

Basic Science Research Grant Program

Scientific Areas, Tracks, Sub-tracks, and Applied Areas

Prepared by STU/DSR/KFUPM

AREA	TRACK	SUB-TRACK
Natural Science	Mathematics	<ul style="list-style-type: none">• Pure Mathematics• Applied Mathematics• Statistics & Probability
	Computer & Information Sciences	<ul style="list-style-type: none">• Computer Sciences• Information Science & Bioinformatics
	Physical Sciences	<ul style="list-style-type: none">• Atomic, Molecular & Chemical Physics• Condensed matter Physics• Particles & Fields Physics• Nuclear Physics• Fluids & Plasma Physics (including surface physics)• Optics (including laser optics & quantum optics)• Acoustics• Astronomy (including astrophysics, space science)
	Chemical Sciences	<ul style="list-style-type: none">• Organic Chemistry• Inorganic & Nuclear Chemistry• Physical Chemistry• Polymer Science• Electrochemistry• Colloid Chemistry• Analytical Chemistry
	Earth & Related Environmentals	<ul style="list-style-type: none">• Geosciences (multidisciplinary)• Mineralogy• Paleontology• Geochemistry & Geophysics• Physical Geography• Geology• Volcanology• Environmental Sciences• Meteorology & Atmospheric Sciences• Climatic Research• Oceanography• Hydrology• Water Resources

	Biological Sciences (Medical to be 3 & Agricultural to be 4)	<ul style="list-style-type: none"> • Cell Biology • Microbiology • Virology • Biochemistry & Molecular Biology • Biochemical Research Methods • Mycology • Biophysics • Genetics & Heredity • Reproductive Biology • Developmental Biology • Plant sciences, botany • Zoology • Ornithology • Entomology • Behavioural Sciences Biology • Marine Biology • Freshwater Biology • Limnology • Ecology • Biodiversity Conservation • Biology • Evolutionary Biology • Other Biological topics
	Other Natural Sciences	N/A
Engineering & Technology	Civil Engineering	<ul style="list-style-type: none"> • Civil Engineering • Architecture Engineering • Construction Engineering • Municipal & Structural Engineering • Transport Engineering
	Electrical Engineering, Electronic Engineering, Information Engineering	<ul style="list-style-type: none"> • Electrical & Electronic Engineering • Robotics & Automatic Control • Automation & Control Systems • Communication Engineering & Systems • Telecommunications • Computer Hardware & Architecture
	Mechanical Engineering	<ul style="list-style-type: none"> • Mechanical Engineering • Applied Mechanics • Thermodynamics • Aerospace Engineering • Nuclear related Engineering • Audio Engineering, Reliability Analysis

	Chemical Engineering	<ul style="list-style-type: none"> • Chemical Engineering • Chemical Process Engineering
	Materials Engineering	<ul style="list-style-type: none"> • Materials Engineering • Ceramics • Coating & Films • Composites • Paper & Wood • Textiles
	Medical Engineering	<ul style="list-style-type: none"> • Medical Engineering • Medical Laboratory Technology
	Environmental Engineering	<ul style="list-style-type: none"> • Environmental & Geological Engineering • Geotechnics • Petroleum Geotechnics (fuel, oils) • Energy & Fuels • Remote Sensing • Mining & Mineral Processing • Marine Engineering • Sea Vessels • Ocean Engineering
	Environmental Biotechnology	<ul style="list-style-type: none"> • Environmental Biotechnology • Geotechnics • Diagnostics Biotechnologies • Environmental Biotechnology related Ethics
	Industrial Biotechnology	<ul style="list-style-type: none"> • Industrial Biotechnology • Bioprocessing Technologies • Biocatalysis • Fermentation • Bioproducts • Biomaterials • Bioplastics • Biofuels • Bio-derived bulk & fine chemicals • Bio-derived novel materials
	Nano-technology	<ul style="list-style-type: none"> • Nano-materials • Nano-processes
	Other Engineering & Technologies	<ul style="list-style-type: none"> • Food & Beverages • Other Engineering & Technologies
	Basic Medicine	<ul style="list-style-type: none"> • Anatomy & Morphology • Human Genetics • Immunology • Neuro Sciences • Pharmacology & Pharmacy

Medical & Health Sciences		<ul style="list-style-type: none"> • Medicinal Chemistry • Toxicology • Physiology (including Cytology) • Pathology
	Clinical Medicine	<ul style="list-style-type: none"> • Andrology • Obstetrics & Gynecology • Paediatrics • Cardiac and Cardio Vascular Systems • Peripheral Vascular Disease • Hematology • Respiratory Systems • Critical Care Medicine & Emergency Medicine • Anaesthesiology • Orthopaedics • Surgery • Radiology • Nuclear Medicine & Medical Imaging • Transplantation • Dentistry • Oral Surgery & Medicine • Dermatology & Venereal Diseases • Allergy • Rheumatology • Endocrinology & Metabolism • Gastroenterology & Hepatology • Urology & Nephrology • Oncology • Ophthalmology • Otorhinolaryngology • Psychiatry • Clinical Neurology • Geriatrics and Gerontology • General & Internal Medicine • Other Clinical Medicine Subjects • Integrative & Complementary Medicine
	Heath Sciences	<ul style="list-style-type: none"> • Health Care Sciences & Services • Health Policy & services • Nursing Nutrition & Dietetics • Public & Environmental Health • Tropical Medicine • Parasitology • Infectious Diseases

		<ul style="list-style-type: none"> • Epidemiology • Occupational Health • Sport and Fitness Sciences • Sport Biomedical Sciences • Psycho-oncology • Political & Social Effects of Biomedical Research • Medical Ethics • Substance Abuse
	Medical Biotechnology	<ul style="list-style-type: none"> • Health Related Biotechnology • Technologies involving the manipulation of Cells, Tissues, Organs, or the whole Organism • Technologies involving identifying the functioning of DNA, Proteins and Enzymes & how they influences the onset of disease & maintenance of well-being Biomaterials • Medical Biotechnology related Ethics
	Other Medical Sciences	<ul style="list-style-type: none"> • Forensic Science • Other Medical Sciences
Agricultural Sciences	Agriculture, Forestry, & Fisheries	<ul style="list-style-type: none"> • Agriculture • Forestry • Fishery • Soil science • Horticulture • Viticulture • Agronomy, Plant Breeding & Plant Protection
	Animal & Dairy Science	<ul style="list-style-type: none"> • Animal & Dairy Science • Husbandry • Pets
	Veterinary Science	<ul style="list-style-type: none"> • Veterinary Science
	Agriculture Biotechnology	<ul style="list-style-type: none"> • Agricultural Biotechnology & Food Biotechnology • GM Technology (Crops & Livestock) • Livestock Cloning • Marker Assisted Selection • Diagnostics • Biopharming • Agricultural Biotechnology Related Ethics
	Other Agricultural Sciences	N/A

Applied Areas:

- Water.
- Energy.
- Oil, Gas and Mining.
- Petrochemicals & Materials.
- Medical & Health.
- Space and Aeronautics.
- Agriculture & Agricultural Industries.
- Building & Construction.
- ECP.
- Environment.
- Defence & Security.
- Transportation.