



BREEZE BULLETIN

Office of University Research (<http://research.latech.edu>)

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SAVE THE DATES!! LATECH IN-HOUSE WORKSHOPS

Below is a partial list of workshops sponsored by the Office of University Research designed to assist faculty in submitting grants:

- **Life in the Fastlane System** - January 27th 2-3:30pm CITDL Lab, 10th Floor Prescott Library. A hands-on workshop for submitting proposals to the National Science Foundation (NSF) through the Fastlane submission site.
- **Finding Research Funding** - February 24 2-3pm WT 1535 Conf. Rm. Where and how to look for funding sources for research projects.
- **Research & Project Planning** - March 23 2-3pm, WT 1535 Conf. Rm. Helpful information on starting and successfully pursuing research ideas.
- **Research Compliance** - April 20 2-3pm WT 1535 Conf. Rm. An overview of procedures for getting Institutional Review Board approvals for projects involving Human Use, Animal Use and potential Biohazards.

You may also go to: http://research.latech.edu/resources/resource_links/louisiana_tech_workshops to view a more complete list of workshops and current scheduling dates and times. Contact Beth Free at 257-5075 or bfree@latech.edu for more information.

It is only through labor and painful effort, by grim energy and resolute courage, that we move on to better things.

Theodore Roosevelt
(1858-1919, 26th American President)

2010 FEDERAL R&D FUNDING

Signed Legislation Begins to Define Federal R&D and TBED Appropriations for FY10

SSTI Weekly Digest November 11, 2009

Since ... the federal government's fiscal year on Oct 1, five of the 12 appropriations bills for FY10 have been signed into law by President Obama. The remaining seven bills are ... at various places in the appropriations process. (Go to <http://www.ssti.org/Digest/latest.htm> for updates on this article).

This means the final appropriations for departments such as Defense, Commerce, Labor, Education, HHS and the NIH, and agencies such as NSF and NASA still need to be resolved. However, the budget bills that have become law, including the Energy and Water bill, the Interior and Environment bill, and the Agriculture bill, contain specific line-items which can be reported for various research, development, and TBED content.

Energy and Water Appropriations Bill

The Department of Energy (DoE) is set to receive \$27.11 billion in FY10, a 1.2 percent increase from the previous fiscal year. DoE allocations include funding for the Department's Office of Science, energy efficiency programs, and various energy-related research grants. The Department also received a significant boost earlier in the year with \$38.7 billion in funding from the Recovery Act (see the Feb 19, 2009 special issue of the *Digest*).

The Office of Science will receive \$4.90 billion in FY10, a rise of 3.1 percent from FY09. The funds will be allocated as follows

- \$1.64 billion for the basic energy sciences;
- \$810 million for high-energy physics;
- \$604 million for biological and environmental research;
- \$535 million for nuclear physics;
- \$426 million for fusion energy sciences;
- \$394 million for advanced computing;
- \$128 million for science laboratories infrastructure; and,
- \$21 million for science-based workforce development.

The new Advanced Research Projects Agency for Energy (ARPA-E), which two weeks ago awarded \$151 million in its first round of grants, received no funding for FY10. However, a transfer of \$15 million from previous appropriation acts was specified.

