

simplifying Research



Office of Sponsored Programs

# Grants Newsbrief Fiscal Year 2011-12



Desmond Fernandez, Research Assistant



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## ***From the Director...***

Fiscal year 2011-2012, what a year! With so many challenges, Southern University (SU) researchers still survived. Even with the overwhelming obstacles, our faculty who has a heart for research, stayed in the race. For that, we say, "Thank You".

As you peruse the 2012 Newsbrief, you will see the common thread amongst the diversity of research, which is the passion of our researchers. The Office of Sponsored Programs (OSP) has selected a few projects to highlight the wide array of research and those that had opportunities for student research. Thanks to the faculty researchers who understand the impact of students' involvement in research.

As the SU community continue to connect globally, with new adventures into research, our vision will be one of excitement to move forward with our mission. OSP will continue to be the catalyst for faculty to engage in scholarly research and assist students. It is a great privilege to advocate for and serve our researchers at this great institution, while we help to maintain and expand our research environment.

The discoveries and opportunities to change the world are still at the forefront of research and will remain. Together we must continue to pursue externally-funded research and economic development opportunities in these uncertain economic times. The aim is to grow research in areas that contribute to technology transfer and enhance faculty productivity beyond classroom teaching. OSP hope the university community remain optimistic and make research a priority.

We are here to help you soar to new heights!

***Norma J. Lemond-Frank***

# *The Louisiana Small Business Development Center at Southern University and A&M College*

*Will Campbell, Jr., Director*

**The Louisiana Small Business Development Center (LSBDC)** has been making strides and major impact in our local community. The LSBDC at Southern university contributes to the economic development of the state through relationships with small and minority businesses as well as through outreach activities which foster entrepreneurial growth. In the seven parishes, which the LSBDC at Southern University serves, assistance in writing business plans, creating financial projections, gathering marketing research and plans, loan packaging, business training and free confidential one on one consultation with highly trained business consultants is offered. Another focus for the LSBDC at Southern University is procurement services and contracting helping small business prepare for city, state and federal contracting opportunities. Also we deal with special interests groups with international trade, women and veteran own businesses.

## *Living Solutions Challenges:*

- Needed a business plan to help secure a bank loan.
- Needed more entrepreneurial and business training.
- Needed financial analysis and marketing consulting.

## *LSBDC Solutions:*

- Developed a business plan to help secure bank loan to purchase equipment.
- Helped prepare a financial analysis.
- Helped introduce Merrick Young to the Baton Rouge business community.

## *The Impact:*

- Secured \$500,000 loan
- Projected to increase revenue by \$210,000
- Created six new jobs



## *Merrick Young*

The Louisiana Small Business Development Center at Southern University helped entrepreneur Merrick Young secure a \$500,000 loan for his first construction project with Living Solutions, LLC.



Shannon Collins and Karen Koprowski are best friends. So, when Koprowski mentioned her desire to go into business for herself with the unconventional idea of a hot dog cart, Collins was ready to jump in with both feet. The Louisiana Small Business Development Center helped entrepreneurs Shannon Collins and Karen Koprowski develop a comprehensive business plan and a loan package to present to the lenders.

The two women launched Nice Dog Hot Dogs, which serves Hebrew National sausages on sourdough hoagie buns and served with signature chili sautéed onions, peppers, sauerkraut and more. With prices around \$5 for a hearty hot dog, the pair has been doing great business every Monday, Wednesday and Friday, and weekends wherever they can park their “Happy Hot Dog Cart” Having our food cart allows us to experience these aspects and hopefully bring some joy to your day as well!



*Eric Porter*  
Owner  
ComNet, LLC

**ComNet, LLC** was founded in 1998 as an IT Consultant and eventually diversified to the field of construction in 2005. Louisiana Commercial Licensed General Contractor specializing in the design and building of churches, municipal buildings, early learning schools and demolition of structures.

Eric Porter came to the Louisiana Small Business Development Center at SU for assistance. The LSBDC at SU assisted Eric Porter in creating a business proposal for securing a new contract with Volkert and a housing project in New Orleans creating seven new jobs. LSBDC assisted in the preparation of a loan package, in the amount of \$750,000, for facility operations.





**Caliente Mexican Craving**, with its distinct and innovative menu, is the restaurant-of-choice for a great Mexican meal, delicious drinks, and an inviting dining experience! Caliente's unique selection of dishes includes Mexican Fusion Cuisine, a mouth-watering blend of native culinary traditions from Mexico and local South Louisiana flavors.

Open since December 2007, Caliente continues to be Central City's Premiere Mexican restaurant, consistently providing a welcome atmosphere for family, friends, and community. Ricardo Barraza, owner of Caliente Mexican Craving had a desire to open a second location in Louisiana. Ricardo came to the Louisiana Small Business Development Center at SU to develop financial projections, demographics, and a business plan for his new location. Caliente Mexican Craving created 30 new jobs, and Ricardo was able to secure a \$80,000 loan for his new restaurant.

**Training:** The LSBDC at Southern University partners with local organizations to offer free monthly training for small business owners to assist them in their area of needs.

The Small Business Education Series (SBES) annual training kicked off in January, and consisted of a series of three major educational sessions. The SBES presented information by area experts on aspects of running a business. Session topics ranged from government procurement opportunities and the effective use of social media to business planning, securing loans and preventing fraud. Over 80 business owners attended the SBES.



The LSBDC partnered with Accion for a training seminar on Credit entitled "Understanding Personal and Business Credit".

Will Campbell, Jr. (pictured left) shared valuable information to the small business owners. Topics included: What is credit; How to maintain your credit; and What lenders look for.



Many individuals and business owners have great ideas but are unaware of the process to make it happen. The LSBDC is the center that offers free services and training for small businesses. The Louisiana Small Business Development Center at Southern University accomplishments included: counseling 278 businesses, creation of 68 jobs, capital infusion of \$3,166,000, training of 545 people and assistance in eight start-up businesses.



L-R: Dr. Zhou Wang, Dr. Guang-Lin Zhao, Juan Arredondo & Robert Florida

## *"Study of Electromagnetic Wave Absorption Properties of Carbon Nanotubes-Based Composites"*

*Dr. Guang-Lin Zhao*

**"Study of Electromagnetic Wave Absorption Properties of Carbon Nanotubes-Based Composites"** is funded by Air Force Office of Scientific Research. Dr. Guang-Lin Zhao, Professor in the Department of Physics, is the Principal Investigator.

Less weight, excellent mechanical properties and high efficiency in absorbing electromagnetic (EM) wave make carbon nanotubes (CNTs) composites attractive for microwave technology applications.

The research focus of the project is on synthesizing and characterizing multi-walled carbon nanotubes (MWNTs)-polymer composites and understanding the microwave absorption properties of the fabricated composite samples.

The researchers of the project fabricated six groups of MWNTs-epoxy composite samples. The weight percentages of MWNTs are in the range of 1-10%. The researchers used a microwave resonant cavity (MRC) method to measure the microwave properties of the samples around 8.43 and 9.97GHz.

