

FY 2010-11 NSF EPSCoR Pfund Proposals Received (listed alphabetically by Institution, PI Last Name)

BOR #	Name	Institution	Department
001	Bao , Huiming <i>Variation in sulfate flux in the Mississippi River Basin: untangling natural and anthropogenic influences</i>	Louisiana State University	Geology and Geophysics
002	Barbato , Michele <i>A novel performance-based methodology for mitigation of seismic pounding risk</i>	Louisiana State University	Civil & Environmental Engineering
003	Bodie , Graham <i>A Multitrait-multimethod validity assessment of the active-empathic listening and attitude of active listening scales</i>	Louisiana State University	Communication Studies
004	Busch , Konstantin <i>Scalable transactional memory scheduling</i>	Louisiana State University	Computer Science
005	Chan , Julia <i>Complex stannide intermetallics for thermoelectric applications</i>	Louisiana State University	Chemistry
006	Choi , Jin-Woo <i>Development of a microfluidic platform for in-line mammalian rare cell separation</i>	Louisiana State University	Electrical and Computer Engineering
007	DeLong , Kristine <i>Reconstructions of past climate from modern and fossil corals</i>	Louisiana State University	Geography and Anthropology
008	Devidreddy , Ram <i>Manipulation of adult stem cell differentiation in a thermally reversible hydrogel sheet</i>	Louisiana State University	Mechanical Engineering
009	Elder , Bret <i>Untangling top-down and bottom-up effects on host-pathogen interactions</i>	Louisiana State University	Biological Sciences
010	Elseifi , Mostafa <i>Evaluation of the thixotropy of asphalt binder modified with recycled asphalt shingles</i>	Louisiana State University	Civil & Environmental Engineering
011	Friedland , Carol <i>Detailed failure mode assessment for single family housing subjected to combined hurricane wind and storm surge</i>	Louisiana State University	Construction Management & Industrial Eng
012	Ge , Beilei <i>Tracking Campylobacter, Salmonella, and MRSA in Louisiana poultry farms</i>	Louisiana State University	Food Science

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013	Hah , Dooyoung <i>Carbon nanotube reinforced metal matrix composites for microelectromechanical systems (MEMS) applications</i>	Louisiana State University	Electrical & Computer Engineering
014	Hou , Aixin <i>Impacts of sediment slurry addition on microbial functions in rapidly subsiding brackish marshes</i>	Louisiana State University	Environmental Sciences
015	Kato , Naohiro <i>Isolation of Chlamydomonas reinhardtii mutants defective in the triacylglycerol transport</i>	Louisiana State University	Biological Sciences
016	Li , Xin <i>Surface and volumetric matching for forensic facial reconstruction from incomplete skulls</i>	Louisiana State University	Electrical & Computer Engineering/CCT
017	Liao , T. Warren <i>Supply chain inventory optimization via metaheuristic and event-driven evaluation module</i>	Louisiana State University	Construction Mgt and Industrial Engineering
018	Lu , Rui <i>Function of DRH-1 in worm antiviral immunity</i>	Louisiana State University	Biological Sciences
019	Maiti , Kanchan <i>A multidisciplinary approach for determining the residence time of water in Louisiana bays</i>	Louisiana State University	Oceanography & Coastal Sciences
020	Managan , Jane <i>Not just a laughing matter: performing Guadeloupean identities in Kréyòl comedy</i>	Louisiana State University	Geography and Anthropology
021	Martin , Michael <i>Simulation of organic nano-mechanical memory</i>	Louisiana State University	Mechanical Engineering
022	Moroney , James <i>The role of carbonic anhydrase in photosynthesis in Arabidopsis</i>	Louisiana State University	Biological Sciences
023	Nelson , Arnold <i>The effect of acute and chronic exercise upon adenylate kinase isoform mRNA expression in FG, FOG, and SO rat muscles.</i>	Louisiana State University	
024	Ondercin , Heather <i>Legislative careers in the 21st century: ambition, risk, and legislative behavior</i>	Louisiana State University	Political Science