NEW GRANTS AWARDED

PI/Co-PI	Title	Funding Agency	\$ Awarded
Allouche/Simisevic/	ELXSI/Ultrascan	U.S. Dept. of Commerce	807,421
Vir Phoha	Distributed Autonomy for Intelligent Decision Making	ONR thru Penn State	25,000
Edward Bell	Blinded Veterans and Warriors Pilot Training, Rehabilitation, and Re-	Dept. of Army	80,000
Chester Wilson	LaSPACE/Josh Brown	Nasa	25,000
Natalia Zotov	LIGO Data Analysis: Veto Analysis, Follow-up Analysis, and Detector	NSF	120,000
Tommy Grafton	Project Northland Claiborne Parish	DHH/LDH	26,100
Dick Greenwood	LaSpace Fellowship/S.Baker	NASA	25,000
Dick Greenwood	LaSPACE Fellowship/M. Hartmann	NASA	25,000
August 2009			1,133,521
Box Leangsuksun	Scalable Resilience in Large-Scale Systems	DOD/NAS	458,000
Bala Ramachandran	SMART Scholarship (ASEE)	DOD/ASE	5,442
Carpenter/O'Neal/	Creating a Culture of Success for Women in Engineering	NSF	736,500
Stan Napper	Systems Engineering Research for U.S. Energy Needs at Louisiana	Dept. of Energy	1,387,287
Kenny Crump	EPA Fellowship	EPA/ORISE	99,126
Mindy Bryan	Impact of SmartFocus Control on Speech in Noise	Unitron, Inc.	18,379
Gary Stokely	Workplace and Community Transition for Incarcerated Youth Offenders	La.Dept. of Corrections	50,000
Glenn Beer	Sci-TECH Space Institute for Teachers	NASA/LaSPACE	6,992
Carynn Wiggins	Making the Grade with Singapore Math	BESE	5,069
Kathleen Johnston	Precision Electroweak Measurements at Jefferson Lab	NSF	600,000
Cardenas/Hall	Electrochemical Oil Spill Prevention	LSU/OSR	3,448
Pedro Derosa	CR&D III: "Multiscale Molecular Modeling of Thermal Transport in Nano-	AF/Universal Tech Corp	62,740
Mike O'Neal	Providing Managerial Expertise to Network Foundation Technologies	NFT	22,235
Mark Gibson	McIntire-Stennis Cooperative Research Program - 2010	USDA	228,215
Ji Fang	High Sensitivity Prostate Cancer Detection System	ULM	3,000
William Campbell	CyberFlora Louisiana	NSF/ULM	11,916
Keith-Vincent/Beer	Project INVEST: Investing in Volunteer Experiences with Support Tutor-	CNCS/LDOE	5,000
September 2009			3,703,349
Erez Allouche	Mechanical Testing of Spray-In-Place Pipe Coating	3M	27,450
Galen Turner	Cyber K-12: Building a Foundation for Cyber Education in North La/	US DoEducation	951,000
Hall/Tims	Developing Engineering Faculty as Leaders of Academic Change	NSF/NAS	2,500
Les Guice	Sensors Technical Thrust Research - FY'10	DOD/Clarkson	125,000
Guice/Dobbins/	Materials & Manufacturing - FY '10	DOD/Clarkson	125,000
Smith/Holmes	Teacher Collaboration for Inclusive Settings	US DoEducation	150,000
October 2009			1,380,950
Merchant/Young	First National Bank/Bienville Parish	La. Workforce	128,188
Merchant/Young	Scott Company Consortium	La. Workforce	153,397
Young/Merchant	Alpine Guest Care, LLC	La. Workforce	112,907
Brian Etheridge	Managing SHAFR.org	Society for Historians/	4,000
Chester Wilson	LaSPACE/Noah Bergeron	NASA/LaSPACE	25,000
Kennedy/Moore	2009-2010 Carl Perkins Vocational & Technical Education Grant	DoEducation	60,898
Chester Wilson	MRS for Jeffrey A. Matthews	NASA/LaSPACE	5,000
Jan Colvin	Children's FUNN Day (Children's Families Understanding the Need for	Children's Trust Fund	10,000
Wesley Palmer	Measuring Levee Elevation Heights in North Louisiana	LTRC	163,982
Tabbatha Dobbins	Computational Catalysis and Atomic-Level Synthesis of Materials: Build-	US DoEnergy	409,568
November 2009			1,072,941
Pam Moore	Nursing Capitation 2010	BoR	87,750
Erez Allouche	Performance of Aquapipe Liner at the Location of Ring Fractures	Sanexon Environ.	7,320
December 2009 (to date)			95,070
YTD 09-10 Total:			\$10,514,050

