

## Congressionally Directed Projects

### Funding Profile by Subprogram

(dollars in thousands)

	FY 2008 Current Appropriation	FY 2009 Original Appropriation	FY 2010 Request
Congressionally Directed Projects			
Congressionally Directed Projects	120,161	91,064	—
SBIR/STTR	—	2,623	—
Total, Congressionally Directed Projects	120,161 <sup>ab</sup>	93,687	—

### Description

The Energy and Water Development and Related Agencies Appropriations Act, 2009 included 68 congressionally directed projects within the Office of Science. Funding for these projects was appropriated as a separate funding line although specific projects may relate to ongoing work in other programmatic areas.

### Detailed Justification

(dollars in thousands)

	FY 2008	FY 2009	FY 2010
<b>Congressionally Directed Projects</b>			
▪ Advanced Artificial Science and Engineering Research Infrastructure (TX)	—	370	—
▪ Advanced Cellular and Biomolecular Imaging (PA)	479	—	—
▪ Advanced Laboratory Technology Initiative (NJ)	479	—	—
▪ Alabama A&M University Research Institute Integrated Environmental Research and Services (AL)	479	—	—
▪ Albright College Science Facilities (PA)	334	—	—
▪ Alliance for NanoHealth (TX)	717	—	—
▪ Alvernia College Scientific Instrumentation Initiative (PA)	—	555	—
▪ Barry University Institute for Collaborative Sciences Research (FL)	383	740	—
▪ Belmont Bay Science Center (VA)	239	—	—
▪ Bennett College Science and Technology Facility (NC)	956	—	—
▪ Berkshire Environmental Resources Center (MA)	239	—	—

<sup>a</sup> Reflects a reduction for the 1.6% rescission in P.L. 110–161, the Energy and Water Development and Related Agencies Appropriations Act, 2008.

<sup>b</sup> Total is reduced by \$3,462,000; \$3,091,000 of which was transferred to the Small Business Innovative Research (SBIR) program; and \$371,000 of which was transferred to the Small Business Technology Transfer (STTR) program.

(dollars in thousands)

	FY 2008	FY 2009	FY 2010
▪ Bionanotechnology: Research and Commercialization, Louisiana Tech University, Ruston (LA)	—	1,387	—
▪ Biotechnology/Forensics Laboratory (UT)	—	462	—
▪ Boston College Institute for Integrated Sciences (MA)	956	2,312	—
▪ Bronx Community College Center for Sustainable Energy (NY)	287	462	—
▪ Brown University, Brown Energy Initiative (RI)	—	925	—
▪ Bulk Production of Metallic Glass (OH)	479	—	—
▪ California State University, San Bernardino Twin Tower Project (CA)	—	555	—
▪ Cardiac Catheterization Research and Equipment (TX)	717	—	—
▪ Center for Catalysis and Surface Science At Northwestern University (IL)	—	925	—
▪ Center for Diagnostic Nanosystems, Marshall University, Huntington (WV)	—	1,850	—
▪ Center for Nanomedicine and Cellular Delivery, School of Pharmacy, University of Maryland, Baltimore (MD)	—	694	—
▪ Center for Nanomedicine at the University of Maryland in Baltimore to Support Research into New Nanoconstructs (MD)	239	—	—
▪ Center of Excellence and Hazardous Materials, Carlsbad (NM)	—	1,850	—
▪ Chemistry Building Renovation (MI)	—	462	—
▪ Cheyney University STEM Education Infrastructure (PA)	1,195	—	—
▪ Chicago Public Schools Science Laboratory Enhancement (IL)	956	—	—
▪ Chicago State University Research (IL)	956	—	—
▪ Children's Oncology Group Childhood Cancer Research (TX)	191	—	—
▪ Clemson University Cyberinstitute (SC)	—	1,387	—
▪ Climate Change Modeling Capability, Los Alamos National Laboratory, Los Alamos (NM)	—	4,625	—
▪ Clinton Junior College Science Program (SC)	—	370	—
▪ Coe College Scientific Instrumentation (IA)	861	—	—
▪ Columbus Children's Hospital Imaging Equipment (OH)	956	—	—

(dollars in thousands)

