

**Summary of Notices of Intent Submitted to the
Research Competitiveness Subprogram (RCS)
for the FY 2009-2010 Review Cycle**

NOI #	Title	Institution/Department	Principal Investigator	Duration (Yrs)	BoRSF Money Requested
001 A-10/BS	Molecular Regulators of the Central Mammalian Circadian Clock	Centenary College of Louisiana (Department of Biology)	Greg Q. Butcher		
	New Request		Contain Confidential/Proprietary Information? No	1	49,483
				2	42,597
				3	43,293
				TOTAL	135,373
002 A-10/C/IS	Incorporating Machine Learning and Prior Knowledge into the RoboCupRescue Challenge Through Inductive Logic Programming	Centenary College of Louisiana (Department of Mathematics and Computer Science)	Mark Goadrich		
	New Request		Contain Confidential/Proprietary Information? No	1	28,500
				2	24,000
				TOTAL	52,500
003 A-10/CHE	Synthesis and <i>in vivo</i> Testing of Perfluoroalkyl Derivatives of Arene-Containing Analgesics	Centenary College of Louisiana (Department of Chemistry)	Joshua D. Lawrence Scott E. Chirhart (Co-PI) Gregory Q. Butcher (Other Investigator)		
	New Request		Contain Confidential/Proprietary Information? No	1	48,400
				2	47,400
				3	47,400
				TOTAL	143,200
004 A-10/BS	Quantifying Noble Gas Anesthetic Interactions with Hydrophobic Interfaces	Centenary College of Louisiana (Department of Physics and Biophysics)	Troy C. Messina		
	New Request		Contain Confidential/Proprietary Information? No	1	45,000
				2	15,000
				3	15,000
				TOTAL	75,000
005 A-10/CHE	Electrochemical Detection of Protease Activity with Selectively Modified Sensors	Dillard University (Department of Chemistry)	Sonya L. Caston		
	New Request		Contain Confidential/Proprietary Information? No	1	60,000
				2	50,000
				3	50,000
				TOTAL	160,000
006 A-10/EAR	Airborne Microbial Concentration Assessment in Post-Katrina Flooded Reclaimed Buildings	Dillard University (Department of Biology/Physic-Pre-Engineering)	Bernard Singleton Abdalla Darwish (Co-PI/PD) Mark T. Hernandez (Other Investigator) Carlen McIn (Other Investigator)		
	New Request		Contain Confidential/Proprietary Information? No	1	90,667
				2	53,516
				3	53,517
				TOTAL	197,700

NOI #	Title	Institution/Department	Principal Investigator	Duration (Yrs)	BoRSF Money Requested
007 A-10/BS	Chemical Ecology of Louisiana Coastal Wetland Forest Defoliators	Louisiana State University and A&M College - Agricultural Center (Department of Entomology)	Jeremy D. Allison		
	New Request		Contain Confidential/Proprietary Information? No		48,000
					42,000
					42,000
				TOTAL	132,000
008 A-10/BS	Comparative Genomics of Salt Stress Response Between Salt Tolerant and Salt Sensitive Rice	Louisiana State University And A&M College - Agricultural Center (School of Plant, Environmental & Soil Science)	Niranjan Baisakh		
	New Request		Contain Confidential/Proprietary Information? No	1	47,176
				2	47,160
				3	28,874
				TOTAL	123,210
009 A-10/BS	Development of a Physiological Based Index of Condition to Determine Health in Crayfish	Louisiana State University And A&M College - Agricultural Center (Aquaculture Research Station)	Christopher C. Green		
	New Request		Contain Confidential/Proprietary Information? No	1	47,748
				2	39,825
				3	40,510
				TOTAL	128,083
010 A-10/ENG B	Engineered Multi-Scalar Tissue Scaffolds	Louisiana State University And A&M College - Agricultural Center (Department of Biological & Agricultural Engineering)	Daniel Hayes William T. Monroe (Co-PI/PD)		
	New Request		Contain Confidential/Proprietary Information? No	1	65,000
				2	65,000
				3	65,000
				TOTAL	195,000
011 A-10/BS	Gene Expression Involved in Reproduction and Response to Immune and Xenobiotic Challenges in the Formosan Subterranean Termite	Louisiana State University And A&M College - Agricultural Center (Department of Entomology)	Claudia Husseneder		
	New Request		Contain Confidential/Proprietary Information? No	1	68,600
				2	67,300
				3	64,100
				TOTAL	200,000
012 A-10/EAR	Bioremediation of Estrogenic Hormones for Poultry Litter-Amended Agricultural Land Surface Runoff with a Constructed Wetland System	Louisiana State University And A&M College - Agricultural Center (Red River Research Station)	Eddie P. Millhollon Dalton R. Gossett Co-PI/PD Stephen W. Banks (Other Investigator)		
	New Request		Contain Confidential/Proprietary Information? No	1	34,884
				2	33,384
				3	33,184
				TOTAL	101,452

NOI #	Title	Institution/Department	Principal Investigator	Duration (Yrs)	3oRSF Money Requested		
013 A-10/BS	Evaluation of Antimicrobial Resistance in Human and Animal Pathogens: Likelihood of Transmission of Resistant Pathogens from Animals to Humans	Louisiana State University And A&M College - Agricultural Center (Hill Farm Research Station)	William E. Owens Sidney M. DeRouen (Co-PI/PD) Johnnie G. Whitmire (Other Investigator)				
				New Request	Contain Confidential/Proprietary Information? No	1	47,014
						2	30,000
						3	32,500
				TOTAL	109,514		
014 A-10/EAR	Use of Mechanism Designs to Find the Optimal Level of Water Quality in Broiler Production Region of Louisiana	Louisiana State University And A&M College - Agricultural Center (Department of Agricultural Economics)	Krishna P. Paudel Steven Hall (Co-Pi/PD) Theresia Lavargne (Other Investigator)				
				New Request	Contain Confidential/Proprietary Information? No	1	123,250
						2	62,500
015 A-10/ENG B	Cultivation of ZnO Nano Rods on Cell Walls for Superhydrophobic Wood	Louisiana State University And A&M College - Agricultural Center (Calhoun Research Station)	Cheng Piao				
				New Request	Contain Confidential/Proprietary Information?? Yes	1	51,000
						2	52,000
						3	53,000
				TOTAL	156,000		
016 A-10/BS	Genetic Population Structure in Louisiana Bachman's Sparrows	Louisiana State University And A&M College - Agricultural Center (School of Renewable Natural Resources)	Sabrina Taylor				
				New Request	Contain Confidential/Proprietary Information? No	1	40,000
						2	40,000
						3	40,000
				TOTAL	120,000		
017 A-10/BS	Molecular and Biological Interactions Between Non-Pathogenic dsRNS Viruses and Pathogenic Viruses of Pepper and Tomato	Louisiana State University And A&M College - Agricultural Center (Department of Plant Pathology and Crop Physiology)	Rodrigo A. Valverde				
				New Request	Contain Confidential/Proprietary Information? No	1	40,000
						2	45,000
						3	35,000
				TOTAL	120,000		
018 A-10/HEA	Capabilities of Photochemicals in Legumes, Vegetables and Fruits in Inhibiting Cholesterol Oxidation	Louisiana State University And A&M College - Agricultural Center (Department of Food Sciences)	Zhimin Xu				
				New Request	Contain Confidential/Proprietary Information? No	1	30,000
						2	35,000

NOI #	Title	Institution/Department	Principal Investigator	Duration (Yrs)	BoRSF Money Requested
019 A-10/BS	Dietary Lectins in the Environmental "Unknown Pathogen" in Parkinson's Disease	Louisiana State University And A&M College - Agricultural Center (Department of Veterinary Science)	Jolene Zheng Jeff Keller (Other Investigator)		
	New Request		Contain Confidential/Proprietary Information? No	1	60,000
				2	70,000
				3	55,000
				TOTAL	185,000
020 A-10/ENG B	Development of Finite Elements for Response and Response Sensitivity Analysis of Reinforced Concrete Structures Retrofitted with Externally-Bonded...	Louisiana State University And A&M College - Baton Rouge (Department of Civil and Environmental Engineering)	Michele Barbato		
	New Request		Contain Confidential/Proprietary Information? No	1	44,930
				2	43,203
				3	41,733
				TOTAL	129,866
021 A-10/HEA	Talker-Specific Speech Perception in Louisiana's Toddlers With and Without Hearing Loss	Louisiana State University And A&M College - Baton Rouge (Department of Communication Sciences & Disorders)	Brittan A. Barker		
	New Request		Contain Confidential/Proprietary Information? No	1	50,000
				2	50,000
				3	50,000
				TOTAL	150,000
022 A-10/ENG B	Development of a Novel Genetic Screen for Enhanced Bioplastic Production in Aquatic Microorganisms	Louisiana State University And A&M College - Baton Rouge (Department of Chemical Engineering)	Michael G. Benton		
	New Request		Contain Confidential/Proprietary Information? No	1	67,000
				2	67,000
				3	66,000
				TOTAL	200,000
023 A-10/HEA	Brief Marijuana Treatment for Mandated University Students	Louisiana State University And A&M College - Baton Rouge (Department of Psychology)	Julia D. Buckner		
	New Request		Contain Confidential/Proprietary Information? No	1	61,875
				2	62,050
				3	57,475
				TOTAL	181,400
024 A-10/C/IS	Design and Development of Efficient Contention Managers for Software Transactional Memory	Louisiana State University And A&M College - Baton Rouge (Department of Computer Science)	Konstantin Busch		
	New Request		Contain Confidential/Proprietary Information? No	1	50,000
				2	50,000
				3	50,000
				TOTAL	150,000