PROPOSALS SUBMITTED

FILE #	PI	Co-PI 's	TITLE	AGENCY	\$ Requested
10-039	Phoha, Vir		Logical Foundations for Property Infusion on Networked Computations	ONR	100,000
10-040	Crittenden, Kelly	H.Tims/G.Turner	Project Capstone: a Mathematics & Science Partnership	NSF	10,495,768
10-041	Bryan, Melinda		Impact of SmartFocus Control on Speech in Noise	Unitron Hearing	18,379
10-042	Weiss, Leland		ARRA: Waste Thermal Energy Harvesting for National Energy Efficiency and Security	DOE	798,744
10-043	Leung, Caroline		FSCPE 2010 Count Review Program	US Census Bureau	16,097
10-044	Holley, Gordon		New Perspectives for Woodland Owners in the Western Gulf Region	Bradley/Murphy Forestry & Natural Resources Extension Trust	2,000
10-045	Sit, Sidney		ARRA: Electrochemistry and Charge-transfer Process of Material Surface With Biological Entities	DOE	782,220
10-046	Chiu, Alan		Unsupervised Seizure Onset Prediction	Epilepsy Foundation	46,882
10-047	Liu, Don		ARRA: Numerical Algorithms for Conjugate Momentum Exchange in Extreme Scales Between a Fluid and Massive Numbers of Particles	DOE	204,423
10-048	Greenwood, Dick		LaSPACE Fellowship/M. Hartmann	LaSPACE/NASA	25,000
10-049	Greenwood, Dick		LaSPACE Fellowship/J. Brown	LaSPACE/NASA	25,000
10-050	Hall, David	Tims, Heath	Developing Engineering Faculty as Leaders of Academic Change	National Academy of Engineering	2,500
10-051	Ramachandran, Bala		SMART Scholarship (ASEE)	ASEE	5,442
10-052	Sethi, Prerna		Novel Methods for Microarray Gene Expression Data Mining for Translational Bioinformatics	BoR/RCS	143,941
10-053	Cardenas, Henry	Hall, David	Electrochemical Oil Spill Prevention	OSRDP	3,448
10-054	Hegab, Hisham		Investigation of Condensation Processes in Micro Pin Fin Heat Exchangers	NSF-CBET	295,787
10-055	Yule, Jeffrey		Modeling the Ecological & Evolutionary Causes and Consequences of Extinctions	BoR/RCS	147,234
10-056	Wolf, William		Toxicity of Nanoparticle Exposure During Early Development of Fathead Minnows	BoR/RCS	withdrawn
10-057	Hindmarsh, Patrick		Development of an Autonomous Replicating Plasmid and CHIP Analysis of Candida Albicans	BoR/RCS	withdrawn
10-058	Shultz, Jeff		The Role of Genetic Allele Composition and Environmental Factors in the Development of Multiple Sclerosis in Humans	BoR/RCS	withdrawn

PROPOSALS SUBMITTED (CONT'D FROM PAGE 4 . . .)

FILE #	PI	Co-PI 's	TITLE	AGENCY	\$
10-059	Feng, June		Early Detection of Subclinical Alzheimer Disease ...	BoR/RCS	150,000
10-060	Atkison, Travis		Developing an Effective Dimensionality Reduction Methodology for Malicious Software Detection Predictors	BoR/RCS	150,000
10-061	Baggag, Abdelkader		Parallel Algebraic Multigrid Methods on Distributed Memory Computers for Large Scale Industrial Applications on the LONI Infrastructure	BoR/RCS	200,000
10-062	Duncan, Christian		Theoretical and Practical Development of Tools for the Visualization of Graphs in a Dynamic Environment	BoR/RCS	150,000
10-063	Eklund, Sven		Spectroscopic & Electrochemical Studies of the Electrodeposition of Refractory Metals in Room Temperature Ionic Liquids	BoR/RCS	150,000
10-064	Genov, Dentcho		Artificial Optical Materials for Low Observability Stealth Technology	BoR/RCS	140,000
10-065	Gourd, Jean		API-S: Addressing Mobile Agent Security for More Robust Intelligent Agents	BoR/RCS	150,000
10-066	Paun, Mihaela		A New Computational Method for Improving DNA Arrays Sensitivity	BoR/RCS	148,815
10-067	Wang, Shengnian		Diverging Flow Cell Electroporation to Facilitate In Vitro Biomolecule Delivery	BoR/RCS	200,000
10-068	O'Neal, Mike		A Distributed Online Broadcast System	BoR/ITRS	350,000
10-069	Chiu, Alan	Tims/ Shipp	Nonlinear Feedback Control for Upper Limb Prosthetics	NSF	146,408
10-070	Selmic, Sandra		Collaborative Research: Fabrication and Characterization of Well-Defined Organic Nanostructures ...	NSF	102,501
10-071	O'Neal, Mike		Providing Managerial Expertise to Network Foundation Technologies	NFT	22,325
10-072	Jaganathan, Arun		On-demand, Passive, Low Cost and Robust Receptor for Health Monitoring	BoR/RCS	176,693
10-073	Crews, Niel		DNA Identification Using Spatial Thermoelectric Detection	BoR/RCS	withdrawn
10-074	Allouche, Erez		Independent Laboratory Testing of CMS 10K ...	Wbe Dorcas, Inc.	14,000
10-075	Allouche, Erez		Evaluating the Geopolymerization Potential and Commercial Applications of Dollet Hill Power Plant Fly Ash-Phase 2	Cleco Power	25,000
10-076	Phillips, James		Factors Affecting Acceptance of Augmented Reality Support Systems by La. Health Care Workers	BoR/RCS	130,000
10-077	Crews, Niel		SNP Genotyping During PCR: Spatial DNA Melting Analysis of Temperature Gradient Microfluidics	NSF	422,885
10-078	Allouche, Erez	Sterling/ McKim	Web-Based Decision Support Tools for Selection of Condition Assessment and Rehabilitation Methods for Laterals	WERF	100,000
10-079	Gunasekaran, Alfred	Coane/ Davis	Acquisition of a 3D-Digital Microscope for Advanced Micro and Nanotechnology Research, Education, and Training	AFOSR/DURIP	104,659

PROPOSALS SUBMITTED (CONT'D FROM PAGE 5 . . .)