	FY 2008	FY 2009	FY 2010
▪ Contrast Media and Wound Closure Reduction Study, University of Mississippi (MS)	—	601	—
▪ Curriculum and Infrastructure Enhancement in STEM (PA)	—	462	—
▪ Decision Support Tools for Complex Analysis (DSTCA) (OH)	1,913	1,387	—
▪ DePaul University Interdisciplinary Science and Technology (IL)	239	—	—
▪ Dominican University in River Forest, Illinois for Research Related to the Role of Transglutaminases in Alzheimer's and Huntington's Diseases (IL)	573	—	—
▪ Eastern Kentucky University Chemical Research Instrumentation (KY)	287	—	—
▪ Eastern Kentucky University Equipment for New Science Building (KY)	—	925	—
▪ Eckerd College Science Center (FL)	1,913	—	—
▪ Emmanuel College Center for Science Partnership (MA)	479	—	—
▪ Energy Efficiency through the NY Industrial Retention Network (NY)	479	—	—
▪ Environmental System Center at Syracuse University (NY)	717	—	—
▪ Facilitating blood-brain barrier research, Seattle Science Foundation, Seattle (WA)	—	1,387	—
▪ Fordham University Regional Science Center (NY)	670	—	—
▪ Former Workers Medical Surveillance Programs, State University of Iowa, Iowa City (IA)	—	925	—
▪ Functional MRI Science Research, University of Vermont College of Medicine, Burlington (VT)	956	1,156	—
▪ Fusion Energy Spheromak Turbulent Plasma Experiment (FL)	—	925	—
▪ George Mason University – National Center for Biodefense and Infectious Disease (VA)	—	1,387	—
▪ Geothermal Demonstration Project (OH)	479	—	—
▪ Geothermal System at Sherman Hospital in Elgin, IL (IL)	956	—	—
▪ Germantown Biotechnology Project (MD)	1,435	—	—
▪ Good Samaritan Hospital Specialty Cancer Center (OH)	383	—	—
▪ Green Building Technologies for Lakeview Museum (IL)	191	—	—
▪ Green Energy Xchange (NC)	803	—	—

(dollars in thousands)

	FY 2008	FY 2009	FY 2010
▪ Gulf of Maine Research Institute Laboratory Upgrades (ME)	717	—	—
▪ Harney Science Center Equipment (CA)	479	—	—
▪ Hofstra University Center for Condensed Matter Research (NY)	525	—	—
▪ Hofstra University Center of Climate Study (NY)	—	462	—
▪ Idaho Accelerator Center Production of Medical Isotopes (ID)	—	925	—
▪ Idaho National Laboratory Center for Advanced Energy Studies (ID)	—	2,429	—
▪ Imaging and Oncology Equipment at Utah Valley State College (UT)	717	—	—
▪ Indiana Wesleyan University School of Nursing (IN)	239	—	—
▪ Inland Northwest Research Alliance (INRA) Water Research (WA)	1,435	—	—
▪ Instrumentation and Construction Costs for Three Students Independent Research Labs Dedicated to Biology, Chemistry and Biochemistry, and Physics at Albright College in Reading (PA)	—	370	—
▪ Intermountain Center for River Restoration and Rehabilitation, Utah State University, Logan (UT)	—	555	—
▪ Jackson State University in Jackson, Mississippi, for Bioengineering Research Training (MS)	1,913	—	—
▪ Jacksonville University Marine Science Research Institute (FL)	479	—	—
▪ Lake Granbury and Lake Whitney Assessment (TX)	479	—	—
▪ Lapeer Regional Medical Center Computerized Tomography Simulator (MI)	383	—	—
▪ Levine Children's Hospital Computerized Tomography Scanner (NC)	956	—	—
▪ Lightweight Power Supply Development (PA)	479	—	—
▪ Logan Cancer Center Equipment and Technology (UT)	956	—	—
▪ Loma Linda University Medical College Radiation Protection Program (CA)	1,913	—	—
▪ Louisiana Tech University in Ruston, Louisiana, for Research in Nanotechnology (LA)	1,435	—	—
▪ Louisville Science Center (KY)	144	—	—

(dollars in thousands)