NOI #	Title	Institution/Department	Principal Investigator	Duration (Yrs)	BoRSF Money Requested	
025 A-10/ENG B	Hybrid Electronic Materials for Alternative Energy Applications	Louisiana State University And A&M College - Baton Rouge (Department of Electrical and Computer Engineering)	Theda Daniels-Race			
				New Request	Contain Confidential/Proprietary Information? No	
					1	70,000
					2	60,000
					3	60,000
	TOTAL		190,000			
026 A-10/C/IS	Bi-Directional Mobile Phone Interactions for Enhancing Education & Commerce	Louisiana State University And A&M College - Baton Rouge (Department of Information Systems & Decision Sciences)	Jamison M. Day			
				New Request	Contain Confidential/Proprietary Information? No	
					1	65,000
					2	50,000
					3	35,000
	TOTAL		150,000			
027 A-10/EAR	Probabilistic Characterization of Cycling-Induced Sediment-Water Interface in Fine-Grained Streams	Louisiana State University And A&M College - Baton Rouge (Department of Civil and Environmental Engineering)	Zhi-Qiang Deng			
				New Request	Contain Confidential/Proprietary Information? No	
					1	47,329
					2	43,968
					3	39,419
	TOTAL		130,716			
028 A-10/ENG B	Supplying Materials and Basic Necessities to Disaster Areas	Louisiana State University And A&M College - Baton Rouge (Department of Construction Management & Industrial Engr.)	Pius E. Egbelu Bhaba R. Sarker			
				New Request	Contain Confidential/Proprietary Information? No	
					1	75,000
					2	72,000
					3	53,000
	TOTAL		200,000			
029 A-10/BS	Climate Change and Disease Transmission: Shifts in Host-Pathogen Ranges	Louisiana State University And A&M College - Baton Rouge (Department of Biological Sciences)	Bret Elderd James Reilly			
				New Request	Contain Confidential/Proprietary Information? No	
					1	90,000
					2	50,000
					3	50,000
	TOTAL		190,000			
030 A-10/BS	Mitochondrial Dysfunction and Renal Damage in Metabolic Syndrome	Louisiana State University And A&M College - Baton Rouge (Dept. of Comparative Biomedical Sciences)	Joseph Francis			
				New Request	Contain Confidential/Proprietary Information? No	
					1	85,000
					2	75,000
					TOTAL	

NOI #	Title	Institution/Department	Principal Investigator	Duration (Yrs)	BoRSF Money Requested	
031 A-10/ENG B	Vulnerability of Critical Industrial Infrastructure Subjected to Hurricane Storm Surge	Louisiana State University And A&M College - Baton Rouge (Dept. of Construction Managemet & Industrial Engr.)	Carol J. Friedland			
				New Request	Contain Confidential/Proprietary Information? No	
					1	54,050
					2	53,975
				3	49,450	
				TOTAL	157,475	
032 A-10/ENG B	Multi-scale Molding Technology Development	Louisiana State University And A&M College - Baton Rouge (Center for Advanced Microstructures & Devices)	Josh Goettert Yoonyoung Jin (CoPI/PD) Proyag Datta (Other Investigator) Varshni Sinah (Other Investigator)			
				New Request	Contain Confidential/Proprietary Information? No	
					1	90,000
					2	60,000
				TOTAL	150,000	
033 A-10/ENG B	Production of High Energy Compounds from Microalgal Strains Native to Louisiana	Louisiana State University And A&M College - Baton Rouge (Department of Civil and Environmental Engineering)	Maria Teresa Gutierrez-Wing			
				New Request	Contain Confidential/Proprietary Information? No	
					1	63,231
					2	64,745
				3	68,238	
				TOTAL	196,214	
034 A-10/ENG B	Predictive Modeling of Construction Process Operations in Transportation Projects and Decision-Making Automation	Louisiana State University And A&M College - Baton Rouge (Dept. of Construction Managemet and Industrial Engr.)	Marwa M. Hassan			
				New Request	Contain Confidential/Proprietary Information? No	
					1	39,818
					2	39,246
				3	38,820	
				TOTAL	117,884	
035 A-10/EAR	Eddy Flux Evaluations for Evapotranspiration Estimation in Northeastern Louisiana	Louisiana State University And A&M College - Baton Rouge (Department of Environmental Sciences)	April Hiscox Robert Rohli (Co-PI/PD) Ron Sheffield (Other Investigator) Ernest Clawson (Other Investigator)			
				New Request	Contain Confidential/Proprietary Information? No	
					1	80,000
					2	50,000
				3	45,000	
				TOTAL	175,000	
036 A-10/ENG B	Sialic Acid Modified Polyamines to Prevent A-Beta Toxicity <i>In Vitro</i>	Louisiana State University And A&M College - Baton Rouge (Department of Chemical Engineering)	James Henry			
				New Request	Contain Confidential/Proprietary Information? No	
					1	55,000
					2	55,000
				3	55,000	
				TOTAL	165,000	

NOI #	Title	Institution/Department	Principal Investigator	Duration (Yrs)	3oRSF Money Requested		
037 A-10/ENG B	Improving Patient Safety Using Lean and Safety Principles	Louisiana State University And A&M College - Baton Rouge (Dept. of Construction Manaaement & Industrial Ennr.)	Laura H. Ikuma Isabelina Nahmens (Co-PI/PD) Craig Harvey (Other Investigator)				
				New Request	Contain Confidential/Proprietary Information? No	1	53,717
						2	18,382
				TOTAL	72,099		
038 A-10/EAR	Role of Type Three Secretion Systems in Vibrio Colonization of Oysters	Louisiana State University And A&M College - Baton Rouge (Department of Environmental Sciences)	Crystal N. Johnson				
				New Request	Contain Confidential/Proprietary Information? No	1	59,718
						2	61,087
				TOTAL	183,305		
039 A-10/ENG B	Characterization of Foam Flow for Deep-Water and Deep-Well Underbalanced Drilling Operations	Louisiana State University And A&M College - Baton Rouge (Department of Petroleum Engineering)	Seung Ihi Kam				
				New Request	Contain Confidential/Proprietary Information? No	1	50,000
						2	50,000
				TOTAL	150,000		
040 A-10/BS	Systems Modeling of Pollen Tube Growth in Arabidopsis	Louisiana State University And A&M College - Baton Rouge (Department of Biological Sciences)	Naohiro Kato				
				New Request	Contain Confidential/Proprietary Information? No	1	50,000
						2	49,800
				TOTAL	149,300		
041 A-10/HEA	Quantifying Effects of Age and Gender on Vocal Fold Vibration by Using High-Speed Digital Imaging and Phonovibrogram	Louisiana State University And A&M College - Baton Rouge (Department of Communication Sciences and Disorders)	Melda Kunduk				
				New Request	Contain Confidential/Proprietary Information? No	1	50,000
						2	50,000
				TOTAL	150,000		
042 A-10/ENG B	Developing Au-Cu/Carbon Core/Shell Nanoparticles for Using as Fuel Cell Electrocatalyst: Fabrication and Characterization	Louisiana State University And A&M College - Baton Rouge (Center for Advanced Microstructures & Devices)	Kun Lian				
				New Request	Contain Confidential/Proprietary Information?? No	1	70,000
						2	80,000
				TOTAL	150,000		

NOI #	Title	Institution/Department	Principal Investigator	Duration (Yrs)	BoRSF Money Requested
043 A-10/EAR	Mercury Assessment and Accumulation in Food Webs and Sediments Among Habitats of Louisiana Coastal Floodplains	Louisiana State University And A&M College - Baton Rouge (Department of Oceanography & Coastal Sciences)	Charles W. Lindau John A. Nyman (Co-PI/PD)		
	New Request		Contain Confidential/Proprietary Information? No	1	48,000
				2	53,000
				3	50,000
				TOTAL	151,000
044 A-10/C/IS	Assessing Retail Flood Hazard Resilience Towards a Cost-Effective Disaster Recovery	Louisiana State University And A&M College - Baton Rouge (School of Human Ecology)	Chuanlan Liu Fahui Wang (Other Investigator) Ye-Sho Chen (Other Investigator) William Black (Other Investigator)		
	New Request		Contain Confidential/Proprietary Information? No	1	82,763
				2	82,763
				TOTAL	165,526
045 A-10/BS	Function Mechanism of RNAi Directed Viral Immunity in <i>C. elegans</i>	Louisiana State University And A&M College - Baton Rouge (Department of Biological Sciences)	Rui Lu		
	New Request		Contain Confidential/Proprietary Information?? Yes	1	50,000
				2	50,000
				3	50,000
				TOTAL	150,000
046 A-10/BS	NMR Structural Studies of O Linked- β -N-Acetylglucosamine Modified Proteins	Louisiana State University And A&M College - Baton Rouge (Department of Chemistry)	Megan A. Macnaughtan		
	New Request		Contain Confidential/Proprietary Information? No	1	50,000
				2	50,000
				3	50,000
				TOTAL	150,000
047 A-10/EAR	Remobilisation and Bioaccumulation of ^{210}Po in the Gulf of Mexico Hypoxia	Louisiana State University And A&M College - Baton Rouge (Department of Oceanography and Coastal Sciences)	Kanchan Maiti		
	New Request		Contain Confidential/Proprietary Information? No	1	69,135
				2	79,525
				TOTAL	148,660
048 A-10/ENG B	Direct Numeric Simulation of Feed-Back Control in Fluid Systems with Non-Linear Damping	Louisiana State University And A&M College - Baton Rouge (Department of Mechanical Engineering)	Michael James Martin		
	New Request		Contain Confidential/Proprietary Information? No	1	47,063
				2	46,916
				3	46,814
				TOTAL	140,793