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025	Peng , Lu <i>Investigating the impact of program optimization and parallelization on soft error reliability</i>	Louisiana State University	Electrical & Computer Engineering
026	Pettis , Gregg <i>The ecological role of Vibrio vulnificus exopolysaccharide phase variation in surface colonization of copepods</i>	Louisiana State University	Biological Sciences
027	Ragains , Justin <i>Photochemical arylation in the synthesis of natural and unnatural products</i>	Louisiana State University	Chemistry
028	Rubin , Boris <i>Integral transforms of multivariate tomography and statistics</i>	Louisiana State University	Mathematics
029	Srivastava , Ashok <i>Mixed-signal trusted hardware for defense, homeland, and security applications</i>	Louisiana State University	Electrical and Computer Engineering
030	Urbatsch , Lowell <i>Interactive Visual Identification (IVI) system for plants</i>	Louisiana State University	Biological Sciences
031	Wang , Wanjun <i>Preliminary study to develop a polymer based multiplex immunoassay microchip</i>	Louisiana State University	Mechanical Engineering
032	Wu , Yejun <i>A semi-automatic approach to thesaurus expansion</i>	Louisiana State University	School of Library and Information Science
033	Wu , Hsaio-Chun <i>Novel spectrum shaping technology for wireless cognitive networks</i>	Louisiana State University	Electrical & Computer Engineering
034	Yao , Shaomian <i>Identification of potential genes causing loss of differentiation capability in dental follicle stem cells (DFSC)</i>	Louisiana State University	Comparative Biomedical Sciences
035	Zhang , Guoping <i>Nanomechanics of cohesive sediment-biopolymer micro flocs</i>	Louisiana State University	Civil & Environmental Engineering
036	Zhou , Kemin <i>Modeling the rate-dependent hysteresis nonlinearity of a giant magnetostrictive actuator for precision control</i>	Louisiana State University	Electrical and Computer Engineering

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037	Erickson , Amy <i>Effect of oil spills on chemical defenses in mangroves</i>	Louisiana State University - Shreveport	Biological Sciences
038	Aime , M. Catherine <i>Investigation of a novel multipartite insect-fungus relationship in Guyana</i>	LSU Agricultural Center	Plant Pathology and Crop Physiology
039	Aryana , Kayanush <i>Enhancing the beneficial attributes of health beneficial bacteria using a novel approach</i>	LSU Agricultural Center	Animal Sciences
040	Bondioli , Kenneth <i>Induced pluripotent stem cells from Bovine somatic cells</i>	LSU Agricultural Center	School of Animal Sciences
041	Husseneder , Claudia <i>Nanoparticles for delivering protozoa-specific ligands into termite guts</i>	LSU Agricultural Center	Entomology
042	Piao , Cheng <i>Single molecule detection of cellulase enzymes and silanes in the cell walls of natural fibers</i>	LSU Agricultural Center	Calhoun Research Station
043	Stout , Michael <i>Evaluating resistance to insects in transgenic rice plants over- and under-expressing the OsMYC2 gene</i>	LSU Agricultural Center	Entomology
044	Aguilar , Erwin <i>Prospective observational pilot study to assess blood pressure control in End-Stage Renal Disease (ESRD) patients on hemodialysis under current standards of care</i>	LSU Health Sciences Center - New Orleans	Internal Medicine/Nephrology & Hypertension
045	Crabtree , Judy <i>Mouse xenograft model generation to support in vivo investigations of CARM1 function</i>	LSU Health Sciences Center - New Orleans	Genetics
046	Hollenbach , Andrew <i>Phosphorylation and the control of gene expression in melanocyte development</i>	LSU Health Sciences Center - New Orleans	Genetics
047	Hurley , Annette <i>Constraint-induced auditory therapy for aphasia</i>	LSU Health Sciences Center - New Orleans	Communication Disorders
048	Kelly , Ben <i>Regulation of translation elongation factor 2 by a molecular scaffold protein in Leishmania</i>	LSU Health Sciences Center - New Orleans	Microbiology, Immunology, & Parasitology

