants, Products) 2.4.2 Chemical Process Engineering
	2.5 Materials Engineering	2.5.1 Materials Engineering 2.5.2 Ceramics 2.5.3 Coating and Films 2.5.4 Composites 2.5.5 Paper and Wood 2.5.6 Textiles
	2.6 Medical Engineering	2.6.1 Medical Engineering 2.6.2 Medical Laboratory Technology
	2.7 Environmental Engineering	2.7.1 Environmental and Geological Engineering 2.7.2 Geotechnics

2. Engineering and Technology	2.7 Environmental Engineering	2.7.3 Petroleum Engineering, (Fuel, Oils) 2.7.4 Energy and Fuels 2.7.5 Remote Sensing 2.7.6 Mining and Mineral Processing 2.7.7 Marine Engineering 2.7.8 Ocean Engineering
	2.8 Environmental Biotechnology	2.8.1 Environmental Biotechnology 2.8.2 Bioremediation 2.8.3 Diagnostic Biotechnologies (DNA chips and Biosensing Devices) 2.8.4 Environmental Biotechnology Related Ethics
	2.9 Industrial Biotechnology	2.9.1 Bioprocessing Technologies 2.9.2 Biocatalysis, Fermentation 2.9.3 Bioplastics 2.9.4 Biofuels 2.9.5 Bio-derived Bulk and Fine Chemicals 2.9.6 Bio-derived Novel Materials
	2.10 Nano Technology	2.10.1 Nano-materials (Production and Properties) 2.10.2 Non-processes (Applications on nano-scale)
	2.11 Other Engineering and Technology	2.11.1 Food and Beverages 2.11.2 Other Engineering and Technologies
3. Medical and Health Sciences	3.1 Basic Medicine	3.1.1 Anatomy and Morphology 3.1.2 Human Genetics 3.1.3 Immunology 3.1.4 Neurosciences (Including Psychophysiology) 3.1.5 Pharmacology and Pharmacy 3.1.6 Medicinal Chemistry 3.1.7 Toxicology 3.1.8 Physiology (Including Cytology) 3.1.9 Pathology
	3.2 Clinical Medicine	3.2.1 Andrology 3.2.2 Obstetrics and Gynecology 3.2.3 Pediatrics 3.2.4 Cardiac and Cardiovascular systems 3.2.5 Peripheral vascular disease 3.2.6 Hematology 3.2.7 Respiratory systems 3.2.8 Critical Care Medicine and Emergency Medicine 3.2.9 Anesthesiology 3.2.10 Orthopedics 3.2.11 Surgery 3.2.12 Radiology, Nuclear Medicine and Medical Imaging 3.2.13 Transplantation 3.2.14 Dentistry, Oral Surgery and Medicine 3.2.15 Dermatology 3.2.16 Allergy

3. Medical and Health Sciences	3.2 Clinical Medicine	<p>3.2.17 Endocrinology and Metabolism (Including Diabetes, Hormones)</p> <p>3.2.18 Urology</p> <p>3.2.19 Oncology</p> <p>3.2.20 Ophthalmology</p> <p>3.2.21 Psychiatry</p> <p>3.2.22 Clinical Neurology</p> <p>3.2.23 Geriatrics and Gerontology</p> <p>3.2.24 General and Internal Medicine</p> <p>3.2.25 Integrative and Complementary Medicine</p> <p>3.2.26 Other Clinical Medicine Subjects</p>
	3.3 Health Sciences	<p>3.3.1 Health Care Sciences and Services</p> <p>3.3.2 Health Policy and Services</p> <p>3.3.3 Nursing</p> <p>3.3.4 Nutrition</p> <p>3.3.5 Dietetics</p> <p>3.3.6 Public and Environmental Health</p> <p>3.3.7 Tropical Medicine</p> <p>3.3.8 Parasitology</p> <p>3.3.9 Infectious Diseases</p> <p>3.3.10 Epidemiology</p> <p>3.3.11 Occupational health</p> <p>3.3.12 Sport and Fitness Sciences</p> <p>3.3.13 Social biomedical sciences</p> <p>3.3.14 Medical ethics</p> <p>3.3.15 Substance abuse</p>
	3.4 Medical Biotechnology	<p>3.4.1 Health-Related Biotechnology</p> <p>3.4.2 Technologies Involving Manipulation of Cells, Tissues, Organs or Organism</p> <p>3.4.3 Gene-Based Diagnostics and Therapeutic Interventions</p> <p>3.4.4 Biomaterials (Implants, Devices, Sensors)</p> <p>3.4.5 Medical Biotechnology Related Ethics</p>
	3.5 Other Medical Sciences	<p>3.5.1 Forensic Science</p> <p>3.5.2 Other Medical Sciences</p>
	4. Agricultural Sciences	4.1 Agriculture, Forestry, and Fisheries
	4.2 Animal and Dairy science	<p>4.2.1 Animal and Dairy Science</p> <p>4.2.2 Husbandry</p> <p>4.2.3 Pets</p>
	4.3 Veterinary science	4.3.1 Veterinary Science