NOI #	Title	Institution/Department	Principal Investigator	Duration (Yrs)	BoRSF Money Requested
049 A-10/ENG B	Computational Material Modeling of NanoCrystalline Metallic Solids at Finite Temperatures	Louisiana State University And A&M College - Baton Rouge (Department of Civil and Environmental Engineering)	Dr. Suresh Moorthy		
	New Request		Contain Confidential/Proprietary Information? No	1	70,000
				2	70,000
				3	60,000
				TOTAL	200,000
050 A-10/HEA	Dengue Virus Transmission Dynamics are Characterized by Competitive Interactions Between Different, Naturally Coincident Serotypes and Subtypes of Dengue Virus	Louisiana State University And A&M College - Baton Rouge (Department Pathobiological Sciences)	Christopher N. Mores		
	New Request		Contain Confidential/Proprietary Information? No	1	65,000
				2	65,000
				3	65,000
				TOTAL	195,000
051 A-10/BS	Role of Brain Inflammatory Molecule in the Development of Hypertension	Louisiana State University And A&M College - Baton Rouge (Department of Veterinary Clinical Sciences)	Romain Pariat Joseph Francis (Co-PI/PD)		
	New Request		Contain Confidential/Proprietary Information? No	1	75,000
				2	65,000
				3	60,000
				TOTAL	200,000
052 A-10/HEA	Neutrophil Response in Insulin Resistant Equine Endothelial Cell Culture	Louisiana State University And A&M College - Baton Rouge (Department of Veterinary Clinical Sciences)	Laura M. Riggs Changaram S. Venugopal (Other Investigator) Ralph E. Beadle (Other Investigator)		
	New Request		Contain Confidential/Proprietary Information? No	1	55,000
				2	43,000
				TOTAL	98,000
053 A-10/EAR	Assessment of Sustainable Building Technologies	Louisiana State University And A&M College - Baton Rouge (Department of Construction Management & Industrial Engr.)	Emerald M. Roider Isabelina Nahmens (Co-PI/PD)		
	New Request		Contain Confidential/Proprietary Information? No	1	60,095
				2	48,500
				3	27,000
				TOTAL	135,595
054 A-10/ENG B	Katrina/Gustav: Emergency Evacuation Plan and Traffic Control During Disasters	Louisiana State University And A&M College - Baton Rouge (Department of Construction Management & Industrial Engr.)	Bhaba R. Sarker Pius E. Egbelu (Other Investigator)		
	New Request		Contain Confidential/Proprietary Information? No	1	75,000
				2	72,000
				3	53,000
				TOTAL	200,000

NOI #	Title	Institution/Department	Principal Investigator	Duration (Yrs)	BoRSF Money Requested		
055 A-10/ENG B	Tomographic Imaging of Combustion Zones: In-Situ Measurement of Temperature and Species Concentrations Using Tunable Diode Lasers	Louisiana State University And A&M College - Baton Rouge (Department of Mechanical Engineering)	Ingmar Michael Schoegl				
				New Request	Contain Confidential/Proprietary Information? No	1	50,936
						2	51,044
						3	51,150
			TOTAL		153,130		
056 A-10/C/IS	An Exploration into the Antecedents and Physiological Reactions of Creative and Innovative Individuals in the Domain of IT	Louisiana State University And A&M College - Baton Rouge (Department of Information Systems and Decision Sciences)	Andrew Schwarz				
				New Request	Contain Confidential/Proprietary Information? No	1	65,453
						2	65,838
						3	66,223
			TOTAL		197,514		
057 A-10/BS	Excluding Arsenic from Plants Via Altered Phosphate Transporter Expression	Louisiana State University And A&M College - Baton Rouge (Department of Biological Sciences)	Aaron P. Smith				
				New Request	Contain Confidential/Proprietary Information? No	1	50,000
						2	50,000
						3	50,000
			TOTAL		150,000		
058 A-10/ENG B	Development of Durable Rehabilitation Surface on Existing Concrete	Louisiana State University And A&M College - Baton Rouge (Department of Civil and Environmental Engineering)	Hak-Chul Shin				
				New Request	Contain Confidential/Proprietary Information? No	1	50,700
						2	49,900
						3	48,400
			TOTAL		149,000		
059 A-10/EAR	Modeling the Transport of Cohesive Sediments	Louisiana State University And A&M College - Baton Rouge (Department of Civil and Environmental Engineering)	Heather D. Smith				
				New Request	Contain Confidential/Proprietary Information? No	1	54,130
						2	50,979
						3	53,985
			TOTAL		159,094		
060 A-10/ENG B	Modeling of Multi-Stranded Hydraulic Fracture Propagation in Tight Formations by Incorporating the Interaction Between Induced and Natural Fractures	Louisiana State University And A&M College - Baton Rouge (Department of Petroleum Engineering)	Arash Dahi Taleghani				
				New Request	Contain Confidential/Proprietary Information? No	1	43,546
						2	44,674
			TOTAL		88,220		

NOI #	Title	Institution/Department	Principal Investigator	Duration (Yrs)	BoRSF Money Requested	
061 A-10/ENG B	Simulation and Optimization of Coupled Fluid Flow and Heat Transfer Processes in Geopressed-Geothermal Subsurface Systems Using State-of-The-Art High...	Louisiana State University And A&M College - Baton Rouge (Department of Petroleum Engineering)	Mayank Tyagi Christopher White (Co-PI/PD) Jeffery Nunn (Other Investigator)			
				New Request	Contain Confidential/Proprietary Information? No	
					1	69,000
					2	64,000
			3	66,500		
			TOTAL	199,500		
062 A-10/EAR	Mapping Coastal Erosion and Storm Surge Hazards on the Western Louisiana Coast	Louisiana State University And A&M College - Baton Rouge (Department of Geography and Anthropology)	Lei Wang Barry Keim (Other Investigator)			
				New Request	Contain Confidential/Proprietary Information? No	
					1	50,000
					2	50,000
			TOTAL	100,000		
063 A-10/ENG B	New Methods of Incorporating Photonic Crystals Into Solar Cells for Enhanced Light Harvesting	Louisiana State University And A&M College - Baton Rouge (Department of Mechanical Engineering)	Ying Wang			
				New Request	Contain Confidential/Proprietary Information? No	
					1	40,000
					2	45,000
			3	50,000		
			TOTAL	135,000		
064 A-10/EAR	Testing Crustal Flow Models in Southeast Asia	Louisiana State University And A&M College - Baton Rouge (Department of Geology and Geophysics)	A. Alexander G. Webb			
				New Request	Contain Confidential/Proprietary Information? No	
					1	25,000
					2	25,000
			TOTAL	50,000		
065 A-10/BS	Structural and Functional Study of Prolyl Endopeptidase	Louisiana State University Health Sciences Center - New Orleans (Department of Biochemistry and Molecular Biology)	Thang K. Chiu			
				New Request	Contain Confidential/Proprietary Information? No	
					1	75,000
					2	75,000
			3	50,000		
			TOTAL	200,000		
066 A-10/BS	Epigenetic Alterations in Uterine Leiomyoma	Louisiana State University Health Sciences Center - New Orleans (Department of Genetics)	Judy S. Crabtree			
				New Request	Contain Confidential/Proprietary Information? No	
					1	60,000
					2	60,000
			3	60,000		
			TOTAL	180,000		