FILE #	PI	Co-PI 's	TITLE	AGENCY	\$
10-080	Weiss, Leland	Tims, Heath	Energy Sustainability Through Waste Energy Use	NSF	296,070
10-081	Sit, Sidney		Electrochemistry and Charge-transfer Process of Material Surface With Biological Entities	NSF	299,998
10-082	Gold, Scott	Eklund/Wick	Synergistic Experimental and Computational Optimization of Lithium Conductivity in Polymer Electrolytes	NSF	348,808
10-083	Hegab, Hisham		Investigation of Condensation in Micro Pin Fin Devices	NSF	295,787
10-084	Liu, Don		Joint Simulations of Intensive Particle-Fluid Interactions In Confined Nano-Geometrics	NSF	204,520
10-085	Liu, Don	Ramachandran, Bala	Simulation of Interfacial Transport Phenomena Involving Complex Mixture of Nanofluid and Macromolecules	NSF	204,520
10-086	Que, Long		Multiple Energies Scavenging MemS Devices Enabled by Integrated Carbon Nanotube Thin Films	NSF	415,469
10-087	Gibson, Mark	Grozdzits, George	Louisiana Forest Products Development Center at Louisiana Tech University	LSU AC	49,500
10-088	Sit, Sidney		Applied Electrokinetics for the Modification of Tissue Engineered Scaffolds	NIH	299,869
10-089	Tims, Heath		NASA-Threads	Nspires	866,387
10-090	Que, Long		An Integrated Technical Platform for Controlled Drug Effects Analysis and Nanomaterial Toxic Detection	NSF	426,020
10-091	Gibson, Mark		McIntire-Stennis Cooperative Research Program - 2010	USDA	228,215
10-092	Que, Long		Fabrication of Silicon-Based Micropipettes for Giga-Seal Patch-Clamp Microchip Application	Pfund	10,000
10-093	Wang, Shengnian		ARRA Microfluidics-Mediated Delivery of Biomolecule Probes for ES and Cancer Cells	NIH	330,559
10-094	Saber, Aziz	Wang, Jay	Use of Geosynthetic Reinforced Soil for Bridge Abutments	LTRC	249,997
10-095	Wilson, Chester		Mda Nanotube Dfv	Radiance Technologies	30,000
10-096	McKim, Robert		US Composites Joint Testing	US Composites	4,118
10-097	Paun, Mihaela		System Reliability Modeling for K Nodes	Pfund	10,000
10-098	Weiss, Leland	Gold, Scott	Advanced MEMS-based Sensor Power	NSF	590,650
10-099	Smith, James	Merchant, David	Northeast Louisiana HEART Project - Health Education for American Reinvestment Training	La. Dept. of Labor	326,191
10-100	Choi, Ben		Building Multi-valued Logic Computers and Fuzzy Computers	NSF	267,778
10-101	Evans, Katie		Modeling Challenges for Control of Aeroelastic Wing Unmanned Aerial Vehicles	Pfund	10,000
10-102	Stoff, Laurie		"More than Binding Men's Wounds: Women's Medical Service in Russia During the Great War"	BoR/ATLAS	50,000
10-103	Dillaway, Dylan		Mechanistic Underpinnings of the Temperature Response of Leaf Dark Respiration	Pfund	10,000

PROPOSALS SUBMITTED (CONT'D FROM PAGE 6 . . .)