4. Agricultural Sciences	4.4 Agricultural biotechnology	4.4.1 Agricultural Biotechnology and Food Biotechnology
		4.4.2 GM technology (Crops and Livestock) 4.4.3 Livestock Cloning 4.4.4 Biomass Feedstock Production Technologies 4.4.5 Biopharming 4.4.6 Agricultural Biotechnology Related Ethics
	4.5 Other agricultural sciences	4.5.1 Other Agricultural Sciences
5. Social Sciences	5.1 Psychology	5.1.1 Psychology (Including Human - Machine Relations) 5.1.2 Psychology, Special
	5.2 Economies and Business	5.2.1 Economics 5.2.2 Econometrics 5.2.3 Industrial Relations 5.2.4 Business and Management
	5.3 Educational Sciences	5.3.1 Education, General (Including Training, Pedagogy, Didactics) 5.3.2 Education, Special
	5.4 Sociology	5.4.1 Sociology 5.4.2 Demography 5.4.3 Anthropology 5.4.4 Ethnology 5.4.5 Special Topics (Gender studies; Social issues; Family studies, Social work)
	5.5 Law	5.5.1 Law 5.5.2 Criminology 5.5.3 Penology
	5.6 Political Science	5.6.1 Political Science 5.6.2 Public Administration 5.6.3 Organization Theory
	5.7 Social and Economic Geography	5.7.1 Environmental Sciences (Social Aspects) 5.7.2 Cultural and Economic Geography 5.7.3 Urban Studies (Planning and Development) 5.7.4 Transport Planning and Social Aspects of Transport
	5.8 Media and Communications	5.8.1 Journalism 5.8.2 Information Science 5.8.3 Library Science 5.8.4 Media and Socio-Cultural Communication
	5.9 Other social sciences	5.9.1 Interdisciplinary Social Sciences 5.9.2 Other Social Sciences
6. Humanities	6.1 History and Archaeology	6.1.1 History 6.1.2 Archaeology
	6.2 Languages and Literature	6.2.1 General Language Studies 6.2.2 Specific Languages 6.2.3 General Literature Studies 6.2.4 Literary Theory 6.2.5 Specific Literatures 6.2.6 Linguistics

6. Humanities	6.3 Philosophy, Ethics and Religion	6.3.1	Philosophy
		6.3.2	History and Philosophy
		6.3.3	Ethics (Except Ethics Related to Specific Subfields)
		6.3.4	Theology
		6.3.5	Religious studies
	6.4 Arts (Arts, History of Arts, Performing Arts, Music)	6.4.1	Arts
		6.4.2	Art History
		6.4.3	Architectural Design
		6.4.4	Performing Arts Studies
		6.4.5	Folklore Studies
		6.4.6	Studies on Film, Radio and Television
6.5 Others humanities	6.5.1	Other Humanities	