#### **Louisiana Tech University**



### BREEZE BULLETIN

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

Nothing happens unless first a dream.

Carl Sandburg (1878-1967, American Poet)

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#### In-house Workshops

- Grants.gov June 21 @ 2pm/ #1535 Wyly Tower
- <u>Funding Sources</u> July 26 @ 2pm/#1535 Wyly Tower
- Board of Regents Overview August 23 @ 2pm/#1535 Wyly Tower

**Upcoming Deadlines** 

NSF Career submissions due July 22 to OUR (7/25 on Fastlane).

#### TECH CLOSURE



Monday July 4
Independence Day

# FEDERAL RESEACH & DEVELOPMENT FUNDING FY2011

Congressional Research Service March 23, 2011 John F. Sargent, Jr., Coordinator

#### Summary

President Obama has requested \$147.696 billion for research and development (R&D) in FY2011, a \$343 million (0.2%) increase from the estimated FY2010 R&D funding level of \$147.353 billion. Congress will play a central role in defining the nation's R&D priorities, especially with respect to two overarching issues: the extent to which the federal R&D investment can grow in the context of increased pressure on discretionary spending and how available funding will be prioritized and allocated. Low or negative growth in the overall R&D investment may require movement of resources across disciplines, programs, or agencies to address priorities. This report will be updated as Congress acts on appropriations bills that include funding for research, development and related funding.

Under the President's request, six federal agencies would receive 94.8% of total federal R&D spending: the Department of Defense (DOD, 52.5%), Department of Health and Human Services (largely the National Institutes of Health) (21.8%), National Aeronautics and Space Administration (7.4%), Department of Energy (7.6%), National Science Foundation (3.8%), and Department of Agriculture (1.7%). NASA would receive the largest dollar increase for R&D of any agency, \$1.700 billion (18.3%) above its FY2010 funding level. The DOD would receive the largest reduction in R&D funding, \$3.542 billion (4.4%) below its FY2010 level.

President Obama has requested increases in the R&D budgets of the three agencies that were targeted for doubling in the America COMPETES Act and its reauthorization, and by President Bush under his American Competitiveness Initiative using FY2006 R&D funding as the baseline.

