AWARDS PROCESSED

Externally funded grants and contracts processed during July 2010

<table>
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<tr>
<th>Title</th>
<th>Investigator(s)</th>
<th>Department(s)</th>
<th>Agency</th>
<th>Award</th>
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<td><strong>Research Awards</strong></td>
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<td>Transcriptional Activation by Reorganizing Chromatin</td>
<td>B. Bartholomew</td>
<td>Biochemistry and Molecular Biology</td>
<td>USDHHS/NIH/NIGMS</td>
<td>$350,485</td>
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<td>*ACS Project SEED at SIU</td>
<td>G. Perez-Alvarado B. Lee</td>
<td>Chemistry</td>
<td>American Chemical Society</td>
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<td>Next Generation Digital Breast Tomosynthesis Scanner</td>
<td>Y. Chen</td>
<td>Electrical Engineering</td>
<td>U of North Carolina (USDHHS/NIH)</td>
<td>$58,100</td>
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<td>*Evaluating Linkages Between Habitat and Pallid Sturgeon Recruitment in the Middle Mississippi River</td>
<td>J. Garvey</td>
<td>Fisheries Center</td>
<td>US Army/ACOE</td>
<td>$234,320</td>
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<td>*Status of Paddlefish in the Lower Mississippi River</td>
<td>J. Garvey</td>
<td>Fisheries Center</td>
<td>USDI/USFWS</td>
<td>$23,999</td>
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<td>Reducing Unexplained Toxicity to Protect Sediment Quality Associated with Irrigated Agriculture</td>
<td>M. Lydy</td>
<td>Fisheries Center</td>
<td>U of CA, Berkeley (California EPA)</td>
<td>$10,980</td>
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<td>*Biodiversity Conservation for Project Mina Cobre Panama: Activities to Protect Species of Concern</td>
<td>A. Carver C. Nielsen</td>
<td>Forestry and Cooperative Wildlife</td>
<td>Minera Panama S.A.</td>
<td>$90,200</td>
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<td>Sustainable Fertilizer Use and the Protection of Water Quality Using Riparian Buffers in Southern Illinois</td>
<td>J. Schoonover K. Williard</td>
<td>Forestry</td>
<td>IDA/FREC</td>
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<td>*Tree Ring Studies of Hydroclimatic Variability in Tropical Southern Africa</td>
<td>M. Therrell</td>
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<td>Collaborative Research in IPY: Abrupt Environmental Change in the Larsen Ice Shelf System, a Multidisciplinary Approach - Marine and Quaternary Geosciences</td>
<td>S. Ishman</td>
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<td>Community College Feedback and Baccalaureate Graduation Analysis</td>
<td>L. Schilling</td>
<td>Institutional Research and Studies</td>
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<td>*Constrained Statistical Inference and Information Theory</td>
<td>B. Bhattacharya</td>
<td>Mathematics</td>
<td>NSF</td>
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<td>*Integral Representation of Langlands L. Functions</td>
<td>J. Hundley</td>
<td>Mathematics</td>
<td>NSF</td>
<td>$119,987</td>
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<td>Reduction of Auxiliary Power and Increased Generating Capacity</td>
<td>J. Mathias</td>
<td>Mechanical Engineering</td>
<td>Southern Illinois Power Co-operative</td>
<td>$6,769</td>
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<td>Development of an Effective Genital Herpes Vaccine</td>
<td>W. Halford</td>
<td>Medical Microbiology and Immunology</td>
<td>USDHHS/NIH</td>
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<td>*Regulation of Estrogen-Independent Growth by MicroRNAs in ER Positive Breast Cancer Cells</td>
<td>Y. Mo</td>
<td>Medical Microbiology and Immunology</td>
<td>Susan G. Komen Breast Cancer Foundation</td>
<td>$199,338</td>
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<td>Molecular Regulation and Role of Placenta Growth Factor</td>
<td>D. Torry</td>
<td>Medical Microbiology and Immunology</td>
<td>USDHHS/NIH/NICHD</td>
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<td>*Regulation of Gene Expression in Trans-Differentiated Human Decidual NK Cells</td>
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<td>Medical Microbiology and Immunology</td>