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049	Lee , Keunbaik <i>Analysis of incomplete longitudinal categorical data</i>	LSU Health Sciences Center - New Orleans	Public Health
050	Mandal , Diptasri <i>Germ-line copy number variation in high-risk African American families</i>	LSU Health Sciences Center - New Orleans	Genetics
051	Rubin , Scott <i>Linguistic effects in ON/OFF states of electrical stimulation of the associative subthalamic nucleus in patients with Parkinson's Disease</i>	LSU Health Sciences Center - New Orleans	Communication Disorders
052	Sturtevant , Joy <i>Fungal ubiquitination and growth</i>	LSU Health Sciences Center - New Orleans	Microbiology, Immunology, & Parasitology
053	Tseng , Tung-Sung <i>Using health information technology (HIT) to identify racial and ethnic disparities in smoking among cancer survivors</i>	LSU Health Sciences Center - New Orleans	Public Health
054	Turner , Robert <i>Evaluation of BioMARK asymmetries in a control population</i>	LSU Health Sciences Center - New Orleans	Communication Disorders
055	Crews , Niel <i>Iso-flux calorimetry: A proof-of-concept study</i>	Louisiana Tech University	Institute for Micromanufacturing
056	Edwards , Thea <i>Distribution and Physiology of Phytoestrogens</i>	Louisiana Tech University	Biological Sciences
057	Hindmarsh , Patrick <i>Development of biodiesel using an alternative carbon source</i>	Louisiana Tech University	Biological Sciences
058	Lvov , Yuri <i>Polymer/nanotube composite coating with enhanced strength for deep water applications</i>	Louisiana Tech University	Engineering
059	Paun , Mihaela <i>DNA microarrays segmentation methods</i>	Louisiana Tech University	Mathematics and Statistics
060	Strimbu , Bogdan <i>Development of an analytical framework for mixed-species stands</i>	Louisiana Tech University	School of Forestry

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061	Wang , Jay <i>Inception condition of compaction band in saturated porous rock of oil reservoir</i>	Louisiana Tech University	Civil Engineering and Construction Engineering
062	Wang , Shengnian <i>Label-free cell sorting by optical foces and microfluidics</i>	Louisiana Tech University	Chemical Engineering
063	Wasiuddin , Nazimuddin <i>Characterization of hole growth during dewetting of asphalt film</i>	Louisiana Tech University	Civil Engineering
064	Weiss , Leland <i>Novel MEMS-based thermal energy harvesting for sustainability</i>	Louisiana Tech University	Mechanical Engineering
065	Zivanovic , Sandra <i>Surface plasmon resonance for photovoltaic device efficiency augmentation</i>	Louisiana Tech University	Institute for Micromanufacturing
066	Garrity , Patrick <i>Spectroscopic measurement of electronic transport properties on baseline semiconducting materials</i>	Loyola University	Physics
067	Boggavarapu , Kiran <i>Classification of aluminum hydrides: richer and more exotic than boranes</i>	McNeese State University	Chemistry
068	Christian , Omar <i>Antioxidant and anti-inflammatory metabolites from Coccoloba uvifera (Seagrapes) and Crataegus opaca (Mayhaws)</i>	McNeese State University	Chemistry
069	Hoffman , Justin <i>Estimating geographic range limits and habitat preferences of newly elevated species of pocket gophers (genus Geomys) using ecological niche modeling</i>	McNeese State University	Biological and Health Sciences
070	Jackson , Kathyjo <i>Atrazine effects on corticosterone and glucose regulation in Xenopus laevis</i>	McNeese State University	Biological and Health Sciences
071	Sneddon , Joseph <i>Phytovolatilization of hexachlorobutadiene in soils from SWLA by Spartina alterniflora</i>	McNeese State University	Chemistry
072	Zhang , Ning <i>An erosion and sediment study of Lake Charles</i>	McNeese State University	Engineering