## BREEZE BULLETIN

### **NEW GRANTS AWARDED**

| PI/Co-PI                   | Title  | Funding Agency                                       | \$ Award-      |
|----------------------------|--|--|----------------|
| Steven Jones               | REU: Undergraduate Experiences in Micro/Nanoengineering  | NSF  | 290,000        |
| David Gullatt              | WALL 10/11/23 Turnaround School Travel   | BoR  | 7,000          |
| Pedro Derosa               | LaSPACE: GSRA/Steven Baker   | NASA thru LaSPACE                                    | 8,333          |
| Melinda Bryan              | Asymmetric Directional Microphone Fittings for Individuals With an Asymmetric Hearing Loss                 | Seimens Hearing<br>Instruments<br>Susan G. Komen for | 983.32         |
| Tanya Sims                 | Increasing Breast Cancer Awareness through Service Learning  | the Cure   | 523.35         |
| M.Tyree/W.Palmer           | Downsville Community Forestry Education Program: Tree Identification and Mapping of Bryan Park             | La. Dept. of Agricul-<br>ture & Forestry             | 3,892          |
| Niel Crews                 | LaSPACE Fellowship/Matt Hartmann   | NASA thru LaSPACE                                    | 8,333          |
| March 2011                 |  |  | 315,175.6      |
| Edward Bell                | Alabama Rehabilitation Training Services   | Alabama Dept of<br>Rehab Srvcs                       | 60,000         |
| Leland Weiss               | CAREER: Ambient Thermal Energy Harvesting for Power Generation   | NSF  | 400,000        |
| Sandra Zivanovic           | Surface Plasmon Resonance for Photovoltaic Device Efficiency Aug-  | BoR  | 10,000         |
| Shengnian Wang             | Label-free Cell Sorting by Optical Forces and Microfluidics  | BoR  | 10,000         |
| Thea Edwards               | Distribution and Physiology of Phytoestrogens  | BoR  | 10,000         |
| G.Beer/L.Keith-<br>Vincent | LA GEAR UP Explorers Camps (Summer Learning Camps)   | USDE/LaSIP   | 227,578        |
| Glenn Beer                 | LaCAMPS 2011 (Management)  | USDE/LaSIP   | 315,480.5      |
| Schilling/Dornier/<br>Beer | Louisiana Tech/LA GEAR UP Sports Medicine Camp   | USDE/LaGEARUP  | 115,161.5<br>0 |
| April 2011                 |  |  | 1,148,220      |
| Schillinger/Beer           | Building Bridges to the Future Camp  | USDE/LaSIP   | 99,562         |
| Pam Moore                  | Nursing Capitation   | ULS/BoR  | 9,442          |
| Allouche/Alam              | Tensile and Flexural Creep Testing of Aqua-Pipe Liner as per Astm D  | Sanexen  | 20,252         |
| Despina Davis              | LaSPACE GSRA: Bryan Cox - Integrating Nanowire Magnetic Sensors  | NASA/LaSPACE   | 5,000          |
| Angela Kennedy             | Manpower Training in Electronic Health Record (EHR) Use through Community Colleges in the Delta Region     | American HIM Assoc. Foundation/DHHS                  | 9,000          |
| Tyree/Dillaway             | Metabolic Acclimation and Carbon-use Efficiency of Short-Rotation  | BoR  | 83,911         |
| Allouche/Vaidya/<br>Saber  | Design, Fabrication and Testing of a Low Cost, Highly Durable, 'Green'<br>Median Barrier                   | LTRC   | 30,000         |
| Jaganathan/Saber           | An Ultra Low Cost Wireless Sensor Network for Real-Time Monitoring of<br>Steel Ropes in Cable Stay Bridges | LTRC   | 30,000         |
| May 2011                   |  |  | 287,167        |
|                            |  | FY 2010-2011 YTD                                     | 14,749,92      |

#### LINKS TO FINDING RESEARCH FUNDING OPPORTUNITIES

NSF includes Social Sciences, CAREER, etc.: http://www.nsf.gov/funding/pgm\_list.jsp?org=NSF&ord=date.

Grants.gov (National Institutes of Health, Dept. of Energy, etc.): http://www.grants.gov/applicants/find\_grant\_opportunities.jsp.

Infoed/Spin use keyword search (state, federal, & foundation opportunities): http://www.infoed.org/new\_spin/spinmain.asp.

Foundation Center (Philanthropy News Digest & Funding Opportunities): http://foundationcenter.org/pnd/.

USDA Rural R&D Grants: http://www.rurdev.usda.gov/RD\_Grants.html

Bioengineering deadlines (multiple agencies—Stanford School of Medicine web page): http://med.stanford.edu/rmg/funding/funding\_digest\_05\_20\_11.html.