<td>Excellence in Academic Medicine</td>
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<td>*Establishing Tumor Stem Cell Dormancy in Bone by BMP7</td>
<td>K. Watabe</td>
<td>Medical Microbiology and Immunology</td>
<td>William E. McElroy Foundation</td>
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<td>*Exercise - Early COPD</td>
<td>J. Henkle</td>
<td>Medicine</td>
<td>Boehringer Ingelheim</td>
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<td>*Enhancing Physical Activity Adherence after Breast Cancer-Diversity Supplement</td>
<td>L. Rogers</td>
<td>Medicine</td>
<td>USDHHS/NIH</td>
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<td>Characterization and Control of Quartz Dust from Illinois Coal Mines</td>
<td>Y. Chugh</td>
<td>Mining Engineering</td>
<td>IDCEO/ICCI</td>
<td>$15,026</td>
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<td>*Characterization and Control of Quartz Dust from Illinois Coal Mines - Various Match Sources</td>
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<td>Mining Engineering</td>
<td>The American Coal Company</td>
<td>$5,000</td>
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<td>Sources and Wetting Characteristics of Respirable Silica Dust in Selected Interior Underground Coal Mines</td>
<td>Y. Chugh, K. Mondal</td>
<td>Mining Engineering, Mechanical Engineering</td>
<td>USDHHS/CDC/NIOSH</td>
<td>$139,750</td>
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<td>*Assessment of SIUC Engineered Crib for Mine Support</td>
<td>H. Gurley, Y. Chugh</td>
<td>Mining Engineering</td>
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<td>$63,473</td>
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<td>Assessment of Sealed Off Areas in Moonidih Mine, India</td>
<td>S. Harpalani</td>
<td>Mining Engineering</td>
<td>USEPA</td>
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<td>Imaging and Modeling of CO₂ Flow in Saline Aquifers</td>
<td>S. Harpalani</td>
<td>Mining Engineering</td>
<td>U of I/ISGS (USDOE)</td>
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<td>Title</td>
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<td>Children's Oncology Group (COG) Chairs Grant</td>
<td>G. Brandt</td>
<td>Pediatrics</td>
<td>USDHHS/NIH</td>
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<td>*How Immune Defenses Against Neuroblastoma Lead to Brain Injury in Pediatric OMS</td>
<td>M. Pranzatelli</td>
<td>Pediatrics</td>
<td>Ronald McDonald House Charities</td>
<td>$10,000</td>
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<td>The Glycine Receptor in an Rat Tinnitus Model: A Possible Therapeutic Target</td>
<td>D. Caspary</td>
<td>Pharmacology</td>
<td>USDHHS/NIH</td>
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<td>*Novel Biotherapeutic for Triple-Negative Breast Cancer</td>
<td>R. Elble</td>
<td>Pharmacology</td>
<td>USDHHS/NIH</td>
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<td>*Prevention of SUDEP by Serotonergic Agents in DBA/1 Mice</td>
<td>C. Faingold</td>
<td>Pharmacology</td>
<td>Citizens United for Research in Epilepsy</td>
<td>$80,000</td>
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<td>Novel Approach for Chronic Pain Treatment Using Resiniferatoxin</td>
<td>L. Premkumar</td>
<td>Pharmacology</td>
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<td>$273,686</td>
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<td>Circadian Clock Disruption: Mechanism for Dioxin-Induced Metabolic Syndrome</td>
<td>S. Tischkau</td>
<td>Pharmacology</td>
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<td>*MicroBrightField Bioscience Imaging System</td>
<td>V. Uteshev-Gaard</td>
<td>Pharmacology</td>
<td>USDHHS/NIH</td>
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<td>*The Forkhead Transcription Factor, FOXO1, and its Role in Pituitary Gland Development and Function</td>
<td>B. Ellsworth</td>
<td>Physiology</td>
<td>USDHHS/NIH</td>
<td>$218,250</td>
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<td>*Functional Role of Wnt11 in Uterine Development and Adult Function</td>
<td>K. Hayashi</td>
<td>Physiology</td>
<td>USDHHS/NIH</td>
<td>$29,704</td>
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<td>*Functional Role of the Rhox8 Homeobox Gene During Ovulation</td>