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073	Morrison , Christopher <i>Molecular programming in response to maternal obesity</i>	Pennington Biomedical Research Center	Neurosignaling
074	Fotie , Jean <i>Design and synthesis of ellagic acid analogs for their antimalarial activity, and the investigation of their interaction with malaria parasite's heme detoxification pathway</i>	Southeastern Louisiana University	Chemistry and Physics
075	Li , Zhengrong <i>A novel scheme to remove oil from contaminated beaches using ultrasonication</i>	Southeastern Louisiana University	Chemistry and Physics
076	Ma , Junkun <i>Numerical study of the thermal properties of copper tungsten with copper via composite</i>	Southeastern Louisiana University	Computer Science and Industrial Technology
077	Massawe , Ephraim <i>Scientific and information needs assessment study in state programs to regulate exposures to nanomaterials/nanoparticles during environmental remediation</i>	Southeastern Louisiana University	Computer Science and Industrial Technology
078	Miller , Richard <i>Distribution of ergot alkaloids among morning glories</i>	Southeastern Louisiana University	Biological Sciences
079	Bai , Shuju <i>Predicting the substrate-protein interactions in 8R-lipoxygenase</i>	Southern University	Computer Science
080	Gwee , Nigel <i>Development of a meta-heuristic algorithm system to solve NP-hard problems</i>	Southern University	Computer Science
081	Henry , Laurence <i>Synthesis and investigation of magnetic and transport properties of some half-metallic oxide nanoparticles</i>	Southern University	Physics
082	Jones , Chanika <i>Cyber conflicts between the US and resource poor environments in Sub-Saharan Africa – an investigation into psychosocial and neo-institutional causation factors</i>	Southern University	Criminal Justice
083	Lam , Puiman <i>Statistical physics of DNA and polymers</i>	Southern University	Physics
084	Landor- , Jarrett <i>Perceptions of student learning across the dimensions of synchronous, asynchronous, and face-to-face instruction</i>	Southern University	Educational Leadership

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085	Malozovsky , Yuriy <i>Predictive computations of electronic properties of materials</i>	Southern University	Physics
086	Mbarika , Victor <i>A Theoretical Investigation of "Low-Tech" Information Technology Use for Healthcare Delivery in Resource-Poor Settings of Rural Louisiana and Sub-Saharan Africa</i>	Southern University	SU-ICITD
087	Reese , Terrence <i>Worm algorithm simulation of para-positronium</i>	Southern University	Physics
088	Salam , Md Abdus <i>Enhancement of energy-efficient data aggregation algorithm for wireless sensor networks</i>	Southern University	Computer Science
089	Vincent- , Rachel <i>Toward the molecular dynamics simulation of Ta₂O₅ Thin Films</i>	Southern University	Computer Science
090	Zhao , Guang-Lin <i>Wideband microwave absorbers from carbon nanotubes-polymer composites</i>	Southern University	Physics
091	Kim , Heon <i>New types of multiplicative relations between Gauss sums</i>	Southern University - New Orleans	Natural Sciences - Mathematics
092	Karubian , Jordan <i>The impact of multi-modal signals on avian hybrid zone dynamics</i>	Tulane University	Ecology & Evolutionary Biology
093	Richards- , Corinne <i>Effects of anthropogenic habitat disturbance on the aposematic signals of poison frogs</i>	Tulane University	Ecology & Evolutionary Biology
094	Schrader , Laura <i>Comparison of metabolites in the hippocampus produced by chronic and acute stress</i>	Tulane University	Cell and Molecular Biology
095	Sulkes , Mark <i>Detection of chemical intermediates from nonthermal plasma remediation of volatile organic compounds</i>	Tulane University	Chemistry
096	Taylor , Caroline <i>The use of state of the art technologies to determine migration routes and winter movements of a migratory bird</i>	Tulane University	Ecology and Evolutionary Biology