FILE #	PI	Co-PI 's	TITLE	AGENCY	\$
10-104	Paun, Andrei		A New Segmentation Method for the DNA Arrays Images	Pfund	10,000
10-105	Crews, Niel	Wilson, Chester	Microfluidic Analysis of Real-time DNA Degradation	LaSPACE/ NASA	15,470
10-106	Sit, Sidney		Modification of Fibroblast-embedded Scaffolds by Electrokinetic Treatment	Pfund	10,000
10-107	Guilbeau, Eric		Thermoelectric Method for Sequencing DNA	Pfund	10,000
10-108	Tyree, Michael	Dillaway, Dylan	The Influence of Seedling Physiology, Light Availability, and Their Interaction on Three Bottomland Hardwood Species	Pfund	9,802
10-109	Wang, Shengnian	Wang, Shengnian	Development of a Novel Optical Force-Mediated Microfluidic Platform for Cell Sorting	Pfund	10,000
10-110	Genov, Dentcho	Genov, Dentcho	Optical Attractors and Continuous Index Photon Traps	Pfund	9,800
10-111	Ker, Jun-Ing		A Pilot Study for the Establishment of a Learning Factory for Continuous Quality Improvement	Pfund	10,000
10-112	Wilson, Chester	Wilson, Chester	MRS/Whitney Ukpai	LaSPACE/ NASA	5,000
10-113	Wolf, William		Toxicity and Gene Expression Profiling in Developing Fathead Minnows Exposed to Metal Oxide Nanoparticles	Pfund	10,000
10-114	Shoemaker, Sheryl	Bryan, Matthew	Enhancement of the Audiology Program at Louisiana Tech University	BoR/Enh	99,175
10-115	Crews, Niel		Partnership for Interdisciplinary Research in Microfluidic Technologies	LaSPACE/ NASA	57,448
10-116	Allouche, Erez		Development of Eco-Reef Geopolymer Blocks in Support of La. Coastal Line Reconstruction	Pfund	10,000
10-117	Wolf, William		Toxicity & Gene Expression Profiling in Developing Fathead Minnows Exposed to Metal Oxide Nanoparticles	NIH	132,732
10-118	Beer, Glenn	Schilling, Tammy	Louisiana College Access and Mentoring Programs for Success (LaCAMPS) Year 6	LaSIP/US Dept. of Edu.	389,165
10-119	Beer, Glenn	Basinger, Dawn	LaTech/LaGEAR UP Explorers Camps - Consolidated budget	LaGEAR UP/ US Dept. of Edu	685,784
10-120	Haberman, Heather	Murimi, Mary	Technology Driven Health & Family Education	BoR/Enh	64,000
10-121	Sit, Sidney	Cardenas, Henry	Applied Electrokinetics for the Modification of Tissue Engineered Scaffolds	NIH	284,131
10-122	Talton, Carolyn	Patterson, Charles	Beacon Math Project II	LaSIP/US Dept. of Edu.	293,380
10-123	Cummins, Carrice	Kimbell-Lopez, Kim	Project Beacon: Lighting the Way to Improved Reading, Writing, and Thinking - Intensifying & Extending the Focus	LaSIP/US Dept. of Edu.	366,243
10-124	Beer, Glenn	Deese, William	The Best of Ripple III	LaSIP/US Dept. of Edu.	252,432
10-125	Dillaway, Dylan	Tyree, Mike	Physiological Ecology Laboratory Grant	BoR/Enh	43,085
10-126	Heiden, Kathleen	Clay, Keely	Creative Designs from the Lab to the Classroom	BoR/Enh	108,226

PROPOSALS SUBMITTED (CONT'D FROM PAGE 7 . . .)