	FY 2008	FY 2009	FY 2010
▪ Luther College Science Building, Renovation Project (IA)	717	925	—
▪ Marine Systems Research, University of Massachusetts at Boston (MA)	479	462	—
▪ Marygrove College Matters (MI)	—	185	—
▪ Materials and Energy Research Development, Tulane University, New Orleans (LA)	1,147	925	—
▪ Mathematics, Science and Technology Research and Training Lab Project (PA)	2,391	—	—
▪ Matter-Radiation Interactions in Extremes, Los Alamos National Laboratory, Los Alamos (NM)	—	6,474	—
▪ Memorial Health System, Springfield, Illinois (IL)	479	—	—
▪ Memorial Hermann Baptist Hospital Orange—1.5 Tesla Magnetic Resonance Imaging (TX)	573	—	—
▪ Michigan Geological Carbon Sequestration Research and Education Program (MI)	—	601	—
▪ Nanosystems Initiative at the University of Rochester (NY)	956	—	—
▪ Nanotechnology Research Internships in Illinois (IL)	479	—	—
▪ National Biorepository—Nationwide Children’s Hospital (OH)	—	694	—
▪ Neuroscience Research, Dominican University, River Forest (IL)	287	462	—
▪ Neurosciences Institute in Morgantown, West Virginia, to Support Molecular Genetics Research (WV)	1,913	—	—
▪ Nevada Cancer Institute in Las Vegas to Support Research of Cellular Antigens and Nuclei Acids (NV)	479	—	—
▪ New Mexico Center for Isotopes in Medicine (NM)	717	—	—
▪ New Mexico Tech University in Socorro, New Mexico, for Applied Energy Science Design (NM)	1,435	—	—
▪ New School University Green Building (NY)	1,913	—	—
▪ Next Generation Neuroimaging at Cleveland Clinic (OH)	—	462	—
▪ North Dakota State University Computing Capability, Fargo (ND)	—	5,550	—
▪ Northern Hemisphere Pierre Auger Observatory in Colorado for the Northern Hemisphere Location of a Particle Detection Observatory (CO)	956	—	—

(dollars in thousands)

	FY 2008	FY 2009	FY 2010
▪ Northwest Missouri State University in Maryville, Missouri, for the Nanoscience Education Project (MO)	1,147	—	—
▪ Notre Dame Innovation Park (IN)	750	—	—
▪ Nutley Energy Efficient Elementary Schools (NJ)	479	—	—
▪ Perry Memorial Hospital Picture Archiving and Communicating System (IL)	334	—	—
▪ Phase II Design and Construction of Sage Hall Science (FL)	479	—	—
▪ Pikeville Medical Center, Kentucky (KY)	479	—	—
▪ Pioneer Valley Life Sciences Institute Biomedical Research, Pioneer Valley Life Science Institute, Springfield (MA)	956	462	—
▪ Professional Science Master's Advanced Energy and Fuels Management Program (IL)	—	416	—
▪ Purdue Calumet Inland Water Institute (IN)	479	925	—
▪ Purdue Technology Center (IN)	1,913	—	—
▪ Rapid Detection of Contaminants in Water Supplies Using Magnetic Resonance and Nanoparticles (MA)	—	1,387	—
▪ Regenerative Medicine (IL)	—	462	—
▪ Research into Proton Beam Therapy, Seattle Cancer Care Alliance, Seattle (WA)	717	1,387	—
▪ RNAI Research, University of Massachusetts Medical School, Worcester (MA)	—	925	—
▪ Rockland Community College Science Laboratory (NY)	479	—	—
▪ Roosevelt University Biology Laboratory Equipment (IL)	670	—	—
▪ Saint Clare's Hospital (NJ)	479	—	—
▪ Saint Joseph's University Science Center Equipment (PA)	765	—	—
▪ Saint Rose Dominican Hospitals Sienna Trauma Center (NV)	479	—	—
▪ Sandia Institute for Advanced Computing Algorithms, New Mexico, for High Performance Computing and Advanced Algorithm Development (NM)	7,114	—	—
▪ Sandia Nanotechnology Engineering Center, Sandia National Laboratory, Albuquerque (NM)	—	4,625	—
▪ Scanning Near-Field Ultrasound Holography (SNFUH) Instrumentation for Non-Invasive And: Non-Destructive Imaging of Nanoparticle Interaction with Cells (IL)	—	925	—
▪ Science Education Facility Renovations, OCO (OH)	—	925	—

(dollars in thousands)

	FY 2008	FY 2009	FY 2010
▪ Science, Math, and Technology Education Initiative College of St. Elizabeth (NJ)	—	462	—
▪ Seton Hall University Science and Technology Center (NJ)	956	—	—
▪ South Carolina Lambda Rail Computer Network Portal (SC)	1,147	—	—
▪ South County Nature Preserve, Irvington, NY (NY)	239	—	—
▪ South Dakota Catalyst Group for Alternative Energy to Support Research that will Synthesize, Characterize and Scale Up Production of Catalysts Important for Energy Alternatives to Fossil Fuels (SD)	1,052	—	—
▪ Southern Methodist University Advanced Parallel Processing Center (TX)	—	925	—
▪ SPECT Imaging Instrumentation Research Initiative (IL)	—	925	—
▪ St. Thomas University–Community Outreach, Research and Training Endeavor (FL)	239	555	—
▪ Supercapacitors (NY)	—	1,387	—
▪ Sustainable Biofuels Development Center, Colorado State University, Fort Collins (CO)	334	1,387	—
▪ Technology for Print Disabled Students (FL)	1,147	—	—
▪ Texas Center for Advanced Scientific Computing and Modeling (TX)	717	681	—
▪ The Methanol Economy (CA)	1,913	—	—
▪ The National Energy Policy Institute, University of Tulsa (OK)	—	694	—
▪ Ultra-Dense Porphyrin-Based Capacity Molecular Memory For Supercomputing (CO)	—	925	—
▪ Ultra-Dense Supercomputing Memory Storage in Colorado for Further Research in this Field (CO)	956	—	—
▪ University of California, Los Angeles for the Institute for Molecular Medicine Radiation Research (CA)	5,738	—	—
▪ University of California, San Diego to Support Seismic Research (CA)	1,913	—	—
▪ University of Chicago to Research Multi-Modality, Image-Based Markers for Assessing Breast Density and Structure to Determine Risk of Breast Cancer (IL)	573	—	—
▪ University of Dubuque, Environmental Science Center (IA)	956	—	—