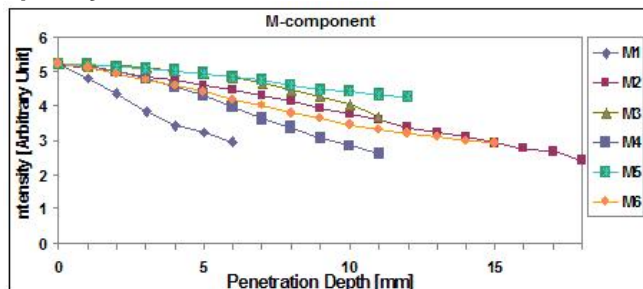
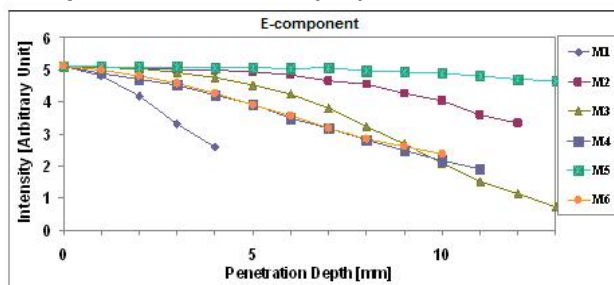
The results indicated that in general, the MWCNTs with smaller outside diameters (ODs) have higher microwave absorption efficiency than the large diameter ones. In addition, the microwave absorption efficiency of the CNTs was strongly affected by the morphologies of MWCNTs in individual bundles.

Researchers of this project produced six publications in the past two years including:

(1) Z. Li, Z. Ye, J. A. Roberts, and G. L. Zhao, "Measurements of Electromagnetic Wave Absorption Properties of Carbon Nanotubes-Epoxy Composites at Microwave Frequencies around 8.43GHz", *Journal of Applied Physics*, 110, 074107 (2011);

(2) Ye, Z. Li, J. A. Roberts, P. Zhang, J. T. Wang, and G. L. Zhao, "Electromagnetic Wave Absorption Properties of Carbon Nanotubes-Epoxy Composites at Microwave Frequencies", *Journal of Applied Physics*, Vol. 108, 054315 (2010). Research funding, research publications and student research training from the project substantially enhanced the research capabilities of Southern University and A & M College.

The figures present effective attenuations of the electric and magnetic fields of six groups (M1-M6) of MWNT composite samples with the same (7%) MWNT blend; EM wave frequency at 9.968 GHz.



**Note:** Sample group M1 (MWNT outside diameters (OD) at 8-15nm); M2 (50-80nm); M3 (30-50nm); M4 (20-30nm); M5 (<8nm); and M6 (10-20nm).

### **How It Works:**

When the sample drives into MRC, EM wave intensity is reduced due to the EM absorption of the sample.

### **Main Findings:**

- (1) The maxima of EM wave absorptions for the six groups of the samples were all around 7% (weight percentage) of MWNTs
- (2) Sample group M1 shows the highest performance of the EM wave absorption.



# *Raw Crawfish and Crab Waste Materials – Is it a Trash or Treasure?*

## *Dr. C. Reuben Walker*

Dr. C. Reuben Walker serves as the Program Leader of Agricultural Sciences. He is a Louisiana Tech University and Oregon State University graduate. Nevertheless, he bleeds blue and gold. He has a PhD. in Animal Breeding with minors in Statistics and Poultry Management. His number one focus is students. His motto, “be a better person today than you were yesterday.” The focus on crawfish and crab waste was started by craw fishing with Dr. Walker’s father-in-law in the early 1990’s. Dr. Walker’s father-in-law introduced him to harvesting crawfish the “Creole Way.” Wading in a crawfish pond, in hip boots, a tube and stick were memorable for a North Louisiana native.

Dr. Walker views his works on aquaculture waste is complementary to LSU focus on aquaculture production. Recently, Dr. Walker led a research team as the Principal Investigator with Drs. Patricia Meyinsse, Kit Chin, Aloyce Kaliba, Yemane T. Ghebreyessus and Ghirmay Ghebreyesus on a research grant submitted to the Louisiana Board of Regents Support Fund within the Industrial Ties Research Subprogram. The proposal was rank 1<sup>st</sup> among 33 grant proposals submitted in this category.

The proposal is entitled, “Production of Niche Marketing Assessment of Aquaculture Waste in Organic Production.” The proposed research is a collaboration between Southern University – Baton Rouge, Southern University Agricultural Research and Extension Center (SUAREC) and several industry partners.

The focus of the research project is to explore drying processes for raw aquaculture waste (crawfish, crab and shrimp) and converting it into meal products. Dr. Walker stated that his research expands upon the research efforts of the late Dr. Samuel Myers (retired professor of LSU). Finding viable uses of aquaculture waste have a potential to impact Louisiana economy,” he stated. Why? Louisiana ranks 1<sup>st</sup> in the nation in aquaculture production (crawfish, crab and shrimp).



Yet we do little with the waste of these raw waste materials. The testing of low input processes for using crawfish and crab waste materials are better than dumping the raw waste materials in our landfills. Our research approach is consistent with the State of Louisiana efforts in finding ways to enhance economic development via value added products from agricultural commodities in Louisiana.

It is the research team’s view that, if over \$307 million can be generated from approximately 15% of the crawfish, 30% of crabs, and 40% of shrimp, respectively. It can be reasoned that potentially significant dollars can be realized if we can use the balance of the crawfish, crab, and shrimp that is classified as waste each year. Using the waste should be an economically and environmentally safe way to help create additional jobs, provide a new revenue stream, and provide low-cost meal products that can be used as a livestock protein, mineral and methionine source, and fertilizer.

Over the years, stakeholders’ interest has come from Louisiana, Texas, Mississippi, Wisconsin, New York, Indiana, Massachusetts and Toronto, Canada.

Several years prior, Dr. C. Reuben Walker patented an aquaculture waste process. It was Southern University-Baton Rouge and SUAREC 1<sup>st</sup> patent. Dr. Walker stated that soon he hope to file a provisional patent on an apparatus he called the “Craw-Jag,” which is apparatus for drying aquaculture waste (crawfish, crab and shrimp).

If dried cow manure is marketed in some stores in Louisiana, why not crawfish, crab and shrimp meals? A constant need exists for lowering the cost of agricultural production. These products serve a dual purpose as a low cost organic fertilizer and feed ingredients. The meals of these waste aren’t new; it is just we in Louisiana do not market the products despite the fact that the state produce the largest amount of these raw waste materials.



*L-R: Drs. Patricia Meyinsse, Kit Chin, Aloyce Kaliba & C. Rueben Walker*





*L-R: Drs. Ebrahim Khosravi & Shuju Bai*

## *Developing a High Performance Data Processing Laboratory*

*Dr. Shuju Bai*

The Computer Science Department at Southern University and A&M College offers courses related to data managing, data mining, data processing, and image processing. To enhance the teaching and research capability, the department proposes to develop a high performance data managing, data processing, data mining and image processing laboratory. This will strengthen the capability of Southern University in educating minority students in engineering and computer science, and doing research in related areas.