NOI #	Title	Institution/Department	Principal Investigator	Duration (Yrs)	BoRSF Money Requested		
067 A-10/BS	Human Papillomavirus-16 E6/E7 Oncoproteins and Focal Adhesion Kinase (FAK)	Louisiana State University Health Sciences Center - New Orleans (Biochemistry and Molecular Biology)	KyungWon Huh				
				New Request	Contain Confidential/Proprietary Information? ? Yes	1 2	50,000 50,000
					TOTAL		100,000
068 A-10/HEA	Identification and Characterization of IRBP Signaling Pathway in Retinal Photoreceptor Survival	Louisiana State University Health Sciences Center - New Orleans (Neuroscience Center of Excellence)	Minghao Jin				
				New Request	Contain Confidential/Proprietary Information??? No	1 2 3	60,000 65,000 65,000
					TOTAL		190,000
069 A-10/BS	Tracking Transcriptome Changes During Neural Circuit Development in the Songbird Brain by RNA-Seq	Louisiana State University Health Sciences Center - New Orleans (Neuroscience Center of Excellence)	XiaoChing Li				
				New Request	Contain Confidential/Proprietary Information? No	1 2 3	40,000 50,000 60,000
					TOTAL		150,000
070 A-10/HEA	Epigenetic Regulation of the HSV-1 Genome During Reactivation	Louisiana State University Health Sciences Center - New Orleans (Department of Ophthalmology and Genetics)	Donna M. Neumann				
				New Request	Contain Confidential/Proprietary Information? No	1 2 3	60,000 70,000 70,000
					TOTAL		200,000
071 A-10/BS	The Role of HDAC6 in Age Related Neurodegeneration	Louisiana State University Health Sciences Center - New Orleans (Department of Genetics)	Udai Pandey				
				New Request	Contain Confidential/Proprietary Information? No	1 2 3	53,672 55,978 58,672
					TOTAL		168,322
072 A-10/BS	Gamma Delta T Cells are Integral Mediators of Pulmonary Fibrosis	Louisiana State University Health Sciences Center - New Orleans (Department of Genetics)	Derek Pociask				
				New Request	Contain Confidential/Proprietary Information? No	1 2 3	50,000 50,000 50,000
					TOTAL		150,000

NOI #	Title	Institution/Department	Principal Investigator	Duration (Yrs)	BoRSF Money Requested
073 A-10/HEA	Multidimensional Data Integration and Display in Deep Brain Stimulation	Louisiana State University Health Sciences Center - New Orleans (Department of Neurosurgery)	Erich Oscar Richter Hilary Thompson (Co-PI/PD)		
	New Request		Contain Confidential/Proprietary Information? No	1	51,470
				2	50,130
				3	46,360
				TOTAL	147,960
074 A-10/HEA	Role of Interleukin-23 in Host Defense Against <i>P. carinii</i>	Louisiana State University Health Sciences Center - New Orleans (Department of Medicine)	Xiaowen Rudner Judd E. Shellito		
	New Request		Contain Confidential/Proprietary Information? No	1	60,000
				2	60,000
				3	60,000
				TOTAL	180,000
075 A-10/HEA	Developmental Origins of Photoreceptor Neurons in a Basal Deuterostome, the Sear Urchin <i>S. purpuratus</i>	Louisiana State University Health Sciences Center - New Orleans (Department of Cell Biology & Anatomy)	Judith M. Venuti William H. Klein (Other Investigator)		
	New Request		Contain Confidential/Proprietary Information? No	1	75,000
				2	60,000
				3	60,000
				TOTAL	195,000
076 A-10/HEA	A Comparative Proteomic Approach to Study the Role of Ubiquitination in Alzheimer's Disease	Louisiana State University Health Sciences Center - New Orleans (Neuroscience Center of Excellence)	Chunlai Wu		
	New Request		Contain Confidential/Proprietary Information? No	1	55,000
				2	55,000
				3	60,000
				TOTAL	170,000
077 A-10/BS	Mechanism of Cadmium-Induced Neuronal Apoptosis	Louisiana State University Health Sciences Center - Shreveport (Department of Biochemistry and Molecular Biology)	Shile Huang Baoshan Xu (Other Investigator)		
	New Request		Contain Confidential/Proprietary Information? No	1	70,000
				2	70,000
				3	60,000
				TOTAL	200,000
078 A-10/BS	Aging Effects on Inherent Dopamine Compensation Mechanisms in Parkinson's Diseases	Louisiana State University Health Sciences Center - Shreveport (Department of Pharmacology, Toxicology and Neuroscience)	Michael F. Salvatore		
	New Request		Contain Confidential/Proprietary Information? No	1	74,188
				2	74,188
				TOTAL	148,376

NOI #	Title	Institution/Department	Principal Investigator	Duration (Yrs)	BoRSF Money Requested
079 A-10/BS	Mutant p53 and Mitochondrial Functions in Lymphoma Treatment	Louisiana State University Health Sciences Center - Shreveport (Department of Pharmacology, Toxicology and Neuroscience)	Yunfeng Zhao Terry Oberley (Co-PI/PD) Runhua Shi (Other Investigator)		
	New Request		Contain Confidential/Proprietary Information? No	1	64,740
				2	63,640
				3	62,820
				TOTAL	191,200
080 A-10/C/HE	Probing Roles of Reactive Oxygen Species in Carcinogenesis Using Novel Photonic Nanosensors	Louisiana State University And A&M College - Shreveport (Department of Chemistry and Physics)	Kui Chen Brian A. Salvatore (Other Investigator) Shile Huang (Other Investigator)		
	New Request		Contain Confidential/Proprietary Information? No	1	40,365
				2	40,365
				3	39,096
				TOTAL	119,826
081 A-10/BS	Effects of Nutrient Fertilization on Nutritional and Defensive Mangrove Leaf Chemistry and on Herbivore Feeding Behavior in North and Central American...	Louisiana State University And A&M College - Shreveport (Department of Biological Sciences)	Amy Anne Erickson Stephen W. Banks (Consultant) Elahe Mahdavian (Consultant)		
	New Request		Contain Confidential/Proprietary Information? No	1	88,000
				2	28,000
				3	28,000
				TOTAL	144,000
082 A-10/C/IS	Wireless Sensor Networks for Environmental Monitoring	Louisiana State University And A&M College - Shreveport (Department of Computer Science)	Leslie D. Fife		
	New Request		Contain Confidential/Proprietary Information? No	1	30,000
				2	25,000
				3	25,000
				TOTAL	80,000
083 A-10/C/IS	Developing an Effective Dimensionality Reduction Methodology for Malicious Software Detection Predictors	Louisiana Tech University (Department of Computer Science)	Travis Atkison		
	New Request		Contain Confidential/Proprietary Information? No	1	55,000
				2	50,000
				3	45,000
				TOTAL	150,000
084 A-10/C/IS	Parallel Algebraic Multigrid Methods on Distributed Memory Computers for Large Scale Industrial Applications on the LONI Infrastructure	Louisiana Tech University (Department of Computer Science)	Abdelkader Baggag		
	New Request		Contain Confidential/Proprietary Information? No	1	70,000
				2	70,000
				3	60,000
				TOTAL	200,000

NOI #	Title	Institution/Department	Principal Investigator	Duration (Yrs)	BoRSF Money Requested
085 A-10/ENG B	DNA Identification Using Spatial Thermoelectric Detection	Louisiana Tech University (Institute for Micromanufacturing)	Niel D. Crews		
	New Request		Contain Confidential/Proprietary Information? No	1	80,000
				2	60,000
				3	60,000
				TOTAL	200,000
086 A-10/C/IS	Theoretical and Practical Development of Tools for the Visualization of Graphs in a Dynamic Environment	Louisiana Tech University (Department of Computer Science)	Christian A. Duncan		
	New Request		Contain Confidential/Proprietary Information? No	1	55,000
				2	50,000
				3	45,000
				TOTAL	150,000
087 A-10/CHE	Spectroscopic and Electrochemical Studies of the Electrodeposition of Refractory Metals and Alloys in Room Temperature Ionic Liquids	Louisiana Tech University (Department of Chemistry)	Sven Eklund		
	New Request		Contain Confidential/Proprietary Information? No	1	60,000
				2	45,000
				3	45,000
				TOTAL	150,000
088 A-10/ENG B	Early Detection of Subclinical Alzheimer Disease Using 2-D Micro-Electrophoresis Chip	Louisiana Tech University (Department of Biomedical Engineering)	June Feng		
	New Request		Contain Confidential/Proprietary Information? No	1	50,000
				2	50,000
				3	50,000
				TOTAL	150,000
089 A-10/ENG B	Artificial Optical Materials for Low Observability Stealth Technology	Louisiana Tech University (Department of Physics and Electrical Engineering)	Dentcho A. Genov		
	New Request		Contain Confidential/Proprietary Information? No	1	50,000
				2	45,000
				3	45,000
				TOTAL	140,000
090 A-10/C/IS	API-S: Addressing Mobile Agent Security for More Robust Intelligent Agents	Louisiana Tech University (Department of Computer Science)	Jean Gourd		
	New Request		Contain Confidential/Proprietary Information? No	1	60,000
				2	45,000
				3	45,000
				TOTAL	150,000