FILE #	PI	Co-PI s	TITLE	AGENCY	\$
10-127	Wick, Collin		Computational Design of CO ₂ -Phylic Hydrocarbon Polymers to Promote More Efficient Oil Recovery	ACS Petroleum Research Fund	50,000
10-128	Beer, Glenn	Schilling/ Tobacyk/ Livingston	A Comprehensive School Reform Initiative for Louisiana GEAR UP Schools - Year 2	LaSIP	454,308
10-129	Kennedy, Kevin		Enhancements to the Art & Architecture Workshop: Precision, Safety, and Portability of Tools Used in the Making of Art and Architecture	BoR/Enh	97,323
10-130	Kim, Yeonsoo	Hunt/Pope	Equipment for Enhancing Students' Knowledge and Skills for Teaching Diabetes Self Management	BoR/Enh	24,520
10-131	Kennedy, Gary	Reger, Gordon	Louisiana Tech University Dairy Processing Enhancement	BoR/Enh	271,233
10-132	Ramachandran, Ramu		EPSCoR RII: Louisiana Alliance for Simulation-Guided Materials Applications (LA-SiGMA)	BoR	3,067,890
10-133	Tucker-Cureington, Erin	Murphey, Mark	LaTech Meat Science Laboratory Enhancement	BoR/Enh	337,210
10-134	Gallagher, Peter	Brooks/ Chestnut/ Ericson/Yates	Development of a Model Garden/Outdoor Learning Center	BoR/Enh	79,220
10-135	Murphey, Mark	Green, William	Feed Efficiency, Residual Feed Intake, and Feeding Behavior Research	BoR/Enh	203,045
10-136	Shultz, Jeff	Muslow/Wolf	School of Biological Sciences Multi-Analyte Bioassay Detection System	BoR/Enh	56,085
10-137	Wang, Sheng-nian	Palmer, James	Enhancing Chemical Engineering Courses with PIV and microPIV Analysis	BoR/Enh	74,927
10-138	Wasiudden, Nazimuddin		Superpave Gyrotory Compactor for Highway Engineering Laboratory	BoR/Enh	33,926
10-139	Phillips, Kerri	Madix/Martin	Multi-disciplinary Enhancement of the Speech-Language Pathology, Audiology, Health Information Management Programs at LaTech	BoR/Enh	124,167
10-140	Gould, Jay	Schrom, Jes	Enhancing the School of Art with Digital Photographic Manipulation, Printing, & Video Arts for LaTech	BoR/Enh	84,391
10-141	Chiu, Alan		Upgrade Undergraduate Biomedical Instrumentation Laboratory	BoR/Enh	18,016
10-142	Saber, Aziz	Tims/Allouche	High Performance Materials Laboratory	BoR/Enh	86,439
10-143	DeCoster, Mark	Lvov/Yule	Nanomaterials Safety Lab: Research Integrated with Service and Education (RISE)	BoR/Enh	76,430
10-144	Wang, Jay		Enhancement of the Geotechnical Engineering Lab	BoR/Enh	46,107
10-145	Martin, Michelle	Fuller/ Theodos/ Sethi	Multi-institutional Collaboration of Academic Transition to ICD-10-CM/PCS	BoR/Enh	131,101
10-146	O'Neal, Patrick	Hegab, Hisham	Undergraduate Nanoparticle Manufacturing Lab Enhancement	BoR/Enh	71,098
10-147	Harbour, Davis	Eads, James	Undergraduate Microcontroller Laboratory	BoR/Enh	42,445
10-148	Davis, Despina	Palmer/Tims	Energy-Dispersive X-Ray Fluorescence Analyzer (EDXRF)	BoR/Enh	54,975
10-149	Gold, Scott	Palmer, James	Enhancing the Chemical Engineering Lab with a Fuel Cell Test Station	BoR/Enh	withdrawn
10-150	Guice, Les	Derosa/ Dobbins	Materials & Manufacturing - FY '10	Clarkson Aerospace	125,000
10-151	Guinn, Mark		School of Performing Arts Armory Enhancement	BoR/Enh	14,314

PROPOSALS SUBMITTED (CONT'D FROM PAGE 8 . . .)

FILE #	PI	Co-PI 's	TITLE	AGENCY	\$
10-152	Maggio, Todd	Crittenden/ Tims	Advancing Innovative Product Design at LaTech	BoR/Enh	94,270
10-153	Hall, David	Allouche, Erez	Enhancing Trenchless Service Installations Through Keyholes - Phase V	Gas Technology Institute	44,674
10-154	Selmic, Rastko	Selmic, Rastko	Enhancement of Control Systems Lab	BoR/Enh	65,700
10-155	Allouche, Erez	Saber/ McKinney	Enhancement of LTU Structural Testing Laboratory	BoR/Enh	126,275.00
10-156	Sorensen, Randall	Robbins/Guinn	Performance Space Audio & Video Capture Studio & Digital Archive for the School of Performing Arts at LaTech	BoR/Enh	158,097
10-157	Guinn, Mark		Howard Auditorium Rigging Enhancement	BoR/Enh	115,117
10-158	Etheridge, Brian		Managing SHAFR.org	Society for Historians	4,000
10-159	Leangsuksun, Box	Greenwood, Dick	Application of Many-Core Processors to High Energy Physics Computing	UTA	120,162
10-160	Gourd, Jean		CASE: Contained Automated Software Environment	IARPA	1,280,618
10-161	Gourd, Jean		Identifying Vulnerabilities From Binary Executable Code Characteristics	IARPA	904,712
10-162	Phoha, Vir		Model-based Static and Dynamic Techniques for Securing Software of Uncertain Provenance	IARPA	200,000
10-163	Sheets, Tilman	Igou/Beer	Planning Grant for GEAR UP Evaluation	BOR	24,000
10-164	Hunt, Howard	Zumwalt, Gary	Gasoline Spill Remediation Using Ozone	La. Sea Grant	25,000
10-165	Lvov, Yuri	DeCoster, Mark	Materials World Network, Supracellular Assemblies: 1-2-3D With Living Cells	NSF	260,000
10-166	Shipp, Michael		Comprehensive Center for Rehabilitation Technology	LRS	3,806,999
10-167	Voziyanov, Yuri	Voziyanov, Yuri	Tailor-made Site-specific Recombination of Gene Manipulation	BSF	109,250
10-168	Wick, Collin		Computational Study of Interfacial Structure and Reactivity	DOEnergy	508,425
10-169	Guilbeau, Eric	Crews/ Hindmarsh	Thermoelectric Method for Sequencing DNA	NIH	275,000
10-170	Mills, David	Mainardi, Daniella	NERO II: Nanoscience Education and Research Outreach II	NSF	489,921
10-171	Stoff, Laurie		Celebrating Women Making History: LEH Outreach Grant	LEH	2,134
10-172	Palmer, Jim	Ramachandran/Gold	Graduate Fellows in Engineering 2011-2015	BoR/GF	300,000
10-173	Jones, Steven	Ramachandran/Guilbeau	Graduate Fellows in Biomedical Engineering 2011-2015	BoR/GF	200,000
10-174	Turner, Galen	Ramachandran/Dai	Graduate Fellows in Computational Analysis & Modeling 2011-1015	BoR/GF	200,000