### PROPOSALS SUBMITTED

| FILE # | PI                       | Co-PI 's                   | TITLE  | AGENCY   | \$ Requested |
|--------|--------------------------|----------------------------|--|--|--------------|
| 11-209 | Allouche, Erez           | Patil, K/<br>Eklund S.     | Cleco Biomass/Rodemacher   | Cleco Power  | 25,254       |
| 11-210 | Stammerjohan,<br>William | Martin, R.                 | The Effects of Procedural Injustice  | The Center for<br>Audit Quality                            | 7,680        |
| 11-211 | O'Neal, Patrick          | Evans, Katie               | Quality Control Towards An Integrated System for Cancer Therapeutics   | NIH  | 300,000      |
| 11-212 | Que, Long                |                            | An Integrated Microsystem for Controlled<br>Drug Effects Analysis Using Real-Time La-<br>bel-Free Electrical Measurement                               | NSF  | 358,934      |
| 11-213 | Que, Long                |                            | Enhancing the Energy Harvesting Efficiency: Integrating Nobel Metallic Nanostructures  | NSF  | 397,934      |
| 11-214 | Wang, Jay                |                            | Development of New Technology for Pile<br>Testing and Quality Control During Pile<br>Driving   | LTRC   | 30,000       |
| 11-215 | Wang, Jay                |                            | Erosion and Slope Stability Improvement Using Marsh Grass Partina Alternaflora for Riparian Restoration in Coastal Area of Lou- isiana                 | La. Sea Grant Pro-<br>gram/Gulf of Mexi-<br>co             | 240,688      |
| 11-216 | Pierce, Latoya           | Gollop-Brown,<br>Lou'uan   | Cultural Mosiac: An Exploration of the Self and Others   | NEH  | 124,187      |
| 11-217 | Jaganathan, Arun         | Saber, Aziz                | An Ultra Low Cost Wireless Sensor Network<br>for Real-Time Monitoring of Steel Ropes in<br>Cable Stay Bridges  | LTRC   | 30,000       |
| 11-218 | Mills, David             | Mainardi, D/<br>Murray, E. | Louisiana Tech's RET Site: Creating Crricula and Careers Through Collaboration, Inquiry & Innovation   | NSF  | 498,856      |
| 11-219 | Crews, Niel              | Guilbeau, Eric             | Feasibility of Isoflux Heating/Sensing for Rapid Pathogen Detection  | NIH  | 290,023      |
| 11-220 | Crews, Niel              |                            | NSTRF Fellowship: Development of a Rapid DNA Analysis System for Space Application & Exploration of Radiation Effects                                  | NASA   | 66,000       |
| 11-221 | Allouche, Erez           | Vaidya, S./<br>Saber A.    | Design, Fabrication and Testing of a Low<br>Cost, Highly Durable, 'Green' Median Barrier   | LTRC   | 30,000       |
| 11-222 | Wasiuddin,<br>Nazimuddin |                            | A Simple Absorption Test for Evaluating the Effectiveness of Amine Anti-Strip Additives  | LTRC   | 30,000       |
| 11-223 | Wasiuddin,<br>Nazimuddin |                            | A Novel Mechanism-based Moisture Susceptibility Test Method for Asphalt Mixes  | LTRC   | 30,000       |
| 11-224 | Wasiuddin,<br>Nazimuddin |                            | A Simple Performance Test (Sweep Test) for Chip Seal Design (Asphalt-Aggregate Compatibility)  | LTRC   | 30,000       |
| 11-225 | Gourd, Jean              |                            | BAIT'D: Biology-inspired Agent-based Insider Threat Detection  | DHS  | 561,293      |
| 11-226 | Murimi, Mary             | Kim, Yeonsoo               | Childhood Food Insecurity Assessment from<br>Selected Communities in Maryland and Lou-<br>isiana: Household Characteristics and Cop-<br>ing Strategies | University of Ken-<br>tucky Center for<br>Poverty Research | 499,947      |