The laboratory will consist of hardware (servers, workstations, network printer) and software (Oracle 11g, Matlab, Gaussian, MySQL) which will facilitate courses and research. Both undergraduate and graduate students can use the laboratory to study courses related to database management systems, data mining, data processing, image processing, and signal controlling and processing. Furthermore, the students and professors can employ this laboratory to implement their research projects in related areas. This enhancement will overcome the weakness of the Computer Science Department in hardware and software support for related courses.

The laboratory will provide a safe, secure, convenient, and reliable working environment to support instructors, students, and researchers for courses and research. By this enhancement, it is anticipated that the enrollment in the Computer Science Department will increase. In addition, this laboratory can be used by other related departments at Southern University such as Department of Electrical Engineering, Department of Electronics Engineering Technology, Department of Mechanical Engineering, and the College of Business. Research in signal processing and communication processing can also be conducted in the laboratory. The laboratory's functions will be fully documented. User manual, laboratory introduction, technical support will be offered at the completion of the project.



# *Path to Financial Independence Project*

*Dr. Alma Thornton*



**PTFI  
Collaborators**

The Southern University Center for Social Research received a \$750,000 award from the Norflet Progress Fund. Directed by SU Law Center Chancellor, John Pierre and Center Director, Alma Thornton, the Path to Financial Independence Project (PTFI) is a collaboration of 32 Historically Black Colleges and Universities (HBCUs). The Norflet Progress Fund was established by the settlement of the Norflet case, a historic class action civil rights lawsuit brought on behalf of African-Americans who challenged allegedly discriminatory practices by John Hancock Life Insurance during the early 1900s. The PTFI project provides financial education, free income tax preparation and wealth promoting activities for university students and staff and community residents.

Collaborating institutions include: Southern University and A&M College (Coordinating Center); Alabama State University; Alcorn State University; Coppin State University; Dillard University; Grambling State University; Florida A&M University; Hampton University; Harris-Stowe State University; Hinds Community College; Howard University; Jackson State University; Lawson State Community College; Lincoln University; Miles College; Morgan State University; North Carolina A&T University; North Carolina Central University; Prince George's Community College; Prairie View A&M University; Rust College; St. Philips College; South Carolina State University; Southern University Law Center; Southern University at New Orleans; Southern University at Shreveport; Stillman College; Tennessee State University; Tougaloo College;

University of Maryland Eastern Shore; Virginia State University; West Virginia State University; Xavier University and Internal Revenue Service.

During the 2012 tax filing season, the collaborative completed nearly 8,000 individual tax returns resulting in over \$14.1 million in tax refunds, \$2.2 million in child tax credits, \$5.1 million in earned income tax credits, and nearly \$1 million in education tax credits. Southern University System institutions including SU Law Center, SUNO and SUSLA completed 539 individual tax returns resulting in nearly \$1 million in total refunds to students, staff and community residents.





## *S.U. Students Dominate Ag Research Paper Competition*

*Dr. Patricia Meyinsse*

Southern University students earned first, second and fourth place position in the oral undergraduate research competition at the 27<sup>th</sup> annual Minority in Agriculture, Natural Resources and Related Sciences (MANRRS) Conference held in Atlanta. The winning Southern students, called the Ag STARS (Shaping Tomorrow's Agricultural Research Scientists), were chosen from a field representing 14 teams, including those from Oregon State University, Pennsylvania State University, Ohio State University, University of Maryland-Eastern Shore, Fort Valley State University and South Carolina State University. The winning paper was titled: "An Empirical Analysis of Factors Influencing Gasoline Consumption in the United States." The second place paper was titled: "Food Label Use and Perceptions of Weight Status among Selected Group of University Students."

The 1<sup>st</sup> place team members were: Delane Ross, a junior Animal Science major from Woodville, MS; Karl Harnsberry, junior, Agricultural Economics, Opelousas, LA; Domicka McKeey, junior, Plant and Soil Sciences, Zachary, LA; and Shaina Craige, junior, Animal Science, Eight Mile, AL. The 2<sup>nd</sup> place group included Andrea Bridgewater, junior, Animal Science, Tallulah, LA; William Lavergne, agricultural economics, Opelousas, LA; Andria Smith, sophomore, Agricultural Economics, Salina, KS; and Alex Ward, freshman, Agricultural Economics, Newellton, LA. Finishing 4<sup>th</sup> were Lillian Profit, junior, Animal Science, Monroe, LA; and Patience Muse, sophomore, Agricultural Economics, Greensburg, LA. Their paper was titled: "Measuring the Levels of Financial Literacy among College Students."

Ag STARS members must maintain a cumulative GPA of 2.50 and above and must be majoring in or intend to major in agricultural economics, animal sciences, or plant sciences. Each participant is required to attend weekly mentoring sessions and, in turn, receive a \$1,000 stipend per semester. The program's primary goal is to use interdisciplinary research in the food and agricultural sciences to enhance participants' critical-thinking, analytical, writing, and oral communication skills. The Ag STARS Program is funded by a grant under the U.S. Department of Agriculture's Capacity Building Grant Program. Dr. Patricia E. McLean-Meyinsse is the principal investigator for the grant; she was also the faculty advisor for the students' research papers.

*L-R: Delane Ross, Adria Smith, Lillian Profit, Patience Muse, Karl Harnsberry, William Lavergne & Andrea Bridgewater*