(dollars in thousands)

	FY 2008	FY 2009	FY 2010
▪ University of Kansas Medical Center Tele-Oncology Network (KS)	287	—	—
▪ University of Louisville Regional NMR Facility in Louisville, Kentucky, to Support Ongoing Research in Fundamental Processes of Electron Transport Systems and the Structural Biology of Proteins (KY)	956	—	—
▪ University of Maine in Orono, Maine, for Research in Integrated Forest Products Refinery Technology (ME)	956	—	—
▪ University of Massachusetts Integrative Science Building (MA)	1,913	1,850	—
▪ University of Mississippi Medical Center in Jackson, Mississippi, to Fund Research in the Areas of Increasing Efficiency by Reducing the Amount of Contrast Media Needed for Certain Procedures (MS)	573	—	—
▪ University of Nebraska Medical Center in Omaha to Conduct Nanoscale Imaging of Proteins (NE)	1,913	—	—
▪ University of Nevada, Las Vegas, Nevada Water in the 21st Century Multi-Disciplinary Research Project (NV)	956	—	—
▪ University of New Mexico in Albuquerque, New Mexico, for the Mental Illness and Neuroscience Discovery (MIND) Institute Ongoing Research into Brain Related Research Including Supporting Research of Military Personnel Suffering from Post Traumatic Stress Disorder, Depression and Traumatic Brain Injuries (NM)	11,478	11,099	—
▪ University of North Carolina Collaborative Initiative in Biomedical Imaging (NC)	956	1,387	—
▪ University of North Dakota Research Foundation, in Grand Forks to Support Antibodies Research (ND)	2,391	2,544	—
▪ University of Oklahoma in Norman Oklahoma, for the Large Scale Application of Single-Walled Carbon Nanotubes (OK)	956	925	—
▪ University of Saint Francis Science Center (IN)	689	—	—
▪ University of South Alabama Cancer Institute Oncology Medical Record System (AL)	479	—	—
▪ University of Southern Indiana Engineering Equipment (IN)	717	—	—
▪ University of the Cumberlands Science and Technology Complex (KY)	—	925	—
▪ University of Vermont in Burlington to Support Research in Agricultural, Environmental, and Biological Sciences (VT)	2,869	—	—



(dollars in thousands)

	FY 2008	FY 2009	FY 2010
▪ Urban Research Center and Greenhouse, Brooklyn (NY)	479	—	—
▪ University of Rhode Island Cyberinfrastructure (RI)	—	925	—
▪ Wake Forest University Research on Alternatives to Transplantation (NC)	956	—	—
▪ Waste Isolation Pilot Plant in Carlsbad, New Mexico, to Support Neutrino Research (NM)	1,435	—	—
▪ Westminster College Science Center (UT)	383	—	—
▪ Whittier College Science and Mathematics Initiative (CA)	—	462	—
▪ Xavier University Science Equipment (OH)	479	—	—
<b>Total, Congressionally Directed Projects</b>	<b>120,161</b>	<b>91,064</b>	<b>—</b>
<b>SBIR/STTR</b>	<b>—</b>	<b>2,623</b>	<b>—</b>
In FY 2008, \$3,091,000 and \$371,000 were transferred to the SBIR and STTR programs, respectively. FY 2009 amount shown is the estimated requirement for continuation of the SBIR and STTR programs that are mandated by congress.			
<b>Total, Congressionally Directed Projects</b>	<b>120,161</b>	<b>93,687</b>	<b>—</b>

**Explanation of Funding Changes**

	FY 2010 vs. FY 2009 (\$000)
<b>Congressionally Directed Projects</b>	
No FY 2010 funding is requested	-91,064
<b>SBIR/STTR</b>	
No FY 2010 funding is requested	-2,623
<b>Total Funding Change, Congressionally Directed Projects</b>	<b>-93,687</b>