# BREEZE BULLETIN

### PROPOSALS SUBMITTED (CONT'D FROM PAGE 3 . . .)

| FILE # | PI                        | Co-PI 's                                 | TITLE  | AGENCY   | \$        |
|--------|---------------------------|--|--|--|-----------|
| 11-227 | Kennedy, Angela           |  | Manpower Training in Electronic Health Record (EHR) Use through Community Colleges in the Delta Region   | American Health<br>Information Man-<br>agement Associa-<br>tion Foundation | 18,000    |
| 11-228 | Bell, Edward              |  | Alabama Rehabilitation Training Services   | Alabama Dept. of Rehab Svcs  | 60,000    |
| 11-229 | Tims, Heath               | Turner, Galen                            | ITEST Strategies: Developing Critical Cyber<br>Skills for North Louisiana Middle School<br>Students  | NSF  | 1,000,000 |
| 11-223 | Tims, Heath               | Boyd, Rhon-                              | Ottudents  | NOI  | 1,000,000 |
| 11-230 | Grafton, Tommy            | da                                       | North Central Alliance Partners in Prevention  | SAMHSA   | 125,000   |
| 11-231 | Madden, Diane             | Keith-<br>Vincent, Lind-<br>sey          | Project LESS   | La. Environmental<br>Education Commission                                  | 2,032     |
| 11-232 | Liu, Don                  |  | Collaborative Research: Flood Risk Modeling of Hurricanes and Storm Surges   | BoR/NASA   | 56,995    |
| 11-233 | Wang,<br>Shengnian        |  | Eletrophoretic Regulating Macromolecule<br>Dynamics for Polymer Flows  | ACS  | 100,000   |
| 11-234 | Crews, Niel               |  | Travel to NASA Ames Research Center  | BoR/TGEF   | 1,200     |
| 11-235 | Davis, Despina            |  | LaSPACE GSRA: Bryan Cox - Integrating Nanowire Magnetic Sensors into Microfilters  | LaSPACE  | 5,000     |
| 11-236 | Keith-Vincent,<br>Lindsey | Beer, Glenn                              | Project INVEST   | La. Dept of Wildlife & Fisheries   | 25,000    |
| 11-237 | Murimi, Mary              | Kim,<br>Yeonsoo                          | Improving Lincoln Parish Schools' Food Environment   | USDA   | 299,994   |
| 11-238 | Beer, Glenn               |  | Monroe City/Ouachita Parish MSP 2011   | La Dept. of Edu  | 30,754    |
| 11-239 | Gourd, Jean               |  | The Spicule Model: A Visual Malware Identification and Classification Method   | DOD  | 31,612    |
| 11-240 | Beer, Glenn               | Keith-<br>Vincent/<br>Crews/<br>Mainardi | IDEA Place & Summer Science Institute & LA GEAR UP Partnership   | NASA   | 51,803    |
| 11-241 | Crews, Niel               |  | LaSPACE Fellowship/Matt Hartmann   | LaSPACE/NASA   | 8,333     |
| 11-242 | Smith, James              | Merchant,<br>David                       | Louisiana Project "Providing Real Opportunities for Innovative Learning Experiences (Profile)"   | US Dept. of Labor  | 455,430   |
| 11-243 | Mahoney, Kevin            |  | Implicit Leadership Theories, Attribution Theory and the Deepwater Horizon Oil Spill: Who Dun Dat  | Southern Manage-<br>ment Associations                                      | 10,000    |
| 11-244 | Allouche, Erez            | Alam,<br>Shaurav                         | Experimental Evaluation of Soil-Pipe Friction<br>Coefficients for Coated Steel Pipe<br>(Polyurethane, Cement Mortar and Pre-<br>Fabricated Plastic Tape Coating Systems) | Northwest Pipe<br>Corp.  | 34,770    |
| 11-245 | Allouche, Erez            | Vaidya,<br>Saiprasad                     | Pickle Jar Test for 'Reactamine Et' - a 100%<br>Solids Aromatic Polyurea Coating Product   | Carboline Co.  | 8,500     |
| 11-246 | Dai, Weizhong             |  | Mathematical Modeling & Simulation of the<br>Drug Delivery System Using Stents   | LBRN   | 9,150     |
| 11-247 | Palmer, James             | Hegab,<br>Hisham                         | Advanced Computation & Experimental Approaches for Gas Mist Separators   | LA BoR OPT-IN<br>Program (LA EP-<br>SCoR)                                  | 50,000    |