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097	Chlan , Caryl <i>Vicilin genes from wild Louisiana legumes: A system to study novel properties of seed storage proteins</i>	University of Louisiana at Lafayette	Biology
098	Fekih , Afef <i>Fault tolerant control design of wind Turbine systems</i>	University of Louisiana at Lafayette	Electrical and Computer Engineering
099	Gang , Daniel <i>Novel hydrophobic silica adsorbent development for in situ burning of oil spills from sea water</i>	University of Louisiana at Lafayette	Civil Engineering
100	Houston , Louis <i>Visualization tools for scanning transmission ion micro tomography</i>	University of Louisiana at Lafayette	Physics
101	Khattab , Ahmed <i>Development of smart polymer-carbon nanofibers modified hot mix asphalt</i>	University of Louisiana at Lafayette	Industrial Technology
102	Liu , Yucheng <i>Development of warpage functions to model thin-walled beam's cross-sectional warping during dynamic buckling</i>	University of Louisiana at Lafayette	Mechanical Engineering
103	Pan , Zhongqi <i>Frequency domain PMD monitoring and compensation in high-speed coherent systems with digital signal processing</i>	University of Louisiana at Lafayette	Electrical and Computer Engineering
104	Wang , Yi-Hong <i>Development of SSR markers for mapping saccharification yield in sorghum</i>	University of Louisiana at Lafayette	Renewable Resources
105	Bhattacharjee , Joydeep <i>Carbon Sequestration potential of high altitude wetlands in the Himalayas</i>	University of Louisiana at Monroe	Biology
106	El-Giar , Emad <i>Electropolymerized polyphenols coatings for corrosion protection of steel alloys</i>	University of Louisiana at Monroe	Chemistry
107	Horace , Alexis <i>Impact of mitochondrial genetic variance on the auto-regulation of L-Carnitine in patients with Human Immunodeficiency Virus</i>	University of Louisiana at Monroe	Clinical and Administrative Pharmacy
108	Kaddoumi , Amal <i>Investigation of highly active ligands of PXR: from in silico to in vitro studies</i>	University of Louisiana at Monroe	Basic Pharceutical Sciences

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109	Liu , Yong-Yu <i>A role of ceramide in the RNA-protein interaction and the RNA splicing of p53</i>	University of Louisiana at Monroe	Basic Pharmaceutical Sciences
110	Meyer , Sharon <i>Association of crude oil components in situ with adverse biological effects</i>	University of Louisiana at Monroe	Toxicology
111	Wiedemeier , Allison <i>Analysis of cortical microtubule organization in Arabidopsis thaliana tumors initiated by Agrobacterium tumefaciens infection</i>	University of Louisiana at Monroe	Biology
112	Lailvaux , Simon <i>Pedigree reconstruction and animal model estimation of the G matrix using microsatellites in Anolis carolinensis</i>	University of New Orleans	Biological Sciences
113	Laird , Robert <i>A trip to the DMV can offer insight into autonomy development</i>	University of New Orleans	Psychology
114	Malkinski , Leszek <i>Spiral and helical magnetic micro- and nano-structures</i>	University of New Orleans	Physics/AMRI
115	Tarr , Matthew <i>Novel nanoarchitectures for improved dye sensitized solar cells</i>	University of New Orleans	Chemistry
116	Winters-Hilt , Stephen <i>Event transduction analysis of individual DNA interactions with HIV integrase</i>	University of New Orleans	Computer Science
117	Zhu , Dongxiao <i>An informatics framework for joint analysis of differential expression and differential splicing using RNA-seq data</i>	University of New Orleans	Computer Sciences
118	Ali , Mehnaaz <i>Aptamer scaffolds for biomarker detection with a co-factor modulated enzyme signaling system</i>	Xavier University	Chemistry
119	Davenport , Ian <i>Oogenesis in the shortspine spurdog Squalus mitsukurii (Squaliformes)</i>	Xavier University	Biology
120	Mei , Hua <i>Diazonium perfluoroarylsulfonylimide monomer for proton exchange membrane fuel Ccells</i>	Xavier University	Chemistry