<td>J. MacLean</td>
<td>Physiology</td>
<td>USDHHS/NIH</td>
<td>$363,750</td>
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<td>Collaborative Research, LTREB: Long-Term Studies of Flowering, Fruiting and Seeding Recruitment in Neotropical Forests: Global Change, Climate Variability and Species Coexistence</td>
<td>N. Garwood</td>
<td>Plant Biology</td>
<td>NSF</td>
<td>$14,635</td>
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<td>Program in Sustainable Development in Peatland Regions</td>
<td>D. Vitt</td>
<td>Plant Biology</td>
<td>Villanova University</td>
<td>$28,894</td>
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<td>*Viticulture Research and Associated Grower Outreach Program</td>
<td>B. Taylor</td>
<td>Plant, Soil, &amp; Ag Systems</td>
<td>IDA</td>
<td>$32,000</td>
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<td>*Are Frontal Lobe Size and Executive Dysfunction Contributors to ADHD and Dyslexia?</td>
<td>M. Kibby</td>
<td>Psychology</td>
<td>USDHHS/NIH</td>
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<td>Mechanisms of Fatigue in a Chronic Viral Disease</td>
<td>L. Toth</td>
<td>Research and Faculty Affairs</td>
<td>USDHHS/NIH</td>
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<td>Developing D-Methionine as an Aminoglycoside Otoprotectant</td>
<td>K. Campbell</td>
<td>Surgery</td>
<td>USDHHS/NIH/NIDCD</td>
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<td>*OREF Clinical Development Program Spine Fellowship Grant</td>
<td>P. Freitag</td>
<td>Surgery</td>
<td>Orthopaedic Research &amp; Education Foundation</td>
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<td>*Vascutek Anaconda Stent Graft System Phse II IDE Study</td>
<td>K. Hodgson</td>
<td>Surgery</td>
<td>Terumo Cardiovascular Systems</td>
<td>$119,600</td>
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<td>Endogenous Modulation of Cochlear Injury</td>
<td>L. Rybak</td>
<td>Surgery</td>
<td>USDHHS/NIH/NIDCD</td>
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<td>*Adaptive Management of Campus Lake at Southern Illinois University,</td>
<td>M. Brooks</td>
<td>Zoology</td>
<td>IEPA</td>
<td>$55,372</td>
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<td>Carbondale</td>
<td>G. Whitledge</td>
<td>Fisheries Center</td>
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<td>Collaborative Research: Using Catastrophic Amphibian Declines to</td>
<td>M. Whiles</td>
<td>Zoology</td>
<td>NSF</td>
<td>$47,967</td>
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<td>Quantify the Ecological Consequences of Extinction</td>
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<td>Ecological Integrity of Prairie Streams as Influenced by Patch-Burn</td>
<td>M. Whiles</td>
<td>Zoology</td>
<td>Missouri Department of Conservation</td>
<td>$29,000</td>
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<td>Grazing and Riparian Protection</td>
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**Training Awards**

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<td>Engineering and Technology Talent Expansion Program at Southern</td>
<td>J. Nicklow</td>
<td>Civil Engineering</td>
<td>NSF</td>
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<td>Illinois University Carbondale (SIUC)</td>
<td>J. Tezcan</td>
<td>Civil Engineering</td>
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<td>L. Gupta</td>
<td>Electrical Engineering</td>
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<td>J. Mathias</td>
<td>Mechanical Engineering</td>
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<td>K. Pericak-Spector</td>
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<td>R. Kowalchuk</td>
<td>Educational Psychology and Special</td>
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<td>Education</td>
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<td>Foreign Language Teaching Experience</td>
<td>A. Winston-Allen</td>
<td>Foreign Languages and Literatures</td>
<td>Carbondale School District #95</td>
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<td>IGERT: Multidisciplinary, Team-Based Training in Watershed Science</td>
<td>N. Pinter</td>
<td>Geology</td>
<td>NSF</td>
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<td>and Policy</td>