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

| FILE # | PI                       | Co-PI 's               | TITLE  | AGENCY  | \$        |
|--------|--------------------------|------------------------|--|---|-----------|
| 11-248 | Guice, Les               |                        | Advanced Certifications & Training for Technology (ACTT)   | IWC   | 1,000,026 |
| 11-249 | Allouche, Erez           | Kunal/Eklund           | Development of a Highly Durable "Green" Inorganic Polymer Concrete With Commercial Potential for Sustainable UrbanInfrastructure Projects in the Gulf Coast Region | BoR OPT-IN                                      | 70,000    |
| 11-250 | Atkison, Travis          | Turner/Tims            | Cyber-ICE: Louisiana Tech's IC ACE in National Security Studies  | Office of the Director of National Intelligence | 1,978,373 |
| 11-251 | Merchant, David          |                        | First National Bank Bienville Parish   | La. Workforce<br>Commission                     | 63,709    |
| 11-252 | Feng, June               | Mills, David           | Travel to NSF/NIH for resubmission of CAREER proposal info   | BoR/TGEF  | 2,400     |
| 11-253 | Turner, Galen            | Tims, Heath            | Louisiana Tech's Computing Education for the 21st Century Program  | NSF   | 1,000,000 |
| 11-254 | Weiss, Leland            | Hegab H./<br>O'Neal C. | Materials and Devices for High-Efficiency Solid State Energy Conversion  | BoR/EPSCoR                                      | 1,680,303 |
| 11-255 | DeCoster, Mark           | Null/Lvov              | IGERT: Creative Science and Engineering Through Blending of Artistic, Biological, and Computational Studies (ABCs)   | NSF   | 0         |
| 11-256 | Allouche, Erez           | Alam,<br>Shaurav       | Numerical Simulation of Long-Term Strains at Fold Locations in Aqua-Pipe Liner   | Sanexen Environ-<br>mental Sercies,<br>Inc.     | 9,882     |
| 11-257 | Leangsuksun,<br>Chokchai | Cahoy, Dex-<br>ter     | SciDAC Institute for Resilience and Fault Tolerance  | DOEnergy  | 875,000   |
| 11-258 | Moore, Pamela            |                        | Nursing Capitation 2010-2011   | BoR   | 9,442     |
| 11-259 | Zivanovic, Sandra        | Genov,<br>Dentcho      | Surface Plasmons Concept for Next Generation Solar Cells   | US Dept of Energy                               | 681,859   |
| 11-260 | Allouche, Erez           | Alam,<br>Shaurav       | Tensile and Flexural Creep Testing of Aqua-Pipe<br>Liner as per Astm D 2990  | Sanexen Environ-<br>mental Svcs, Inc.           | 10,370    |
| 11-261 | Allouche, Erez           |                        | Alyssa Watts: Experimental Examination of the Resistance of Geopolymer Concrete to Alkali-Silica Reaction (ASR)  | BoR/SURE/NSF                                    | 5,000     |
| 11-262 | Feng, June               |                        | Measurement of the Cellular ATP, Oxygen Consumption, Glutathionylated and Carbonylated Proteins in Brain and Blood Sample of the Alzheimer's Transgenic Mice       | LBRN  | 16,650    |
| 11-263 | Edwards, Thea            |                        | Effects of Soybean Phytoestrogens on Reproduction of Green Cloverworms   | BoR/SURE/NSF                                    | 5,000     |
| 11-264 | Derosa, Pedro            |                        | Metha: Supervised Undergraduate Research Experience  | BoR/SURE/NSF                                    | 5,000     |
| 11-265 | Derosa, Pedro            |                        | Lama: Supervised Undergraduate Research Experience   | BoR/SURE/NSF                                    | 5,000     |
| 11-266 | Wick, Collin             |                        | Guiterrez: Supervised Undergraduate Research Experience  | BoR/SURE/NS                                     | 5,000     |
| 11-267 | Evans, Katie             | Watson/Camp            | OPES: Making the WeB WorK  | NSF   | 199,999   |
| 11-268 | Derosa, Pedro            |                        | Supervised Undergraduate Research Experience   | BoR/SURE/NSF                                    | 5,000     |
| 11-269 | Mills, David             |                        | Ultrasonic Nebulization as a Tool for Creating<br>Multilayered, Multi-component Anti-Infective<br>Nanocoatings   | BoR/SURE/NSF                                    | 5,000     |

