Funded Proposals: Pilot Funding for New Research (Pfund)

(alphabetical by institution, PI last name)

Institution/Department	Principal Investigator	Title	Funded Amt.
Louisiana State University Electrical and Computer Engineering	Theda Daniels-Race	Exploration of novel electronic hybrid (organic-inorganic) nanoscale phenomena	$12000
Louisiana State University Geology and Geophysics	Brian J. Darby	Where does the Altyn Tagh fault end? Constraints from the Alxa region, north-central China	$11400
Louisiana State University Computer Science	Arjan Durresi	Scalable broadcast protocol for wireless sensor and actor networks	$12000
Louisiana State University Geology and Geophysics	Annette S. Engel	Exploratory research to understand the biogeography and evolutionary history of novel “Epsilonproteobacteria” from terrestrial sulfur springs	$11960
Louisiana State University Pathobiological Sciences - Vet Med	Kevin R. Macaluso	Interactions between Rickettsial endoysmbionts and Ixodid ticks	$12000
Louisiana State University Civil & Environmental Engineering	Ayman M. Okeil	Developing innovative partially continuous bridges	$12000
Louisiana State University Mechanical Engineering	Su-Seng Pang	Identification of damage in composite structures using non-destructive dynamic testing	$11691
Louisiana State University Electrical and Computer Engineering	Ashok Srivastava	Nanocantilever sensors for high-sensitivity chemical testing	$12000
Louisiana State University Geology and Geophysics	Jonathan Tomkin	Numerically modeling feedbacks between climate, erosion, and tectonics in the Patagonian Andes	$11450

Louisiana State University Civil and Environmental Engineering	Linbing Wang	Multiscale simulation of pavement performance using digital specimen and digital test technique	$12000
Louisiana State University Electrical and Computer Engineering	Bingqing Wei	Flow sensors featuring coupled electro-mechanical properties of carbon nanotubes	$12000
Louisiana State University Electrical and Computer Engineering	Shuangqin Wei	Diversity-multiplexing gain tradeoff achieving code for asynchronous MIMO systems	$12000
Louisiana State University - Shreveport Biological Sciences	Tara Williams-Hart	The regulation of ion transport by protein phosphates type 1 in *Saccharomyces cerevisiae*	$12000
Louisiana Tech University Biomedical Engineering	Donald T. Haynie	Bionanosystems engineering: peptide films & cells	$12000
Louisiana Tech University Institute for Micromanufacturing	Sandra Selmic	Semiconductive polymers as alternative energy resources	$12000
Louisiana Tech University Institute for Micromanufacturing	Rastko R. Selmic	Sensors failure detection and mitigation using neural networks	$10400
Louisiana Tech University IfM/School of Biosciences	Yuri Voziyanov	Engineering site-specific recombinase to excise HIV protovirus	$12000
Loyola University Physics	Armin Kargol	Control of voltage-gated ion channels with nonequilibrium voltage fluctuations	$12000
LSU Agricultural Center Animal Sciences	Kenneth R. Bondioli	Somatic stem cells for porcine nuclear transfer	$12000
LSU Agricultural Center School of Renewable Natural Resources	Y. Jun Xu	Identifying nitrogen removal capacity of the Atchafalaya River Basin	$11867

LSU Health Sciences Center - New Orleans Pediatrics	Renee V. Gardner	A study of the significance of arginine deficiency on immune function in sickle cell disease	$12000
LSU Health Sciences Center - New Orleans Microbiology, Immunology, & Parasitology	Max P. Oeschger	Identifying genes with the potential to encode new amino acids	$11824
LSU Health Sciences Center - New Orleans Pharmacology	Dennis Paul	Lipid raft clustering of receptors: a novel mechanism for neurotransmitter interaction	$12000
LSU Health Sciences Center - New Orleans Pediatrics	Duna Penn	Effect of carnitine deprivation on cardiac response to stress	$12000
LSU Health Sciences Center - New Orleans Endodontics - School of Dentistry	Nikhil Sarkar	Bioactive root canal filling materials	$12000
LSU Health Sciences Center - New Orleans Medicine	Guoshun Wang	Engineering stem cells for cystic fibrosis therapy	$12000
Southern University Electrical Engineering	Elhag H. Shaban	Microstructure X-ray gas detector laboratory	$12000
Tulane Health Sciences Center Environmental Health Sciences	Thomas C. Bishop	Pilot study of nucleosome positioning signals: molecular models	$12000
Tulane Health Sciences Center Nephrology Section SL-45	Timothy G. Hammond	A terrestrial microgravity model for cell cultures using magnetic levitation	$12000
Tulane University Physics	Zhiqiang Mao	Studies of novel quantum phenomena in ruthenates	$12000
Tulane University Mechanical Engineering	Lucy Zhang	Numerical investigation of droplets on nanopatterned surfaces	$12000

University of Louisiana at Lafayette Physics	Natalia Sidorovskaia	Facilitation of biomedical acoustics research at the Physics Department of UL Lafayette	$7800
University of Louisiana at Lafayette Center for Advanced Computer Studies	Hongyi Wu	CDMA-based mesh wireless networks	$9600
University of New Orleans Biological Sciences	Patrice Boily	Validating the use of antipyretics to investigate the functional significance of stress-induced fever	$12000
University of New Orleans Electrical Engineering	Huimin Chen	A novel maneuver detection technique using doppler radar for multitarget surveillance	$12000
University of New Orleans Computer Science	Yixin Chen	Content-based image indexing and retrieval: a geometric approach	$12000
University of New Orleans Computer Science	Jing Deng	Preventing selfishness in mobile ad hoc networks	$12000
University of New Orleans Chemistry	Paul Hanson	Research at the interface of bio- and nanotechnology	$12000
University of New Orleans AMRI/Chemistry	Weilie L. Zhou	Patterned metal oxide nanowire arrays for high sensitive gas sensors	$11880
Xavier University Biology	Charles D. Bell	Phylogeny and biogeography of Valerianaceae	$11072