## Submitted Proposals (July 1, 2011-June 30, 2012)

No.	Principal Investigator	Agency Name	Proposal Title	Proposal Amount
1	Bagayoko, Diola	NSF	Predictive Calculations of Properties of Selected Semiconductors	\$544,563.00
2	Bagayoko, Diola	Prairie View A&M	LA EPSCoR Research Infrastructure Improvement: LA Alliance for Simulation-Guided Materials Applications (LaSIGMA)	\$80,000.00
3	Bai, Shuju	LA BOR	Developing a High Performance Data Processing Laboratory	\$130,399.00
4	Bai, Shuju	LA BOR	Simulating Interactions between 5-Lipoxygenase and Arachidonic Acid using Computational Approaches	\$10,000.00
5	Blevins, Edgar	LSU	Improving Louisiana Competitiveness in Experimental Astrophysics: A Rotation-Modulation Gamma-Ray Imaging Telescope	\$150,000.00
6	Blevins, Edgar	The Harris Foundation	Exxon-Mobil Bernard Harris Summer Science Camp at the Timbuktu Academy at SUBR	\$80,185.60
7	Bonvillian, Joycelyn	NSF	REU Site: Experiences for Undergraduates in Psychology	\$354,177.00
8	Carriere, Patrick	NSF	Advanced Workshop on Improving the Quality of NSF Proposals from Minority Serving Institutions	\$99,331.00
9	Carriere, Patrick	Tennessee State University	Analysis and Characterization Techniques with Applications to Waste Management	\$73,000.00
10	Cunningham, Katrina	LA BOR	Modeling Integrated Mathematical Experiences (MIME)	\$142,929.23
11	Elliott, Otis	UNCF	Chinese Studies Development Project	\$10,000.00
12	Fazely, Ali	NSF	Particle Astrophysics Research with the IceCube Detector	\$450,000.00
13	Fazely, Ali	NRC	A Professional Master of Science (PSM) Degree Program in Radiation Health and Environmental Safety Physics	\$132,112.00
14	Finely, Rachel	NSF	CC-NIE Network Infrastructure: Toward the Enhancement of Cyber-infrastructure at S.U. for STEM Research & Education	\$500,000.00
15	Gray, Wesley	Howard Hughes Medical Institute	Science Education Enhancement Program at Southern University Baton Rouge (SUBR-SEEP)	\$1,600,000.00
16	Gray, Wesley	NIH	Chemical and Biological Mechanisms of the Bioactive Compound Bizz Nut (Biz-2) in the LNCaP and DU145 Prostate Model	\$1,368,220.00
17	Gray, Wesley	LA BOR	Biz-2-Induced Apoptotic Signaling Pathways in Prostate Cancer Cells	\$9,000.00
18	Gray, Wesley	NIH	Minority Access to Research Careers (MARC) - A Biomedical Science Education Enhancement Program at SUBR	\$2,727,240.00
19	Gwee, Nigel	LA BOR	Application of Heuristic and Machine Learning Algorithms to Solve NP-Complete Dance Choreography Problems	\$10,000.00
20	Harrison, Murelle	LSU	Ecological Niche Models of Neglected Diseases using NASA Satellite Data	\$97,000.00
21	Hutchinson, Sharon	US DHHS	Southern University Advanced Nursing Traineeship Scholars Project (SUANTS)	\$348,001.92
22	Jana, Amitava	LA BOR	Research on Composite Energy Materials using Parallel Molecular Dynamics Simulation and Stereographic CAVE-Based Visualization	\$34,664.00
23	Jin, Yoonyoung	LA BOR	Next Generation Ultra-Sensitive Nanocomposite Pressure Sensor	\$97,700.00
24	Johnson, Joycelyn	LA Highway Safety Commission	Southern University Police Department Occupant Protection/Speed Reduction	\$49,630.00
25	Jones, Chanika	LA BOR	Assessing STEM Students' Cognitive Learning of HER Technologies: A Multi-Media Case Study Approach	\$10,000.00
26	Jones, Chanika	LA BOR	Travel Grants for Emerging Faculty	\$2,400.00
27	Jones, Conrad	LA BOR	The Application of Metal Organic Framework (MOF) Materials in Biodiesel Production and Reversible Hydrogenation/Dehydrogenation Process	\$10,000.00



## Submitted Proposals (July 1, 2011-June 30, 2012)

No.	Principal Investigator	Agency Name	Proposal Title	Proposal Amount
28	Jones, Conrad	NSF	MRI: Application of Solid State System for a 400 MHz NMR Spectrometer for Solid State Capabilities	\$97,000.00
29	Kaliba, Aloyce	NIH	Identification of Effective Public Policy Instruments to Alter Population-Level Diet and Physical Activity Behavior to Control Obesity in Louisiana	\$73,886.00
30	Khosravi, Ebrahim	LA BOR	A Robotics Lab for Hands-On Student Training	\$115,000.00
31	Kourouma, Mathieu	LA BOR	Managing Cyber Infrastructure Ethics and Crime	\$1,200.00
32	Lam, Pui-Man	NSF	RUI: Statistical Physics of Polymers and DNA under and External Force	\$61,496.00
33	Lam, Pui-Man	LA BOR	Statistical Physics of Polymers and DNA under External Force	\$10,000.00
34	Lam, Pui-Man	American Chemical Society	Statistical Physics of Polymers and DNA under an External Force	\$63,000.00
35	Landor-Ngemi, Jarrett	LA BOR	Computer and Multimedia Technology for Educational Leaders	\$26,143.00
36	Landor-Ngemi, Jarrett	LA BOR	Southern University National Center for the Development, Dissemination and Assessment of Health Information Technology Pedagogical Case Studies	\$10,000.00
37	Landor-Ngemi, Jarrett	Makerere University Business School	Travel Grant for Emerging Faculty	\$2,400.00
38	Lian, Kun	LSU	Development of Novel Surface Morphology with Controlled Microstructure using Advanced Electro-Plasma-Process (EPP)	\$255,000.00
39	Lian, Kun	LSU	Handheld Bacterial Counting System for Body Fluids in Space and Other Remote Point-of-Care Applications	\$180,000.00
40	Marshall, Renita Woods	USDA	JAGS in AG: Recruitment, Exploration, and Retention	\$149,838.00
41	Martinez-Ceballos, Eduardo	LA BOR	Hyrdogel-Based Encapsulation of Retinoic-Acid Loaded Dendrimers for Biological Applications	\$10,000.00
42	Mbarika, Victor	NSF	REU: E-Medicine Research and Application Development using Global Software Teams	\$607,617.00
43	Mbarika, Victor	LA BOR	Southern University Health Information Technology Laboratory (SUHIT)	\$112,156.00
44	Mbarika, Victor	NSF	Workshop Grant: US-Cameroon Research on Moving from Oral Traditions to Digitizing Information on Africa's Complementary and Alternative Medicines	\$25,000.00
45	Mbarika, Victor	NSF	Using Social Learning Theory to Investigate Mobile Phone Adoption in the Fight Against Female Genital Mutilation in Cameroon	\$328,212.00
46	Mbarika, Victor	NSF	Implementing an Artifact and Theorizing E-Democracy and Citizen Participation in Sub-Saharan Africa	\$352,717.00
47	Mbarika, Victor	NSF	Catalyzing International Collaboration to Digitize Information on Africa's Complementary and Alternative Medicines (E-ACAM)	\$99,980.00
48	Mbarika, Victor	LA BOR	Moving from Oral Traditions to Digitize Africa's Complementary and Alternative Medicines (eACAM)	\$10,000.00
49	Mbarika, Victor	NSF	Targeted Infusion Grant: Establishing a Health Information Technology Laboratory at Southern University and A&M College, Baton Rouge	\$299,572.00
50	Mbarika, Victor	NSF	Broadening Participation Research Grant: Health Information Technology Research and Application Development Using Global Software Teams	\$349,847.00
51	Mbarika, Victor	NSF	Southern University Health Information Technology Research Experience for In-Service and Pre-Service Teachers	\$499,579.00