# BREEZE BULLETIN

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

| FILE # | PI                         | Co-PI 's                             | TITLE  | AGENCY  | \$        |
|--------|----------------------------|--------------------------------------|--|---|-----------|
| 11-270 | Mills, David               |                                      | Novel Electrospun Collagen-Polycaprolactone Composite Scafolds for Tissue Engineering  | BoR/SURE/NSF  | 5,000     |
| 11-271 | Mills, David               |                                      | Effects of Various Nanocoatings on Electrospun Scaffolds for Accelerated Wound Healing   | BoR/SURE/NSF  | 5,000     |
| 11-272 | Shultz, Jeff               |                                      | Supervised Undergraduate Research Experience (Leleux)  | BoR/SURE/NSF  | 5,000     |
| 11-273 | Shultz, Jeff               |                                      | Supervised Undergraduate Research Experience (Stell)   | BoR/SURE/NSF  | 5,000     |
| 11-274 | Shultz, Jeff               |                                      | Supervised Undergraduate Research Experience (Ford)  | BoR/SURE/NSF  | 5,000     |
| 11-275 | Shultz, Jeff               |                                      | Supervised Undergraduate Research Experience (Johnston)  | BoR/SURE/NSF  | 5,000     |
| 11-276 | Shultz, Jeff               |                                      | Supervised Undergraduate Research Experience (Roser)   | BoR/SURE/NSF  | 5,000     |
| 11-277 | Shultz, Jeff               |                                      | Supervised Undergraduate Research Experience (Manual)  | BoR/SURE/NSF  | 5,000     |
| 11-278 | Shultz, Jeff               |                                      | Supervised Undergraduate Research Experience (Corbin)  | BoR/SURE/NSF  | 5,000     |
| 11-279 | Shultz, Jeff               |                                      | Supervised Undergraduate Research Experience (Kajor)   | BoR/SURE/NSF  | 5,000     |
| 11-280 | Wasiuddin, Nazi-<br>muddin |                                      | Effectiveness of a Wax-based Warm Mix Additive on Lower Compaction Temperatures Using Suprepave Gyratory Compactor                           | BoR/SURE/NSF  | 5,000     |
| 11-281 | Paun, Mihaela              |                                      | AMBER-Applications in Molecular Biology From<br>Economics and Reliability  | NSF/CAREER  | 497,886   |
| 11-282 | Jaganathan, Arun           | Simicevic, Ne-<br>ven                | Characterization of Dielectric Properties of Soil for GPR Applications   | Underground Imaging Techologies                         | 2,440     |
| 11-283 | Chiu, Alan                 | Jones/O'Neal,<br>P./Harbour/<br>Paun | "A Helping Hand" - Curriculum with Neuroprosthetic Applications  | NSF   | 199,952   |
|        |                            |                                      |  | US Dept. of Com-<br>merce - Economic<br>Development Ad- |           |
| 11-284 | Norris, Dave               | Guice/Kordal                         | Louisiana Tech Proof of Concept Center  Advanced Multi-Species Detection System for  | min.  | 1,000,000 |
| 11-285 | Wilson, Chester            |                                      | RadioNuclides in Drinking Water  | PNTS, Inc.  | 30,000    |
| 11-286 | Wilson, Chester            | Crews, Niel                          | Compact MEMS Based Coded Aperture Neutron<br>Source & Time of Flight Detection Architecture<br>for Dismount EOD Detection and Classification | PNTS, Inc.  | 650,000   |
| 11-287 | DeCoster, Mark             | DeCoster, Mark                       | Low Cost Novel Screening Tools for Evaluating Cancer Drugs Using Tumor Spheroids   | NIH   | 201,207   |
| 11-288 | Shultz, Jeff               | Giorno/<br>Hindmarsh/<br>Wolf/Yule   | Improved Learning & Assessment in the Sciences by Incorporating Scientific Abstract Analysis   | NSF/TUES  | 196,194   |
| 11-289 | Wilson, Chester            | Crews, Niel                          | Louisiana Consortium for the Industrial Use of Lipid-Bearing Micro-Organisms   | BoR/DOE/<br>EPSCoR                                      | 900,000   |
| 11-290 | Selmic, Rastko             |                                      | Flexible Model for Integrated Trust Management Frame Work in Wireless Sensor Networks  | DOD/Army Re-<br>search Office                           | 89,730    |