NOI #	Title	Institution/Department	Principal Investigator	Duration (Yrs)	BoRSF Money Requested
091 A-10/BS	Development of an Autonomous Replicating Plasmid and CHIP Analysis of <i>Candida albicans</i>	Louisiana Tech University (School of Biological Sciences)	Patrick Lawrence Hindmarsh		
	New Request			Contain Confidential/Proprietary Information? No	
				1	36,500
				2	36,500
				3	36,500
				TOTAL	109,500
092 A-10/ENG B	On-demand, Passive, Low Cost and Robust Receptor for Health Monitoring of Civil Infrastructure Networks	Louisiana Tech University (Department of Civil Engineering)	Arun P. Jaganathan Neven Simicevic (Co-PI/PD) Erez Allouche (Co-PI/PD)		
	New Request			Contain Confidential/Proprietary Information? Yes	
				1	80,000
				2	60,000
				3	60,000
				TOTAL	200,000
093 A-10/C/IS	A New Computational Method for Improving DNA Arrays Sensitivity	Louisiana Tech University (Department of Mathematics and Statistics)	Mihaela Paun Weignong Dai (Other Investigator)		
	New Request			Contain Confidential/Proprietary Information? No	
				1	55,396
				2	51,267
				3	42,152
				TOTAL	148,815
094 A-10/HEA	Factors Affecting Acceptance of Augmented Reality Support Systems by Louisiana Health Care Workers	Louisiana Tech University (Department of Health Information Management)	James Phillips		
	New Request			Contain Confidential/Proprietary Information? No	
				1	70,000
				2	60,000
				TOTAL	130,000
095 A-10/HEA	Novel Methods for Microarray Gene Expression Data Mining for Translational Bioinformatics	Louisiana Tech University (Department of Health Information Management)	Prema Sethi		
	New Request			Contain Confidential/Proprietary Information? No	
				1	48,002
				2	46,754
					49,185
				TOTAL	143,941
096 A-10/HEA	The Role of Genetic Allele Composition and Environmental Factors in the Development of Multiple Sclerosis in Humans	Louisiana Tech University (School of Biological Sciences)	Jeffrey L. Shultz		
	New Request			Contain Confidential/Proprietary Information? No	
				1	32,000
				2	32,000
				3	32,000
				TOTAL	96,000

NOI #	Title	Institution/Department	Principal Investigator	Duration (Yrs)	3oRSF Money Requested
097 A-10/ENG B	Diverging Flow Cell Electroporation to Facilitate <i>in vitro</i> Biomolecule Delivery	Louisiana Tech University (Institute for Micromanufacturing)	Shengnian Wang		
	New Request		Contain Confidential/Proprietary Information? No	1	80,000
				2	60,000
				3	60,000
				TOTAL	200,000
098 A-10/BS	Toxicity of Nanoparticle Exposure During Early Development of Fathead Minnows (<i>Pimephales promelas</i>)	Louisiana Tech University (School of Biological Sciences)	William C. Wolf		
	New Request		Contain Confidential/Proprietary Information? No	1	47,000
				2	38,000
				3	33,000
				TOTAL	118,000
099 A-10/BS	Modeling the Ecological and Evolutionary Causes and Consequences of Extinctions	Louisiana Tech University (School of Biological Sciences)	Jeffrey V. Yule		
	New Request		Contain Confidential/Proprietary Information? No	1	49,078
				2	49,078
				3	49,078
				TOTAL	147,234
100 A-10/CHE	Organic Synthesis of Two Series of Amino Acid Derivatives: Neurotransmitter Analogues and Antimalarials	Loyola University New Orleans (Department of Chemistry)	J. Hoyt Meyer		
	New Request		Contain Confidential/Proprietary Information? No	1	48,617
				2	34,234
				3	16,300
				TOTAL	99,151
101 A-10/BS	Novel Roles for the Orphan Nuclear Receptor NURR1 in Arthritis	Loyola University New Orleans (Department of Biological Sciences)	Kimberlee S. Mix		
	New Request		Contain Confidential/Proprietary Information? No	1	70,000
				2	65,000
				3	60,000
				TOTAL	195,000
102 A-10/CHE	Antioxidant and Anti-Inflammatory Metabolites from <i>Coccoloba uvifera</i> (Seagrapes) and <i>Crataegus opaca</i> (Mavhaws)	McNeese State University (Department of Chemistry)	Omar E. Christian Mark Merchant (Co-PI/PD)		
	New Request		Contain Confidential/Proprietary Information? No	1	53,000
				2	53,000
				3	53,000
				TOTAL	159,000

NOI #	Title	Institution/Department	Principal Investigator	Duration (Yrs)	BoRSF Money Requested
103 A-10/CHE	Computational Design of PbS Quantum Dots With Unique Optical and Magnetic Properties	McNeese State University (Department of Physics)	Anil K. Kandalam Kiran Boggavarapu (Co-PI/PD)		
	New Request		Contain Confidential/Proprietary Information? No	1	75,000
				2	75,000
				TOTAL	150,000
104 A-10/CHE	Phytovoltlization of Hexachlobutadiene by Spartina alterniflora in Soil in Southwest LA	McNeese State University (Department of Chemistry)	Joseph Sneddon James L. Donelson (Co-PI/PD)		
	New Request		Contain Confidential/Proprietary Information? No	1	56,000
				2	56,000
				3	12,000
				TOTAL	124,000
105 A-10/C/IS	Enhancing Object Type Systems by Algebraic Graph Transformations	Nicholls State University (Department of Math and Computer Science)	Cong-cong Xing		
	New Request		Contain Confidential/Proprietary Information? No	1	34,800
				2	34,800
				3	34,800
				TOTAL	104,400
106 A-10/EAR	Assessment of Small Unmanned Aerial System (UAS) for Monitoring Impaired and Restored Barrier Islands	Nicholls State University (Department of Applied Science)	Balaji Ramachandran Gary J. LaFleur, Jr. (Co-PI/PD)		
	New Request		Contain Confidential/Proprietary Information? No	1	48,500
				2	46,000
				3	32,250
				TOTAL	126,750
107 A-10/HEA	Lifestyle Factors and the Risk of Heart Failure	Pennington Biomedical Research Center (Department of Chronic Disease Epidemiology)	Gang Hu Jaakko Tuomilehto (Co-PI/PD) Pekka Jousilahti (Other Investigator)		
	New Request		Contain Confidential/Proprietary Information? No	1	67,395
				2	67,395
				3	65,020
				TOTAL	199,810
108 A-10/HEA	Improving Access to Appropriate Health Care Among Louisiana Farm Families	Southeastern Louisiana University (School of Nursing)	Ann K. Carruth Cathy Cormier (Co-PI/PD) Natalie Roy (Other Investigator)		
	New Request		Contain Confidential/Proprietary Information? No	1	80,000
				2	50,000
				3	20,000
				TOTAL	150,000

NOI #	Title	Institution/Department	Principal Investigator	Duration (Yrs)	3oRSF Money Requested
109 A-10/C/IS	Discovering Socially-Valuable Trends by Extracting Personal Experiences for the Web	Southeastern Louisiana University (Department of Computer Science and Industrial Technology)	Aron Culotta		
	New Request		Contain Confidential/Proprietary Information? No	1	58,139
				2	31,205
				3	26,365
				TOTAL	115,709
110 A-10/CHE	Synthesis of N,N-linked Biazoles from their Corresponding Azoles through Direct N,N-bond Formation	Southeastern Louisiana University (Department of Chemistry and Physics)	Jean Fotie		
	New Request		Contain Confidential/Proprietary Information? No	1	45,000
				2	44,000
				3	44,000
				TOTAL	133,000
111 A-10/C/IS	Aggregating User Profiles from Multiple Social Network Memberships	Southeastern Louisiana University (Department of Computer Science and Industrial Technology)	Troy Kammerdiener		
	New Request		Contain Confidential/Proprietary Information? No	1	29,965
				2	28,238
				3	29,575
				TOTAL	87,778
112 A-10/ENG B	Formation Control of a Group of Car-like Mobile Robots	Southeastern Louisiana University (Department of Computer Science and Industrial Technology)	Ho-Hoon Lee Shunmugham R. Pandian (Co-PI/PD)		
	New Request		Contain Confidential/Proprietary Information? No	1	55,000
				2	45,000
				TOTAL	100,000
113 A-10/CHE	Exploiting Reactions of Phosphorus Halogenides with Acetylates for Novel Compounds and Materials	Southeastern Louisiana University (Department of Chemistry and Physics)	Yingchun Li		
	New Request		Contain Confidential/Proprietary Information? No	1	41,211
				2	33,523
				3	35,121
				TOTAL	109,855
114 A-10/CHE	Sonochemical Synthesis of Graphene and its Hybrid Nanosheets	Southeastern Louisiana University (Department of Chemistry and Physics)	Zhengrong Li		
	New Request		Contain Confidential/Proprietary Information? No	1	45,000
				2	40,000
				3	35,000
				TOTAL	120,000

NOI #	Title	Institution/Department	Principal Investigator	Duration (Yrs)	BoRSF Money Requested
115 A-10/ENG B	Effects of Weather Conditions on Performance and Lifecycle of Solar Power Systems	Southeastern Louisiana University (Department of Computer Science and Industrial Technology)	Junkun Ma Patrick McDowell (Other Investigator)		
	New Request		Contain Confidential/Proprietary Information? No	1	68,000
				2	56,000
				3	58,000
				TOTAL	182,000
116 A-10/EAR	Evaluating the Potential Use and Impacts of Nanomaterials for Hazardous Sites Clean Up Operations	Southeastern Louisiana University (Department of Computer Science and Industrial Technology)	Ephraim A. Massawe		
	New Request		Contain Confidential/Proprietary Information? No	1	60,000
				2	60,000
				3	50,000
				TOTAL	170,000
117 A-10/ENG B	Solidification Processing, Heat Transfer Phenomena, and Material Properties Characterization in Continuous Strip Casting of Ferrous and Non-ferrous Alloys	Southeastern Louisiana University (Department of Computer Science and Industrial Technology)	Rana Mirta Roy J. Issa (Other Investigator)		
	New Request		Contain Confidential/Proprietary Information? No	1	41,225
				2	26,225
				3	26,225
				TOTAL	93,675
118 A-10/BS	Microbial Diversity of Cadaver Decomposition Islands	Southeastern Louisiana University (Department of Biological Sciences)	Erin J. Watson Gary T. Howard (Co-PI/PD)		
	New Request		Contain Confidential/Proprietary Information? No	1	60,000
				2	60,000
				3	60,000
				TOTAL	180,000
119 A-10/HEA	A Participatory Ergonomics Approach to Reduce Injuries for Librarians	Southeastern Louisiana University (Department of Computer Science and Industrial Technology)	Lu Yuan		
	New Request		Contain Confidential/Proprietary Information? No	1	40,000
				2	40,000
				TOTAL	80,000
120 A-10/HEA	Applying Computational Approaches to Model Protein-Substrate Interactions in the Lipoyxygenase Family	Southern University and A&M College - Baton Rouge (Department of Computer Science)	Shuju Bai		
	New Request		Contain Confidential/Proprietary Information? No	1	66,000
				2	57,000
				3	57,000
				TOTAL	180,000