No.	Principal Investigator	Agency Name	Proposal Title	Proposal Amount
52	Mbarika, Victor	LA BOR	Moving from Oral Traditions to Digitize Africa's Complementary and Alternative Medicine (eACAM)	\$10,000.00
53	McGee, Bernestine	USDA	Preventing Childhood Obesity: An Innovative after School Approach for African American Boys and Girls	\$999,997.00
54	Meng, Qinghao	LSU	A Novel Impact-Tolerant 3D Biomimetic Fabric Composite for Aerospace Structures	\$37,791.00
55	Mensah, Patrick	Nuclear Regulatory Commission	Increasing Minority Access to Nuclear Education at Southern University and A&M College	\$366,302.00
56	Mensah, Patrick	LSU	Manipulation of Burner Performance by Anisotropic Wall Heat Transfer	\$139,658.00
57	Mensah, Patrick	NSF	Southern University: Princeton University MRSEC PREM: Synergistic Partnership for Research and Education on Nanostructure and Functional Energy Materials	\$3,499,211.00
58	Mensah, Patrick	LSU	High Performance Lithium-Ion Rechargeable Batteries for Space Systems	\$309,461.00
59	Mensah, Patrick	LSU	Computation and Measurement of Insulation Properties in Extreme Environments	\$36,390.00
60	Meyinsse, Joseph	LA Tech	Project RIPPLE/MISE	\$49,800.15
61	Munoz, Humberto	Nuclear Regulatory Commission	Efficient Techniques in Computational Linear Algebra and Nonlinear Optimization	\$399,676.00
62	Namwamba, Fulbert	USDA	Establishment of a Geographic Information Systems and Computer-Aided Design (GIS/CAD) Laboratory	\$150,000.00
63	Namwamba, Fulbert	USDA	Optimized Implementation of Water Quality Best Management Practices in Ouachita River Basin	\$60,000.00
64	Nzewi, Emmanuel	Nuclear Regulatory Commission	Regulatory Policy, Development and Operation of Energy Systems under Climate Change Scenarios: Nuclear and Hydropower	\$266,770.00
65	Nzewi, Emmanuel	LA BOR	Development of Probabilistic Reservoir Management Models for Multi-Purpose Hydropower Systems under Climate Variability Scenarios	\$157,141.00
66	Nzewi, Emmanuel	LA Transportation Research Center	SU-CE Educational Enhancement (SU-CEEDE): Capstone Design, ASCE Student Activity and Engineering	\$5,000.00
67	Onu, Chukwu	Nuclear Regulatory Commission	Nuclear Science and Engineering Summer Institute and Curriculum Enhancement Program	\$345,384.00
68	Onu, Chukwu	Environmental Protection Agency	Development of Landfill Inventory and Pre-feasibility Assessment for Ghana	\$637,949.00
69	Owens, John	NIH	Research Training in Biochemical and Molecular Toxicology at Southern University	\$2,614,955.00
70	Porter, David	LSU	Glosseria: An Electronic Database of Anglo-Saxon Glossaries	\$14,646.00
71	Qi, Yadong	USDA	Genetic Approach to Assessing UV-B Tolerance Capacity in Selected Southern Broadleaf Trees	\$300,000.00
72	Richardson, Roslyn	Child Development Council of Acadiana	Community Assessment	\$6,000.00
73	Robinson, Rhonda	US DoEd	The Classis Upward Bound Project	\$624,540.00
74	Salam, Md Abdus	LSU	NRI-Small: An Intelligent Co-Robot for Transportation Safety	\$129,638.00
75	Salam, Md Abdus	University of South Alabama	A Multi-Agent Hierarchical Architecture for Intelligent Control and Management of Renewable Energy Source	\$54,228.00
76	Salam, Md Abdus	LA BOR	Enhancement of Energy-Efficient Data Aggregation Algorithm for Wireless Sensor Networks	\$10,000.00
77	Salam, Md Abdus	LA BOR	Development of User Interface for Wireless Sensor Network Based Home Security Monitoring System	\$169,633.00



## Submitted Proposals (July 1, 2011-June 30, 2012)

No.	Principal Investigator	Agency Name	Proposal Title	Proposal Amount
78	Salam, Md Abdus	NSF	Research Initiation Award Grant: Advancing Trustworthiness and Reliability in Distributed Sensor Networks	\$178,523.00
79	Salam, Md Abdus	USDA	Enhancing Utilization of Agricultural Methods through Wireless Sensor Networks	\$255,895.00
80	Shaban, Elhag	Nuclear Regulatory Commission	Micro Mesh Gaseous Structure X-ray Fluorescence Detector for Dilute Samples	\$149,340.00
81	Shaban, Elhag	LA BOR	Development of Gas Electron Multiplier Based Fluorescence Detector for Dilute Elements	\$10,000.00
82	Stacy, J Gregory	LA BOR	Correlative Radio and Gamma-ray Measurements of Selected High-energy Sources	\$34,013.00
83	Telles, Caroline	LSU	Ligand-Responsive Transcriptional Regulation by the MarR Family in Burkholderia	\$18,985.00
84	Telles, Caroline	LA BOR	Enhancing the Instructional Infrastructure in Biology by Implementing Multimedia Technologies at S.U.	\$56,281.75
85	Telles, Caroline	LA BOR	Supervised Undergraduate Research Experiences (SURE) 2012	\$9,000.00
86	Thornton, Alma	Capital One Bank	Southern University Asset Building Project	\$50,000.00
87	Thornton, Alma	Morehouse School of Medicine	S.U. HIV Education and Leadership Prevention Program (SU-HELP)	\$7,500.00
88	Thornton, Alma	LA Economic Development	LA Asset Building Initiative (IDA-Small Business)	\$72,000.00
89	Thornton, Alma	DHHS	Southern University Healthy Marriage/Relationship Project	\$2,355,858.00
90	Thornton, Alma	HUD	S.U. Healthy Homes Technical Studies	\$700,000.00
91	Thornton, Alma	US Dept. of Labor	SU- Community Jobs for All	\$1,212,000.00
92	Thornton, Alma	US Dept. of Justice	SU-Victim Services Project	\$400,000.00
93	Thornton, Alma	US Dept. of Justice	Wrongful Convictions Law Clinic at Southern University	\$250,000.00
94	Thornton, Alma	City of Baton Rouge, East Baton Rouge Parish	Southern University Youth Educational and Service Program (SU-YES)	\$200,000.00
95	Thornton, Alma	Norflet Progress Fund	Path to Financial Independence	\$750,000.00
96	Thornton, Alma	Environmental Protection Agency (EPA)	Southern University Youth Educational and Service (SU-YES) Program	\$200,000.00
97	Thornton, Alma	City of Baton Rouge	Southern University Youth Educational and Service (SU-YES) Program	\$200,000.00
98	Thornton, Alma	US Department of Labor	SU Re-entry to Education and Access to Collaborative Help Project (SU-RECH) Program	\$1,500,000.00
99	Thornton, Alma	US DoL	SU Re-integrating Innovating and Education Women (SU-RENEW) Program	\$1,500,000.00
100	Thornton, Alma	US DHHS	Southern University Youth Empowerment Program (YEP)	\$1,500,000.00