2010 R&D FUNDING (CONT'D FROM PAGE 1 . . .)

While the DoE requested funds to create eight "Energy Innovation Hubs" in various topics, only three were chosen to be funded: one in solar energy, one in the design of efficient buildings, and one in nuclear energy modeling and simulation.

About \$2.24 billion is allocated for various research initiatives under the heading of Energy Efficiency and Renewable Energy (EERE), including the following:

- \$311 million for R&D in vehicle technologies;
- \$225 million for solar energy systems;
- \$210 million for the Weatherization Assistance Program;
- \$220 million for biomass and biorefinery R&D with \$35 million specifically for algae biofuels;
- \$200 million for building technologies;
- \$174 million for hydrogen technologies;
- \$96 million for efficiencies within industry;
- \$80 million for wind energy systems;
- \$50 million for the State Energy Program (SEP);
- \$50 million for water power and hydroelectric systems; and,
- \$44 million for geothermal systems.

Research and development programs concentrating on fossil fuels will receive \$672 million. Of that, \$404 million will go to power systems research, including \$154 million for carbon sequestration, \$158 million for program direction, and \$18 million for natural gas R&D.

The Innovative Technology Loan Guarantee Program, a newer loan program with origins in the Recovery Act to support renewable energy and transmission technologies, is slated to receive \$43 million in FY10. The Advanced Technology Vehicles Manufacturing Loan Program will receive \$20 million in FY10..

The Energy and Water Bill also outlines appropriations to various economic development regional commissions. For FY10, these funding levels include:

- Appalachian Regional Commission, \$76 million
- Delta Regional Authority, \$13 million
- Denali Commission, \$12 million
- Northern Border Regional Commission, \$1.5 million
- Southeast Crescent Regional Commission, \$250,000

Interior and Environment Appropriations Bill

In the Department of the Interior, the U.S. Geological Survey (USGS) is allocated to receive \$1.11 billion in FY10, an increase of 6.5 percent from FY09. Funds fall within the following categories:

- \$249 million to investigate geologic hazards, resources, and process (2.9 percent increase from FY09);
- \$232 million for water resource projects (4.9 percent increase);
- \$205 million for biological research (10.6 percent increase);
- \$146 million for geographic research, investigations, and remote sensing projects (2.4 percent increase);
- \$106 million for USGS facilities (4.2 percent increase);

PROPOSALS SUBMITTED (CONT'D FROM PAGE 9 . . .)

FILE #	PI	Co-PI 's	TITLE	AGENCY	\$
10-175	Mainardi, Daniela	Giorno, Rebecca	Nanoengineered Enzymatic Catalysts for Methane Bioremediation	NSF	581,883
10-176	Allouche, Erez		Development of a Design Procedure for Poly-Triples Liner System	Poly-Triplex Technologies	19,520
10-177	Moore, Pamela		Nursing Capitation 2010	BoR	87,750