#### ADDITIONAL GRANT FUNDING FOR EXISTING AWARDS

- M. O'Neal, PROVIDING MANAGERIAL EXPERTISE TO NETWORK FOUNDATION TECHNOLOGIES, Network Foundation Technologies, LLC. \$12,000:
- A. Saber, LOAD DISTRIBUTION AND FATIGUE COST ESTIMATES OF HEAVY TRUCK LOADS ON LOUIISANA STATE BRIDGES, LTRC \$111,652;
- E. Allouche, GEOPOLYMERIZATION POTENTIAL, Cleco Power, Inc., \$40,000;
- E. Allouche, SIPP TESTING, 3M Innovative Properties Company, \$43,000;
- T. McConathy, TRACIE REED SCHOLARSHIP, Grambling State University, \$18,750;
- L. Guice, THE LONI INSTITUTE: ADVANCING BIOLOGY, MATERIALS & COMPUTATIONAL SCIENCES FOR RESEARCH EDUCATION AND ECONOMIC DEVELOPMENT, Board of Regents through LSU \$266,484;
- T. McConathy, DOCTORAL DIVERSITY IN ENGINEERING AND THE SCIENCES AT LOUISIANA TECH UNIVERSITY, Board of Regents \$40,000;
- M. Gibson, MCINTIRE STENNIS FY 11, USDA \$131,117.
- E. Bell, ORIENTATION AND MOBILITY TRAINING, Lincoln Parish School Board \$1,263.

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#### FEDERAL R&D FUNDING FY2011 (Cont'd from pg. 1)

The Department of Energy's Office of Science would receive an increase of \$226 million (4.6%), the National Science Foundation an increase of \$551 million (8.0%), and the National Institute of Standards and Technology's core research and facilities an increase of \$48 million (7.3%).

As of the end of the 111th Congress, no regular appropriations bill had been enacted by Congress. Two of the 12 regular appropriations bills had passed the House (the Transportation, Housing and Urban Development, and Related Agencies Appropriations Act, 2011, and the Military Construction and Veterans Affairs and Related Agencies Appropriations Act, 2011); none had passed the Senate. To provide for continuity of government operations into FY2011, on September 29, 2010, the Senate passed a continuing resolution (H.R. 3081) providing funding for federal agencies through December 3, 2010, including their R&D activities, "at a rate for operations as provided in the applicable appropriations Acts for fiscal year 2010 and under the authority and conditions as provided in such acts." On September 30, 2010, the House passed H.R. 3081 and President Obama signed it into law (P.L. 111-242). Five subsequent continuing resolutions (CRs) have extended funding through December 18, 2010 (P.L. 111-290), December 21, 2010 (P.L. 111-317), March 4, 2011 (P.L. 111-322), March 18, 2011 (P.L. 112-4), and April 8, 2011 (P.L. 112-6). On February 19, 2011, the House passed H.R. 1, a full-year CR that would also make a number of reductions to specific agencies and programs from their FY2010 levels.

For the past four years, federal R&D funding and execution has been affected by mechanisms used to complete the annual appropriations process—the year-long continuing resolution for FY2007 (P.L. 110-5) and the combining of multiple regular appropriations bills into the Consolidated Appropriations Act, 2008 for FY2008 (P.L. 110-161), the Omnibus Appropriations Act, 2009 (P.L. 111-8), and the Consolidated Appropriations Act, 2010 (P.L. 111-117). Completion of appropriations after the beginning of each fiscal year may cause agencies to delay or cancel some planned R&D and equipment acquisition.

For more information on this article, go to http://www.fas.org/sgp/crs/misc/R41098.pdf (copy & paste link into browser).