

Summary of Grants and Contracts - Department of Physics - SUBR 2005 -2011

Name	Title	Funding Agency	Amount
Diola Bagayoko	LS-LAMP (Phase III - \$5 Million, 2005-10, NSF); Senior LS-LAMP (\$5Million, 2001-15, NSF), Timbuktu Academy (\$700k, 2005-10, ONR and \$950K, 2005-10, ONR), EM-BHSSC (\$320k, 2006-09, ExxonMobil) , SGS-Timbuktu Academy (\$50K, 2010-11, LaSPACE), PIPELINES (\$420k, 2007-09, NASA), Physics and Math at the Timbuktu Academy (497k, 2007-10, NSF), Bridge to the Doctorate, with Co-PIs I. Warner and S. Pang at LSU (\$3.948 Million, 2005-08, NSF), LASIGMA (\$1.888 Million, 2010-15, NSF and Board of Regents), 21st Century CLC with Janet Reed as Co-PI (\$1.8 Million, 2010-13, US ED Through LA Dept. Education)	See funding agencies on the left. Out of the Total of \$20,573,000 , the sum of \$13,851,000 is spent from sprint 2005 to sprint 2011. The remainder of \$6,722,000 is to be spent from fall 2011 to 2015	\$13,851,000
Edward Doomes	Educational Expansion and Research Enhancement with a Dispersive X-ray Fluorescence Spectrometer	Louisiana Board of Regents	\$133,385
	Advancing the Southern University Partnership with LIGO in Materials Research and Science Education	National Science Foundation	\$200,000
	The Enhancement of X-ray Powder Diffractometer Capabilities in the Material Sciences for Research and Teaching	Louisiana Board of Regents	\$80,000
Ali Fazely	The IceCube Project	National Science Foundation MRE Grant	\$1,045,000
	Data Analysis for ATIC	NASA	\$300,000
Laurence Henry	Modes of Adaptation, Resistance, and Survival for Life Inhabiting a Freeze-dried-radiation- bathed Environment (MARS LIFE)	NASA	\$25,000
	Correlative Radio Observations of Cosmic Gamma-Ray Sources: A Partnership Program in Astronomy and Astrophysics between Southern University and the University of Massachusetts	NSF	\$159,485

Pui Man Lam	Research in Statistical Physics of DNA Unzipping	Petroleum Research Fund of the American Chemical Society	\$48,000
	Statistical Physics of Single Molecule Biopolymers and Epitaxial Growth	Board of Regents Support Fund	\$164,388
	Research on Statistical Physics of DNA and Polymers	LINK, Board of Regents Support Fund	\$7,000
Stephen McGuire	Advancing the Southern University Partnership with LIGO in Materials Research and Science Education	National Science Foundation	\$300,000
	LIGO Science Education Center Partnership (SUBR)	National Science Foundation	\$1,050,000
	Materials Science, Astronomy and Outreach: A Collaborative Program of Research and Science Education between Southern University and LIGO	National Science Foundation	\$603,824
	Advanced Materials for Information Systems: Magnetic and Optical Materials	Louisiana Board of Regents Governor'	\$195,700
Terrence Reese	Faculty and Student Team	National Science Foundation	\$23,000
	Faculty and Student Team	National Science Foundation	\$25,500
	Faculty and Student Team	National Science Foundation	\$25,500
	Faculty and Student Team	National Science Foundation	\$25,500
	Program to Increase the Pursuit of Education and Learning In Engineering and Sciences; Iowa State [\$419,954]	National Science Foundation	
Bobba Rambabu	Energy Conversion and Storage Devices: Renewable Energy Research and Education,	DOE-NREL-MURA	\$245,000
	Nanocrystalline Electrodes and Electrolytes for Hybrid Power and Energy Devices for U.S-Army,	U.S-DOD-ARO	\$250,000
	Nanoionic and Nanocomposite Polymer Electrolyte Membranes and Catalysts for Fuel Cells and Hydrogen Energy	U.S-DOD-AFOSR	\$536,130

Jin Ton Wang	Studies of Relaxor and Ferroelectromagnetic materials”	Office of Naval Research, US Navy	\$492,391
	Studies of Relaxor Ferroelectric Oxide Perovskites for Energy Conversion and Storage	Office of Naval Research, US Navy, Grant	\$449,985
Guang Lin Zhao	New High Efficiency Thermoelectric Materials for Thermal Energy Harvesting	National Science Foundation	\$299,400
	Thermal Transport Measurements of Novel Thermoelectric Materials and Related Systems	Louisiana State Board of Regents	\$24,400
	Study of Electromagnetic Wave Absorption Properties of Carbon Nanotubes-Based Composites	Air Force Office of Scientific Research	\$750,000
	MRI-R2: Acquisition of a Transmission Electron Microscope (TEM) for Research, Research Training, and Education at Southern University a Research Undergraduate Institution (RUI) [\$1,000,000]	National Science Foundation	
	Louisiana Alliance for Simulation guided Materials Applications (La-SigMA) [\$1,888,169]	National Science Foundation	
	Exploration of Novel Thermoelectric Materials for Thermal Energy Harvesting and Conversions	Louisiana State Board of Regents	\$10,000
	Acquisition of Novel Thermoelectric Materials Research Equipment	NSF and SUBR SMART UP Project	\$49,600
	Ab-Initio Predictive Computation and Simulation of the Properties of Transition Metal Cobalt Nanoparticles	Center for Information Technology Innovation, SUBR	\$36,028
	NER: Integration of Ab-Initio Computation with Large Scale Molecular Dynamics Simulation for Nanomaterials Research	National Science Foundation	\$99,982
TOTAL			\$21,505,198