NOI #	Title	Institution/Department	Principal Investigator	Duration (Yrs)	3oRSF Money Requested
121 A-10/C/IS	Development of Heuristic Systems to Solve NP-Hard Optimization Problems	Southern University and A&M College - Baton Rouge (Department of Computer Science)	Nigel Gwee		
	New Request		Contain Confidential/Proprietary Information? No	1	50,000
				2	50,000
				3	50,000
				TOTAL	150,000
122 A-10/ENG B	Large Scale Parallel Molecular Dynamics Simulation and Visualization of Carbon Nano-Fiber Reinforced Cement Composites	Southern University and A&M College - Baton Rouge (Department of Mechanical Engineering)	Amitava Jana Eyassu Woldeesenbet (Other Investigator) Guoqiang Li (Other Investigator) Saniav Kodivalam (Other Investigator)		
	New Request		Contain Confidential/Proprietary Information? No	1	55,000
				2	50,000
				3	50,000
				TOTAL	155,000
123 A-10/CHE	Zeolites as Heterogeneous Catalysts for Biodiesel Production	Southern University and A&M College - Baton Rouge (Department of Chemistry)	Conrad A. Jones		
	New Request		Contain Confidential/Proprietary Information? No	1	54,000
				2	66,000
				TOTAL	120,000
124 A-10/C/IS	Investigating the Risk Factors and Ascertain Their Weights in Software Development Life Cycles	Southern University and A&M College - Baton Rouge (Department of Computer Science)	Osman Kandara		
	New Request		Contain Confidential/Proprietary Information? No	1	51,150
				2	51,150
				3	51,150
				TOTAL	153,450
125 A-10/C/IS	Design and Implementation of a Server Side Email Spam Blocker	Southern University and A&M College - Baton Rouge (Department of Computer Science)	Mathieu Kokoly Kourouma Victor Wacham A. Mbarika (Co-PI/PD)		
	New Request		Contain Confidential/Proprietary Information? No	1	75,000
				2	50,000
				3	50,000
				TOTAL	175,000
126 A-10/BS	Bioelectricity (Biohydrogen) by Microbial Fuel Cells (MFC) at Wastewater Treatment Plant	Southern University and A&M College - Baton Rouge (Department of Biology)	Srivatcha Naragoni Oswald D'Auvergne (Co-PI/PD) Pushpa J Samkutty (Other Investigator) Rambabu Bobba (Other Investigator)		
	New Request		Contain Confidential/Proprietary Information? No	1	65,000
				2	65,000
				TOTAL	130,000

NOI #	Title	Institution/Department	Principal Investigator	Duration (Yrs)	BoRSF Money Requested	
127 A-10/ENG B	Experimental Study and Numerical Simulation of Advanced Hybrid Joints Bonded with Shape Memory Alloy (SMA) and Shape Memory Polymer (SMP)	Southern University and A&M College - Baton Rouge (Department of Mechanical Engineering)	Zhenyu Ouyang Guoqiang Li (Co-PI/PD)			
				New Request	Contain Confidential/Proprietary Information? No	
					1	45,000
					2	40,000
					3	35,000
	TOTAL		120,000			
128 A-10/C/IS	Wireless Sensor Network Approach for Monitoring Home Security Systems	Southern University and A&M College - Baton Rouge (Department of Computer Science)	Abdus Salam Ebrahim Khosravi (Co-PI/PD) P.K. Bhattacharya (Other Investigator)			
				New Request	Contain Confidential/Proprietary Information? No	
					1	80,000
					2	50,000
					3	50,000
	TOTAL		180,000			
129 A-10/BS	Synergistic Effects of Two Environmental Contaminants on Cellular and Molecular Reproductive Responses <i>in vivo</i> and <i>in vitro</i>	Southern University and A&M College - Baton Rouge (Department of Biological Sciences)	Fitzgerald Spencer Eduardo Martinez-Ceballos (Co-PI/PD)			
				New Request	Contain Confidential/Proprietary Information? No	
					1	60,000
					2	70,000
					3	60,000
	TOTAL		190,000			
130 A-10/C/IS	Use of Multimedia Instructional Materials to Improve Student Learning	Southern University and A&M College - Baton Rouge (Department of Management)	Carlos Thomas Victor W. Mbarika (Co-PI/PD)			
				New Request	Contain Confidential/Proprietary Information? No	
					1	75,000
					2	60,000
					3	55,000
	TOTAL		190,000			
131 A-10/C/IS	A Multiple Sequence Alignment Using Optimization Techniques	Southern University and A&M College - Baton Rouge (Department of Computer Science)	Rachel Vincent - Finley			
				New Request	Contain Confidential/Proprietary Information? No	
					1	23,000
					2	23,000
					3	23,000
	TOTAL		69,000			
132 A-10/ENG B	First Principles Simulation and Synthesis A Novel Thermal Barrier Coating and A High Efficient Transition Metal Nanoparticle Based Catalyst	Southern University and A&M College - Baton Rouge (Department of Computer Science)	Shizhong Yang			
				New Request	Contain Confidential/Proprietary Information? No	
					1	56,000
					2	53,000
					3	53,000
	TOTAL		162,000			

NOI #	Title	Institution/Department	Principal Investigator	Duration (Yrs)	BoRSF Money Requested
133 A-10/BS	Molecular Regulation of Cortical Synapse Development	Tulane University (Department of Cell and Molecular Biology)	Benjamin Hall		
	New Request		Contain Confidential/Proprietary Information? No	1	58,000
				2	53,000
				3	50,000
				TOTAL	161,000
134 A-10/ENG B	Magneto-Electric Couplings in Multiferroic Films and Heteroepitaxial-Vertical-Nanocomposites for Materials Applications	Tulane University (Department of Physics and Engineering)	Dae Ho Kim		
	New Request		Contain Confidential/Proprietary Information? No	1	63,249
				2	63,588
				3	63,934
				TOTAL	190,771
135 A-10/ENG B	The Role of Surfactants in the Electrochemical Synthesis of Anisotropic Crystalline Particles	Tulane University (Department of Chemical & Biomolecular Engineering)	Noshir S. Pesika		
	New Request		Contain Confidential/Proprietary Information? No	1	65,041
				2	65,373
				3	65,713
				TOTAL	196,127
136 A-10/EAR	Compensational Stacking of Sedimentary Deposits in Underfilled and Overfilled Basins	Tulane University (Department of Earth and Environmental Sciences)	Kyle Straub		
	New Request		Contain Confidential/Proprietary Information? No	1	66,000
				2	66,000
				3	66,000
				TOTAL	198,000
137 A-10/HEA	Human Cationic Antimicrobial Peptide 18/LL-37: A New Biomarker for Ovarian Cancer	Tulane University Health Sciences Center (Department of Microbiology)	Aline M. Betancourt		
	New Request		Contain Confidential/Proprietary Information? No	1	75,000
				2	75,000
				TOTAL	150,000
138 A-10/HEA	Targeting a SOX Family Gene to Modulate EMT and Metastatic Spread of Breast Cancer	Tulane University Health Sciences Center (Department of Pharmacology)	Geetika Chakravarty		
	New Request		Contain Confidential/Proprietary Information? No	1	50,000
				2	52,000
				3	55,000
				TOTAL	157,000