ADDITIONAL GRANT FUNDING FOR EXISTING AWARDS

- Lusby/Overby, THE ARK PROJECT, CNCS/La. Campus Compact, \$6,500;
- T.McConathy, TRACIE REED SCHOLARSHIP, Grambling State University \$25,000;
- M.DeCoster, COLLABORATIVE RESEARCH FOR THE DESIGN & DEVELOPMENT OF MICRO/NANO SCALE DEVICES, NSF/Tulane \$13,300;
- M.DeCoster, COLLABORATIVE RESEARCH FOR THE DESIGN & DEVELOPMENT OF MICRO/NANO SCALE DEVICES, NSF/BoR/Tulane \$163,304;
- S.Jones, GRADUATE FELLOWS IN BIOMEDICAL ENGINEERING, BoR \$22,000;
- C.Leangsuksun, RELIABILITY, AVAILABILITY, AND SERVICEABILITY, FOR PETASCALE HIGH-END COMPUTING AND BEYOND, DOEnergy \$50,000;
- C.Leangsuksun, CSR-DMSS, PSCE: COLLABORATIVE RESEARCH: SCALABLE RESILIENCE IN LARGE-SCALE SYSTEMS, NSF \$100,000;
- T.Morrow, SYNTHESIS OF NANOPOROUS MATERIALS IN IONIC LIQUIDS: A FUNDAMENTAL STUDY OF THE SOLVENT'S ROLE, NSF/KSU \$8,410;
- D.Mills, TEXAS REGIONAL COLLABORATIVES FOR EXCELLENCE IN SCIENCE TEACHING, Shell Oil/University of Texas \$10,000;
- P.O'Neal, PHYSICIAN-FREE NANOPARTICLE BASED DRUG DELIVERY FOR SPACE RELATED APPLICATONS, NSF/LSU/LaSPACE \$2,500;
- J.Palmer, NUE: TEACHING UNDERGRADUATES NANOMANUFACTURING ENGINEERING (TUNE). NSF \$71,950;
- G.Turner, STEM-PLUS: LOUISIANA TECH UNIVERSITY'S NOYCE SCHOLARSHIP PROGRAM, NSF \$237,664;
- T.McConathy, DOCTORAL DIVERSITY IN ENGINEERING AND THE SCIENCES AT LOUISIANA TECH UNIVERSITY, BoR \$50,000;
- L.Griffin, THE SOLUTION PART II: A MENTORING PROGRAM, CNCS thru ULM \$5,000;
- L.Guice, LOUISIANA RESEARCH INFRASTRUCTURE IMPROVEMENT: EPSCOR CHAIR, NSF thru BoR \$14,600;
- C.Wilson, GRADUATE RESEARCH FELLOWSHIP PROGRAM - JOHN SWEENEY, NSF \$40,500;
- C.Wilson, LASPACE FELLOW-PROF. DICK GREENWOOD-C.M. WHITNEY-LA TECH, NASA thru LSU/LaSPACE \$15,000;
- L.Guice, MEMORANDUM OF UNDERSTANDING FOR THE LOUIS BACKUP SERVER, LSU \$7,444;
- C.Talton, THE BEACON MATH PROJECT BESE, BESE thru LaSIP \$85,320;
- C.Cummins, PROJECT BEACON: LIGHTING THE WAY TO IMPROVING READING, WRITING, AND THINKING, BESE thru 87,318.

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For help finding \$\$ for your research, go to this site: http://research.latech.edu/resources/funding_opportunities or contact Beth Free, Pre-award Coordinator, 257-5075 or bfree@latech.edu.

2010 R&D FUNDING (CONT'D FROM PAGE 9 . . .)

- \$69 million for science support (2.7 percent increase);
- \$58 million for global climate change research (43.3 percent increase); and,
- \$46 million for enterprise information (7.7 percent increase).

The EPA is set to receive \$10.3 billion in FY10, with \$846 million going towards its science and R&D activities. This includes \$248 million for human health and ecosystems research, \$122 million for air toxins research, \$110 million for clean water research, \$104 million for clean air research, and \$19 million for its climate protection program.

Agriculture Appropriations Bill

In the Agriculture bill, \$1.18 billion is allocated for the Agricultural Research Service (ARS), and \$788 million is allocated to the National Institute of Food and Agriculture (NIFA) for research and education activities.

The USDA's Rural Development initiatives have a handful of TBED-related activities, especially for distance learning, telemedicine, and broadband activities to improve access in underserved areas. Specific allotments include:

- \$400 million broadband telecommunications loans;
- \$29 million subsidies for broadband telecommunications loans;
- \$38 million for distance learning and telecommunication grants; and,
- \$18 million in broadband telecommunication grants.

The Library of Congress maintains a webpage with links to all twelve appropriations bills as they progress through both houses. It is available at: <http://www.thomas.gov/home/approp/app10.html>.

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Helpful OUR Weblinks

Reference these websites for help in proposal preparation and budget info:

- Proposal preparation - For instructions on how to prepare and route your proposal for departmental, college and university approval: http://research.latech.edu/resources/proposal_preparation.
- Proposal budget preparation, fringe rates & federal indirect cost rates - For instructions and current rates to use when preparing your budget: http://www.latech.edu/univresearch/resources/proposal_preparation/gathering_internal_budget_numbers/.
- Forms and downloads - For current forms ranging from routing form, F&A Waiver to grant management and administration forms: http://research.latech.edu/resources/forms_downloads.