No.	Principal Investigator	Agency Name	Proposal Title	Proposal Amount
101	Vincent-Finley, Rachel	LA BOR	Computational Optical Coatings Research at Southern University and A&M College in Support of LIGO	\$10,000.00
102	Walker, Calvin	LA BOR	Production and Niche Marketing Assessment of Aquaculture Waste in Organic Production	\$135,000.00
103	Walker, Ernest	University of New Orleans	Trajectory Information Processing and Management for Aircraft Safety (TIPAS)	\$240,000.00
104	Williams, Francesca	Army Educational Outreach	UNITE Pre-Collegiate Summer Program 2012	\$20,000.00
105	Woldesenbet, Eyassu	LA BOR	Enhancement of Characterization for Next Generation Composite Materials	\$100,500.00
106	Yang, Shizhong	Nuclear Regulatory Commission	Computer Simulation and Experimental Evaluation of Novel Oxide Dispersion Strengthened Ferritic Steels	\$360,000.00
107	Yang, Shizhong	LA BOR	A High Performance Computing System for Materials Design	\$115,356.00
108	Yang, Shizhong	Nuclear Regulatory Commission	High Temperature Sensors Materials for Gas Turbine Engine Applications	\$150,000.00
109	Yang, Shizhong	LSU	Molecular Dynamics Simulation on the Interaction between Domain I of gK and Extracellular Domain IV of UL20	\$50,000.00
110	Yang, Shizhong	LSU	High Performance Geopolymeric Binders for Space Applications	\$200,000.00
111	Yang, Shizhong	LSU	Molecular Dynamics Simulation on the Interaction between Domain I of gK and Extracellular Domain IV of UL20 with Membrane	\$7,500.00
112	Yang, Shizhong	LSU	Molecular Dynamics Simulation on the Interaction between Viruses HSV-1 gK and UL20p.	\$375,000.00
113	Yang, Shizhong	DOE	Novel Nano-size Oxide Dispersion Strengthened Steels Development through Computational and Experimental Study	\$200,000.00
114	Ye, Zhengmao	NSF	Fostering Creativity for Engineering Education Enhancement with Quality Assurance via Integration of ABET Technology Accreditation and LiveText Assessment Accreditation	\$199,482.00
115	Ye, Zhengmao	NSF	Developing Automotive Control Course for Education Enhancement at College of Engineering after University Reconstruction with ABET and LiveText Accreditation	\$199,482.00
116	Zhao, Guang-Lin	NSF	New Microwave Metamaterial Absorbers Based on Carbon Nanotube Composites for Electromagnetic Interference Shielding	\$300,000.00
117	Zhao, Guang-Lin	NSF	First-Principles Identification of Electrocatalytic Reaction Sites on New Nano-Structured Catalysts for Fuel Cells and Other Energy Technology Applications	\$299,970.00
118	Zhao, Guang-Lin	US DoD	Identifying Non-Precious-Metal Catalysts for Fuel Cells and Lithium-Air Batteries	\$598,200.00
<b>Total</b>				<b>\$39,424,251.65</b>

## Proposals Awarded by Funding Source

Agency Name	Total Awarded	Percentage of Total	Number of Awards
Abt Associates, Inc.	\$80,000.00	0.49%	1
Capital One Bank	\$30,000.00	0.18%	1
Child Development Council of Acadiana, Inc.	\$6,000.00	0.04%	1
City of Baton Rouge	\$268,600.00	1.65%	2
Clarkson Aerospace Corporation	\$54,756.61	0.34%	1
EMAssist, Inc.	\$51,400.00	0.32%	2
LA Board of Regents (LA BOR)	\$1,442,291.00	8.86%	16
LA Department of Health and Hospitals (LA DHH)	\$156,000.00	0.96%	1
LA Department of Public Safety and Corrections	\$71,635.00	0.44%	1
LA Department of Transportation and Development (LA DOTD)	\$117,152.44	0.72%	2
LA Small Business Development Center (LSBDC)	\$200,000.00	1.23%	1
LA Transportation Research Center	\$5,000.00	0.03%	1
Louisiana State University (LSU)	\$1,280,005.99	7.86%	10
NASA	\$315,295.00	1.94%	1
National Science Foundation (NSF)	\$334,791.00	2.06%	3
Norfleet Progress Fund	\$750,000.00	4.60%	1
North Carolina A&T State University	\$40,000.00	0.25%	1
Oakridge National Laboratory	\$11,922.35	0.07%	1
Tetra Tech, Inc.	\$308,067.75	1.89%	6
The American Society for Cell Biology	\$4,000.00	0.02%	1
The Bernard Harris Foundation	\$79,971.00	0.49%	1
The Woodrow Wilson National Fellowship Foundation	\$30,000.00	0.18%	1
Thurgood Marshall College Fund	\$5,000.00	0.03%	1
United Negro College Fund (UNCF)	\$5,000.00	0.03%	1
US Department of Agriculture (USDA)	\$406,000.00	2.49%	4
US Department of Defense (US DoD)	\$217,900.00	1.34%	1
US Department of Education (US DoEd)	\$9,179,775.00	56.36%	8
US Department of Energy (US DoE)	\$400,000.00	2.46%	2
US Department of Justice (US DoJ)	\$268,963.00	1.65%	1
US Department of the Airforce	\$150,000.00	0.92%	1
US Department of Transportation (US DoT)	\$17,500.00	0.11%	1
<b>Total</b>	<b>\$16,287,026.14</b>	<b>100.00%</b>	<b>76</b>