NOI #	Title	Institution/Department	Principal Investigator	Duration (Yrs)	BoRSF Money Requested
139 A-10/BS	Biomarkers for Acute and Latent Tuberculosis and for Co-infection with AIDS	Tulane University Health Sciences Center (Department of Microbiology and Immunology)	Deepak Kaushal Andrew L. Lackner (Co-PI/PD) Chad J. Roy (Other Investigator) Smriti Mehra (Other Investigator)		
	New Request			1	66,000
				2	66,000
				3	66,000
				TOTAL	198,000
140 A-10/BS	Effects of Positive Inotropic Agents on Gene Expression of Adrenergic Receptors, Bcl2 and β - and α -Myosin Heavy Chain in Cultured Human Cardiomyocytes	Tulane University Health Sciences Center (Department of Anesthesiology)	Henry Liu Marilyn M. Li (Co-PI/PD) John D. Pigott (Other Investigator)		
	New Request		Contain Confidential/Proprietary Information? No	1	50,000
				2	40,000
				3	30,000
				TOTAL	120,000
141 A-10/BS	Sex Differences in the Development and Progression of Angiotensin II-Dependent Hypertension During Chronic High Dietary Salt	Tulane University Health Sciences Center (Department of Physiology)	Minolfa C. Prieto		
	New Request		Contain Confidential/Proprietary Information? No	1	70,000
				2	65,000
				3	65,000
				TOTAL	200,000
142 A-10/HEA	Louisiana Anesthesia Patient Safety Foundation: Public Reporting of Perioperative Outcomes	Tulane University Health Sciences Center (Department of Anesthesiology)	Francis Rosinia Larry Webber (Other Investigator)		
	New Request		Contain Confidential/Proprietary Information?? No	1	33,000
				2	31,000
				3	31,000
				TOTAL	95,000
143 A-10/BS	Role of Heparan Sulfate 6-O-Endosulfatase 1 and 2 in Pulmonary Fibrosis	Tulane University Health Sciences Center (Department of Medicine/Pulmonary Disease)	Xinping Yue		
	New Request		Contain Confidential/Proprietary Information? No	1	70,000
				2	70,000
				3	60,000
				TOTAL	200,000
144 A-10/C/IS	Building Organic Computers: Circuit & Systems Design for Organic Computing	University of Louisiana at Lafayette (Center for Advanced Computer Studies)	Magdy Bayoumi Soumik Ghosh (Co-PI/PD) Mohamed Elgamel (Other Investigator)		
	New Request		Contain Confidential/Proprietary Information? No	1	50,000
				2	50,000
				3	50,000
				TOTAL	150,000

NOI #	Title	Institution/Department	Principal Investigator	Duration (Yrs)	BoRSF Money Requested	
145 A-10/EAR New Request	Growth Kinetics and Light Dynamics in Multi-species Micro-algal Cultures Raised on Eutrophic Waters from the Northern Gulf of Mexico	University of Louisiana at Lafayette (Department of Renewable Resources and Environmental Science)	Barbara C. Benson			
				Contain Confidential/Proprietary Information? No	1	69,600
					2	66,600
					3	60,600
	TOTAL			196,800		
146 A-10/HEA New Request	An Evaluation of Reinforcement Value of Physical Activity in a Virtual Environment	University of Louisiana at Lafayette (Department of Kinesiology)	Brian Campbell Andrew Hatchett (Other Investigator) Justin Schroyer (Other Investigator)			
				Contain Confidential/Proprietary Information? No	1	80,000
					2	80,000
	TOTAL			160,000		
147 A-10/ENG B New Request	Thermal Property Detection in Reactive Composite Systems	University of Louisiana at Lafayette (Department of Chemical Engineering)	William M. Chirdon			
				Contain Confidential/Proprietary Information? No	1	47,586
					2	51,117
					3	44,448
	TOTAL			143,151		
148 A-10/HEA New Request	Paradoxical Suppression of Broadly Neutralizing Antibodies in the Presence of Strain Specific Anti-Bodies During HIV Infection	University of Louisiana at Lafayette (Department of Mathematics)	Stanca Mihaela Ciupe			
				Contain Confidential/Proprietary Information? No	1	25,000
					2	20,000
					3	20,000
	TOTAL			65,000		
149 A-10/C/IS New Request	Collaborative Learning in Science and Engineering: Innovative Strategies for Group Interactions in Immersive Spaces	University of Louisiana at Lafayette (Department of Electrical and Computer Engineering)	Carolina Cruz-Neira Jan Springer (Other Investigator) Dirk Reiners (Other Investigator)			
				Contain Confidential/Proprietary Information?? No	1	71,247
					2	73,450
					3	55,100
	TOTAL			199,797		
150 A-10/ENG B New Request	Development and Evaluation of Nano-Scale Mesoporous Sorbents (NSMS) for Space Water Recovery Systems (WRS)	University of Louisiana at Lafayette (Department of Civil Engineering)	Daniel Dianchen Gang			
				Contain Confidential/Proprietary Information? No	1	55,000
					2	52,000
					3	49,000
	TOTAL			156,000		

NOI #	Title	Institution/Department	Principal Investigator	Duration (Yrs)	3oRSF Money Requested
151 A-10/CHE	Modification of Refinery Catalysts for Production of Renewable Fuels	University of Louisiana at Lafayette (Department of Chemical Engineering)	Stephen Dufreche Mark E. Zappi (Other Investigator) Rakesh Bajpai (Other Investigator)		
	New Request		Contain Confidential/Proprietary Information? No	1	49,591
				2	44,591
				3	44,591
				TOTAL	138,773
152 A-10/BS	Integrating Ecological and Evolutionary Theory to Understand the Epidemiology of Rapidly Evolving Viral Pathogens	University of Louisiana at Lafayette (Department of Biology)	Scott M. Duke-Sylvester		
	New Request		Contain Confidential/Proprietary Information? No	1	31,000
				2	31,000
				3	31,000
				TOTAL	93,000
153 A-10/ENG B	An Experimental Investigation of Hydroforming Microchannels in Sheet Metal to Enhance PEM Fuel Cell Production	University of Louisiana at Lafayette (Department of Mechanical Engineering)	William J. Emblom		
	New Request		Contain Confidential/Proprietary Information? No	1	60,000
				2	80,000
				3	60,000
				TOTAL	200,000
154 A-10/ENG B	Developing Autonomous Fault Tolerant Control Technology for Complex Systems	University of Louisiana at Lafayette (Department of Electrical and Computer Engineering)	Afef Fekih		
	New Request		Contain Confidential/Proprietary Information? No	1	40,000
				2	40,000
				3	40,000
				TOTAL	120,000
155 A-10/HEA	Oncologists' Attitudes Toward Recommending Physical Activity to Patients Diagnosed with Cancer	University of Louisiana at Lafayette (Department of Kinesiology)	Andrew Hatchett		
	New Request		Contain Confidential/Proprietary Information? No	1	30,000
				2	30,000
				TOTAL	60,000
156 A-10/EAR	A Comparison of Iterative and Non-iterative Approaches to Limited Angle Tomography	University of Louisiana at Lafayette (Department of Physics)	Louis M. Houston		
	New Request		Contain Confidential/Proprietary Information? No	1	60,000
				2	60,000
				TOTAL	120,000

NOI #	Title	Institution/Department	Principal Investigator	Duration (Yrs)	BoRSF Money Requested
157 A-10/C/IS	Information Systems in Reverse Logistics	University of Louisiana at Lafayette (Department of Business System Analysis and Technology)	Hsiu-Yueh (Sonya) Hsu Zhiwei Zhu (Co-PI/PD)		
	New Request		Contain Confidential/Proprietary Information? No	1	79,744
				2	81,333
				TOTAL	161,077
158 A-10/EAR	A Phenomenological Approach to the Development of a Physical Model of Tornadoes in a Laboratory	University of Louisiana at Lafayette (Department of Mechanical Engineering)	Jerry K. Keska William E. Simon (Co-PI/PD)		
	New Request		Contain Confidential/Proprietary Information? No	1	55,079
				2	62,887
				TOTAL	117,966
159 A-10/ENG B	Process Development of Fiber Reinforced High Temperature Polymer NanoComposites	University of Louisiana at Lafayette (Department of Industrial Technology)	Ahmed Khattab		
	New Request		Contain Confidential/Proprietary Information? No	1	65,000
				2	65,000
				3	65,000
				TOTAL	195,000
160 A-10/ENG B	Development of Advanced Modeling Methodology for Creating Concept Finite Element Model for Vehicle Architecture	University of Louisiana at Lafayette (Department of Mechanical Engineering)	Yucheng Liu		
	New Request		Contain Confidential/Proprietary Information? No	1	48,350
				2	42,993
				3	43,668
				TOTAL	135,011
161 A-10/CHE	Polynuclear Cu(II) Complexes Catalyzing the Cleavage of DNA and 2-Hydroxypropyl-4-Nitrophenyl phosphate Diester (HPNPP)	University of Louisiana at Lafayette (Department of Chemistry)	Salah S. Massoud		
	New Request		Contain Confidential/Proprietary Information? No	1	69,750
				2	63,150
				3	63,450
				TOTAL	196,350
162 A-10/C/IS	3D Spatial Interaction Methods and Metaphors for Multi-Touch Table Devices		Dirk Reiners Carolina Cruz-Neira (Other Investigator) Christian Odom (Other Investigator)		
	New Request		Contain Confidential/Proprietary Information? No	1	70,556
				2	72,731
				3	55,862
				TOTAL	199,149