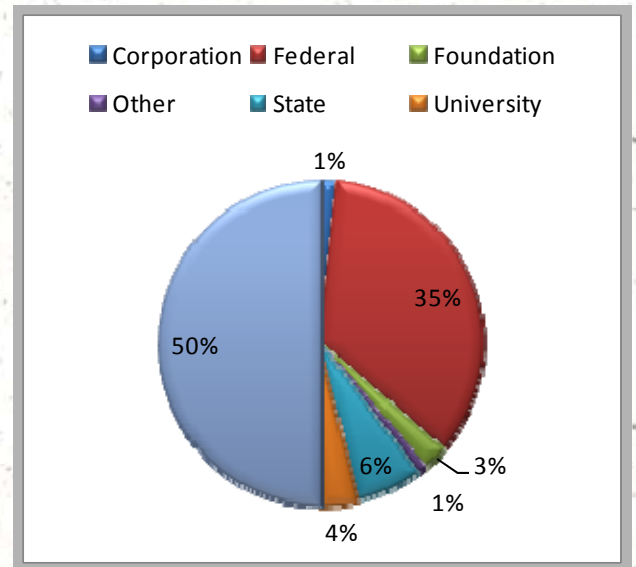


### Awards by Colleges/Units

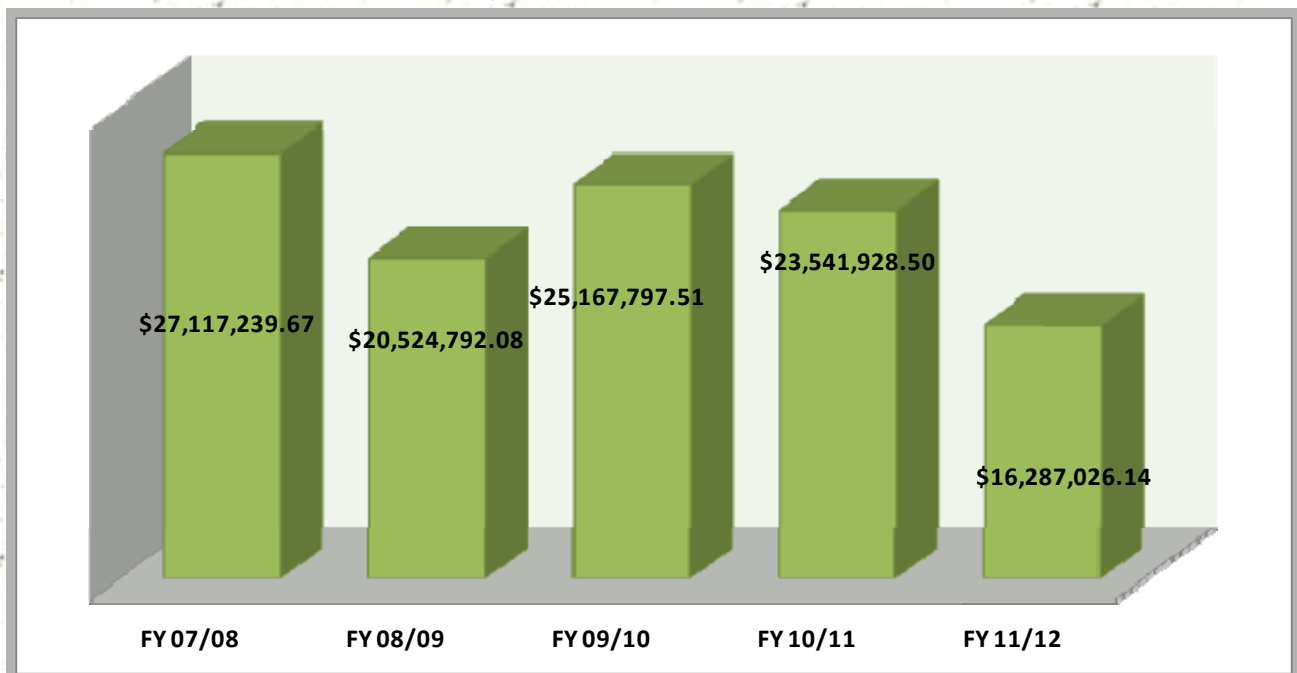
College	Total Awarded	Percentage	Number of Awards
AFCS	\$1,006,295.00	9.21%	7
Architecture	\$10,000.00	1.32%	1
Arts & Humanities	\$5,000.00	1.32%	1
Business	\$20,000.00	2.63%	2
CEES	\$491,390.10	13.16%	10
Engineering	\$905,309.05	15.79%	12
Graduate School	\$100,270.00	2.63%	2
Nursing	\$110,500.00	1.32%	1
ORSI	\$5,000.00	1.32%	1
Public Policy	\$71,635.00	1.32%	1
Sciences	\$4,777,223.99	43.42%	33
SBDC	\$458,600.00	2.63%	2
Title III	\$7,248,806.00	1.32%	1
University College	\$1,076,997.00	2.63%	2
<b>Total</b>	<b>\$16,287,026.14</b>	<b>100.00%</b>	<b>76</b>

### Funding Sources

Agency Type	Amount	Number of Awards
Corporation	\$535,224.36	13
Federal	\$11,290,224.00	22
Foundation	\$864,971.00	4
Other	\$274,522.35	3
State	\$2,126,238.43	25
University	\$1,195,846.00	9
<b>Total</b>	<b>\$16,287,026.14</b>	<b>76</b>



### Dollar Amount of Proposals Awarded July 1, 2007—June 30, 2012



## Proposals Awarded (July 1, 2011-June 30, 2012)

No.	Principal Investigator	Project Title	Agency Name	Amount
1	Abdollahi, Kamran	Enhancing Urban Forestry Program at Southern University and A&M College	USDA	\$86,000.00
2	Bagayoko, Diola	Space Grant Scholars at the Timbuktu Academy (SGS-TA)	LSU	\$50,000.00
3	Bagayoko, Diola	Louisiana Alliance for Minority Participation Senior Alliance Statewide Office at SUBR	LA BOR	\$375,000.00
4	Bagayoko, Diola	Louisiana EPSCoR Research Infrastructure Improvement: Computational Materials SUBR Subcontract	LA BOR	\$366,980.00
5	Bagayoko, Diola	Louisiana Alliance for Minority Participation Senior Alliance Institutional Agreement with SUBR	LA BOR	\$139,000.00
6	Bai, Shuju	Developing a High Performance Data Processing Laboratory	LA BOR	\$56,242.00
7	Blevins, Edgar	2012 ExxonMobil Bernard Harris Summer Science Camp (EMBHSSC)	The Bernard Harris Foundation	\$79,971.00
8	Borskey, Erma	Louisiana Child Welfare Comprehensive Workforce Project	LSU	\$4,159.99
9	Burton, Sylvester	Using Technology to Enhance the Conceptual Understanding of Undergraduate Chemistry	LA BOR	\$49,716.00
10	Butler, Doze	Developing a Program which will Result in an Increase in the Number of Students Qualified to become Agricultural Statisticians	USDA	\$5,000.00
11	Butler, Doze	Agricultural Marketing Services (AMS) Student Enrichment Program at S.U.	USDA	\$15,000.00
12	Campbell, Will	Delivery of Management and Technical Assistance to Small Businesses in LA	LSBDC	\$200,000.00
13	Campbell, Will	Community Development Block Grant Gustav/Ike Disaster Recovery	City of Baton Rouge	\$258,600.00
14	Carriere, Patrick	2011 S.U. Summer Transportation Institute Program	LA DOTD	\$64,994.44
15	Carriere, Patrick	Advanced Workshop on Improving the Quality of Proposals from Minority Serving Institutions	NSF	\$99,931.00
16	Carriere, Patrick	2012 NSTI (National Summer Transportation Institute)	LA DOTD	\$52,158.00
17	*Chavis, Kim	Title III Program	US DoEd	\$7,248,806.00
18	Doomes, Edward	Environmentally Persistent Free Radicals, Structure and Properties of Metal Oxide Particle-Absorbate Systems	LSU	\$16,373.00
19	Doucet, Patricia	Educational Talent Search #1 - Classic	US DoEd	\$452,457.00
20	Duncan, Cecil	Substance Abuse Prevention Training: Youth Access to Tobacco: Statewide Substance Abuse Process and Outcome Evaluation	LA DHH	\$156,000.00
21	Dutta, Alo	Rehabilitation Counselor Training Program with Specialization in Rehabilitation of Ethnic Minorities (REM)	US DoEd	\$150,000.00
22	Elliot Jr., Otis	Chinese Studies Development Project	UNCF	\$5,000.00
23	Finley, Rachel	2012 Career Enhancement Fellowship for Junior Faculty	The Woodrow Wilson National Fellowship Foundation	\$30,000.00
24	Gray, Wesley	Studying Biz-2-Induced Apoptotic Signaling Pathways in Prostate Cancer Cell using QRT-PCR	LA BOR	\$9,000.00
25	Gray, Wesley	Southern University and A&M College - IDeA Networks of Biomedical Research Excellence (INBRE)	LSU	\$649,388.00

\*Institutional Aid Program

No.	Principal Investigator	Project Title	Agency Name	Amount
26	Jones, Chanika	Assessing STEM Students' Cognitive Learning of EHR Technologies: A Multi-Media Case Study Approach	LA BOR	\$10,000.00
27	Kundu, Madan	Comprehensive System of Personnel Development in Rehabilitation Counseling Online (CSPD-RCO)	US DoEd	\$111,618.00
28	Kundu, Madan	Rehabilitation Capacity Building Project for Traditionally Underserved Populations (RCBP-UP)	US DoEd	\$268,525.00
29	Kundu, Madan	Rehabilitation Training - Vocational Education and Work Adjustment (VEWA)	US DoEd	\$100,000.00
30	Lam, Pui-Man	Statistical Physics of Polymers and DNA under External Force	LA BOR	\$10,000.00
31	Li, Guoqiang	Integrated Topology and Multi-Scale Optimization of Protective Structures	North Carolina A&T State University	\$40,000.00
32	Martinez-Ceballos, Eduardo	Molecular Mechanism of RAR b2 Action and the Role of Ap-1/cJun in Mouse ES Cells	LSU	\$3,750.00
33	Mbarika, Victor	Moving from Oral Traditions to Digitize Africa's Complementary and Alternative Medicine (eACAM)	LA BOR	\$10,000.00
34	Mensah, Patrick	MRI: Development of Melete: An Interaction-Oriented, Software-Rich Compute Cluster with Tangible Interface Support for Collaborative Research and the Classroom	LSU	\$195,060.00
35	Meyinsse, Joseph	LIGO Related Science Professional Development	LA BOR	\$84,070.00
36	Meyinsse, Joseph	Building a High-Performing Mathematics Program in the City of Baker School System	LSU	\$16,200.00
37	Ning, Zhu	IRES: Enhancing Global Competence and Research Skills in Climate Change and Urban Ecosystems through Collaborative Research in China	NSF	\$150,000.00
38	Ning, Zhu	An Ecosystem Approach to Global Climate Change Education	NASA	\$315,295.00
39	Ning, Zhu	Integrating Sustainability into Urban Forestry and Agricultural Education at Southern University	USDA	\$300,000.00
40	Nzewi, Emmanuel	2011-2012 Dwight David Eisenhower HBCU Fellowship Program	US DOT	\$17,500.00
41	Nzewi, Emmanuel	SU-CE Educational Enhancement (SU-CEEDE): Design, ASCE Student Activity, and Engineering	LA Transportation Research Center	\$5,000.00
42	Ouyang, Zhenyu	Bio-Mimetic Self-Healing Composite Sandwich for Impact Tolerant NextGen Aerospace Structures	LSU	\$201,078.00
43	Perry, Huey	An Evaluation of the Louisiana Department of Public Safety and Corrections' Reentry Program	LA Department of Public Safety and Corrections	\$71,635.00
44	Richardson, Roslyn	Community Assessment	Child Development Council of Acadiana, Inc.	\$6,000.00
45	Robinson, Rhonda	The Classic Upward Bound Project	US DoEd	\$624,540.00
46	Shaban, Elhag	MRI: Development of Gas Electron Multiplier Based Fluorescence X-ray Detector for Dilute Elements	NSF	\$84,860.00
47	Shaban, Elhag	Development of Gas Electron Multiplier Based Fluorescence Detector for Dilute Elements	LA BOR	\$10,000.00
48	Smith, Raife	Sensors Research	Clarkson Aerospace Corporation	\$54,756.61
49	Stacy, J. Gregory	Correlative Radio and Gamma-Ray Measurements of Selected High-Energy Sources	LA BOR	\$34,013.00
50	Taylor, Cheryl	Nursing Capitation 2011-12	LA BOR	\$110,500.00
51	Telles, Caroline	Cell Biology and Molecular Genetics of MYST-Family Histone Acetyltransferases	The American Society for Cell Biology	\$4,000.00



## Proposals Awarded (July 1, 2011-June 30, 2012)

No.	Principal Investigator	Project Title	Agency Name	Amount
52	Telles, Caroline	Studying Biz-2-Induced Apoptotic Signaling Pathways in Prostate Cancer Cell using QRT-PCR	LA BOR	\$9,000.00
53	Telles, Caroline	Enhancing the Instructional Infrastructure in Biology by Implementing Multimedia Technologies at Southern University	LA BOR	\$33,770.00
54	Thornton, Alma	SU-Path to Financial Independence Asset Building Initiative	Capital One Bank	\$30,000.00
55	Thornton, Alma	Path to Financial Independence	Norfllet Progress Fund	\$750,000.00
56	Thornton, Alma	Minority Serving Institutions HIV/AIDS Demonstration Initiative and Capacity Building Projects	Abt Associates, Inc.	\$80,000.00
57	Thornton, Alma	Southern University Stop the Violence against Women Program	US DoJ	\$268,963.00
58	Thornton, Alma	Ronald E. McNair Post Baccalaureate Program	US DoEd	\$223,829.00
59	Walker, Calvin	Production and Niche Marketing Assessment of Aquaculture Waste in Organic Production	LA BOR	\$135,000.00
60	Washington, Samuel	Energy Efficient Building Curriculum Development	Oakridge National Laboratory	\$11,922.35
61	Washington, Samuel	USACE Mentor Protégé	EMAssist, Inc.	\$25,000.00
62	Washington, Samuel	Mentor Protégé Program	EMAssist, Inc.	\$26,400.00
63	Washington, Samuel	Navy Clean Analytical Services for Marine Corps Recruit Depot (MCRD) Parris Island, South Carolina	Tetra Tech, Inc.	\$62,087.40
64	Washington, Samuel	MCRD Parris Island, South Carolina	Tetra Tech, Inc.	\$6,222.88
65	Washington, Samuel	NSA Crane Navy Clean for Analytical Services	Tetra Tech, Inc.	\$77,748.64
66	Washington, Samuel	NSA Crane Navy Clean for Analytical Services	Tetra Tech, Inc.	\$20,148.25
67	Washington, Samuel	Navy Clean Analytical Services for MCAS Beaufort, South Carolina	Tetra Tech, Inc.	\$21,860.58
68	Washington, Samuel	Analytical Services for Seaplane Lagoon at Alameda Point, Alameda California by Naval Facilities Engineering Command, Southwest Division	Tetra Tech, Inc.	\$120,000.00
69	Washington, Samuel	A Regional Program for Production of Multiple Agricultural Feedstocks and Processing to Biofuels and Bio-based Chemicals	LSU	\$120,000.00
70	Wilkinson, Lonnie	Scotlandville Attic Insulation Upgrade Program	City of Baton Rouge	\$10,000.00
71	Williams, Francesca	STEM Retention and Migration Project	Thurgood Marshall College Fund	\$5,000.00
72	Yang, Shizhong	Molecular Modeling the Interaction of Domain I and First Membrane Segment of Herpes Simplex Virus Type-1 (HSV-1) Glycoprotein K (gK) with Membrane	LSU	\$23,997.00
73	Yang, Shizhong	An Integrated Study of a Novel Thermal Barrier Coating for Niobium Based High Temperature Alloy	US DOE	\$200,000.00
74	Yang, Shizhong	Novel Nano-Size Oxide Dispersion Strengthened Steels Development through Computational and Experimental Study	US DOE	\$200,000.00
75	Zhao, Guang-Lin	Equipment Enhancement for the Studies of Broadband Electromagnetic Wave Absorption Properties of Carbon Nanotube-Polymer Composites	US DoD	\$217,900.00
76	Zhao, Guang-Lin	Study of Electromagnetic Wave Absorption Properties of Carbon Nanotubes-Based Composites	US Department of the Airforce	\$150,000.00
<b>Total</b>				<b>\$16,287,026.14</b>

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