NOI #	Title	Institution/Department	Principal Investigator	Duration (Yrs)	3oRSF Money Requested
163 A-10/C/IS	Performance Analysis for Physical Walking Inside an Immersive Space	University of Louisiana at Lafayette (Department of Electrical and Computer Engineering)	Jan Springer Carolina Cruz-Neira (Other Investigator) Dirk Reiners (Other Investigator)		
	New Request		Contain Confidential/Proprietary Information? Yes	1	70,183
				2	72,450
				3	53,000
				TOTAL	195,633
164 A-10/CHE	Development of Ruthenium and Mn-based Anticancer Drugs with Emphasis on the Strategy	University of Louisiana at Lafayette (Department of Chemistry)	Radhey Srivastava		
	New Request		Contain Confidential/Proprietary Information? No	1	68,606
				2	67,260
				3	64,022
				TOTAL	199,888
165 A-10/BS	Plant Biomass Production for Biofuel: Gene Discovery and Ecological Consequences	University of Louisiana at Lafayette (Department of Renewable Resources)	Yi-Hong Wang Durga D. Poudel (Co-PI/PD) Alan DeRamus (Other Investigator)		
	New Request		Contain Confidential/Proprietary Information? No	1	60,129
				2	73,580
				3	46,729
				TOTAL	180,438
166 A-10/C/IS	GPS-Free Autonomous Robotic Exploration	University of Louisiana at Lafayette (Center for Advanced Computer Studies)	Hongyi Wu		
	New Request		Contain Confidential/Proprietary Information? ?? No	1	21,000
				2	21,000
				3	21,000
				TOTAL	63,000
167 A-10/CHE	Function of A Hypothetical Protein Slr0110 of <i>Synechocystis</i> sp. PCC 6803 in Light and Glucose-Induced Signal Transduction	University of Louisiana at Lafayette (Department of Chemistry)	Wu Xu		
	New Request		Contain Confidential/Proprietary Information? No	1	60,000
				2	55,000
				3	55,000
				TOTAL	170,000
168 A-10/CHE	A Chemical Platform for The Study of The Biological Functions and Antiparasitic Potentials of Arginase	University of Louisiana at Lafayette (Department of Chemistry)	Fengtian Xue		
	New Request		Contain Confidential/Proprietary Information? No	1	65,000
				2	55,000
				3	55,000
				TOTAL	175,000

NOI #	Title	Institution/Department	Principal Investigator	Duration (Yrs)	BoRSF Money Requested
169 A-10/BS	Carbon Sequestration in Bottomland Hardwood Forests	University of Louisiana at Monroe (Department of Biology)	Joydeep Bhattacharjee Bonniface Mills (Co-PI/PD)		
	New Request		Contain Confidential/Proprietary Information? No	1	71,596
				2	68,596
				TOTAL	140,192
170 A-10/CHE	Construction and Investigation of Novel Polymeric Materials	University of Louisiana at Monroe (Department of Chemistry)	Jason A. Carr		
	New Request		Contain Confidential/Proprietary Information? No	1	75,000
				2	75,000
				3	50,000
				TOTAL	200,000
171 A-10/CHE	Use of Poly(oxyphenylene) Coatings to Improve Contact Galvanic Corrosion Between Magnesium Alloys and Steel	University of Louisiana at Monroe (Department of Chemistry)	Emad El-Giar		
	New Request		Contain Confidential/Proprietary Information? No	1	100,000
				2	50,000
				3	50,000
				TOTAL	200,000
172 A-10/HEA	Role of 3,5,3' -Triiodothyronine (T3) in Herpes Simplex Virus Type 1 (HSV-1) Infection	University of Louisiana at Monroe (Department of Basic Pharmaceutical Sciences)	S. Victor Hsia		
	New Request		Contain Confidential/Proprietary Information? No	1	31,669
				2	31,687
				3	31,365
				TOTAL	94,721
173 A-10/BS	Effects of Chronic Hypoglycemia on Renal Function	University of Louisiana at Monroe (Department of Basic Pharmaceutical Sciences)	Keith E. Jackson		
	New Request		Contain Confidential/Proprietary Information? No	1	45,000
				2	40,000
				3	35,000
				TOTAL	120,000
174 A-10/HEA	The role of P-gp and LRP1 in Beta Amyloid Clearance	University of Louisiana at Monroe (Department of Basic Pharmaceutical Sciences)	Amal Khalil Kaddouni Karen Briski (Other Investigator)		
	New Request		Contain Confidential/Proprietary Information? No	1	50,000
				2	40,000
				3	40,000
				TOTAL	130,000

NOI #	Title	Institution/Department	Principal Investigator	Duration (Yrs)	BoRSF Money Requested
175 A-10/HEA	Evaluating the Health Condition, Needs, Health Literacy Level, and Resources Among Northeastern Louisiana Elders	University of Louisiana at Monroe (Department of Gerontology, Sociology, and Political Science)	Karen Kopera-Frye		
	New Request		Contain Confidential/Proprietary Information? No	1	64,900
				2	69,000
				3	61,100
				TOTAL	195,000
176 A-10/BS	Cancer Stem Cells and Drug Resistance in Breast Cancer	University of Louisiana at Monroe (Department of Basic Pharmaceutical Science)	Yong-Yu Liu Girish Shah (Co-PI/PD) Paul W. Sylvester (Other Investigator)		
	New Request		Contain Confidential/Proprietary Information? No	1	62,000
				2	62,000
				TOTAL	124,000
177 A-10/BS	The Contribution of Hydrogen Bonding on Ionizable Groups in Proteins with Highly Perturbed Acid Ionization Constants	University of Louisiana at Monroe (Department of Chemistry)	Richard L. Thurlkill		
	New Request		Contain Confidential/Proprietary Information? No	1	48,370
				2	36,433
				3	31,633
				TOTAL	116,436
178 A-10/C/IS	GPU Clusters	University of New Orleans (Department of Electrical Engineering)	Abdul R. Alsamman		
	New Request		Contain Confidential/Proprietary Information? No	1	40,000
				2	40,000
				TOTAL	80,000
179 A-10/C/IS	Morphing the Gameboard: A Novel Detection and Defense Framework Against Modern Malicious Software	University of New Orleans (Department of Computer Science)	Daniel Bilal		
	New Request		Contain Confidential/Proprietary Information? No	1	30,384
				2	62,293
				3	65,292
				TOTAL	157,969
180 A-10/CHE	Nanoscale Engineering of Multiferroic Magnetolectric Epitaxial Nanocomposites	University of New Orleans (Department of Chemistry)	Gabriel Caruntu		
	New Request		Contain Confidential/Proprietary Information? No	1	100,000
				2	50,000
				TOTAL	150,000

NOI #	Title	Institution/Department	Principal Investigator	Duration (Yrs)	3oRSF Money Requested
181 A-10/ENG B	Numerical Analysis on Performance of Impulse Turbine Under Bi-directional and Random Inlet Flow Conditions for Wave Energy Conversion Application	University of New Orleans (Energy Conversion and Conservation Center)	Thirumalaisai Shanmugam Dhanasekaran		
	New Request		Contain Confidential/Proprietary Information? No	1	25,000
				2	25,000
				3	25,000
				TOTAL	75,000
182 A-10/EAR	Uplift and Incision of the Ethiopian Plateau: Integration of Quantitative Geomorphology, Paleolimnology, and Thermochronology	University of New Orleans (Department of Earth & Environmental Sciences)	M. Royhan Gani Nahid DS Gani (Co-PI/PD)		
	New Request		Contain Confidential/Proprietary Information? No	1	60,000
				2	60,000
				3	60,000
				TOTAL	180,000
183 A-10/ENG B	Improving Thermoelectric Generator Performance via Structural Optimization	University of New Orleans (Department of Mechanical Engineering)	Paul D. Herrington		
	New Request		Contain Confidential/Proprietary Information? No	1	94,500
				2	51,800
					32,000
				TOTAL	178,300
184 A-10/CHE	Accurate Computational Methods for Pharmaceutical Drug Discovery	University of New Orleans (Department of Chemistry)	David L. Mobley		
	New Request		Contain Confidential/Proprietary Information? No	1	65,959
				2	66,432
				3	66,919
				TOTAL	199,310
185 A-10/CHE	Low Dimensional Magnetic Semiconductors: Understanding and Controlling Spin-Polarized Electron Transport in Mixed Metal Chalcogenides	University of New Orleans (Department of Chemistry)	Pierre Ferdinand Poudeu Poudeu		
	New Request		Contain Confidential/Proprietary Information? No	1	64,594
				2	60,111
				3	59,740
				TOTAL	184,445
186 A-10/BS	Regulation of Transcription by Co-repressors in Plants During Abiotic Stress	University of New Orleans (Department of Biological Sciences)	Vaniyambadi V. Sridhar		
	New Request		Contain Confidential/Proprietary Information? No	1	54,000
				2	55,000
				3	56,000
				TOTAL	165,000

NOI #	Title	Institution/Department	Principal Investigator	Duration (Yrs)	BoRSF Money Requested
187 A-10/BS	Automated Refinement of Near-Native Membrane-Protein Structure Models	University of New Orleans (Department of Computer Science)	Christopher M. Summa		
	New Request		Contain Confidential/Proprietary Information? No	1	40,000
				2	40,000
				3	40,000
				TOTAL	120,000
188 A-10/C/IS	Mapping Algorithms for High-Throughput Sequencing and Discovery of Exon Junctions	University of New Orleans (Department of Computer Science)	Christopher M. Taylor		
	New Request		Contain Confidential/Proprietary Information? No	1	57,068
				2	57,295
				3	57,523
				TOTAL	171,886

Total No. of Notices of Intent (NOIs) Submitted 188

Total First-Year Funds Requested \$10,808,375

Total Funds Requested \$28,341,015

Total First- Year Funds Available \$1,350,000