<td>C. Lant</td>
<td>Geography</td>
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<td>M. Whiles</td>
<td>Zoology</td>
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<td>L. Chevalier</td>
<td>Civil Engineering</td>
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<td>S. Baer</td>
<td>Plant Biology</td>
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<td>Recreation Therapy Graduate Student for Center for Comprehensive</td>
<td>M. Malkin</td>
<td>Health Ed and Recreation</td>
<td>Center for Comprehensive Services</td>
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<td>Services</td>
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<td>Recreational Therapy Graduate Assistantship for Franklin County</td>
<td>M. Malkin</td>
<td>Health Ed and Recreation</td>
<td>Franklin Co. Juvenile Detention Center</td>
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<td>Juvenile Detention Center</td>
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<td>*Algebra Project Professional Development for Professional Developers</td>
<td>G. Budzban</td>
<td>Mathematics</td>
<td>The Algebra Project</td>
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<td>Institute - June Workshop</td>
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<td>*Algebra Project Teacher Professional Development Institute - July Workshop</td>
<td>G. Budzban</td>
<td>Mathematics</td>
<td>The Algebra Project</td>
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<td>Rehabilitation Counselor Supervision</td>
<td>S. Robertson</td>
<td>Rehabilitation Institute</td>
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<td>Rehabilitation Counseling Consultant Group</td>
<td>T. Upton</td>
<td>Rehabilitation Institute</td>
<td>CCCS</td>
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**Other Awards**

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<td>PBS TeacherLine</td>
<td>V. Devenport, E. Spezia</td>
<td>Broadcasting Service</td>
<td>Public Broadcasting Service (USED)</td>
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<td>Afghanistan Water, Agriculture and Technology Transfer Program (AWATT)</td>
<td>T. Winters</td>
<td>College of Agricultural Sciences</td>
<td>New Mexico State University (USAID)</td>
<td>$630,607</td>
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<td>*Partnership for Improved Science Instruction and Achievement through Computational Science (PISIACS)</td>
<td>F. Mumba, M. Tsige, S. Ahmed, M. Zhu, K. Wise</td>
<td>Curriculum and Instruction Physics Electrical Engineering Computer Science Curriculum and Instruction</td>
<td>ISBE (USED/NCLB)</td>
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<td>*Adams County Children’s Mental Health Partnership</td>
<td>S. Longlett</td>
<td>Family and Community Medicine</td>
<td>Illinois Children’s Healthcare Foundation</td>
<td>$300,000</td>
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<td>*Healthy Lifestyles School Outreach Program</td>
<td>T. Smith</td>
<td>Family and Community Medicine</td>
<td>Ronald McDonald House Charities</td>
<td>$2,000</td>
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<td>*Building a Coalition to Address Asthma in Southern Illinois Counties</td>
<td>J. Fetro, D. Ratnapradipa, B. Rice</td>
<td>Health Ed and Recreation Health Ed and Recreation Health Ed and Recreation</td>
<td>IDPH</td>
<td>$10,000</td>
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<td>Wind Turbine Grant Application</td>
<td>P. Gatton, J. Harrell</td>
<td>Plant &amp; Service Operations</td>
<td>IDCEO (USDOE)</td>
<td>$500,000</td>
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<td>Woody Hall Window Replacement Grant Proposal</td>
<td>P. Gatton, J. Harrell</td>
<td>Plant &amp; Service Operations</td>
<td>IDCEO (USDOE)</td>
<td>$38,005</td>
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<td>SIMA Project</td>
<td>J. Hamman</td>
<td>Political Science</td>
<td>Southern Illinois Mayors Association</td>
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<td>Upward Bound FY2011</td>
<td>A. Lester</td>
<td>Upward Bound</td>
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<td>State Leadership - Career and Technical Education Curriculum Project</td>
<td>E. Freeburg</td>
<td>Workforce Education</td>
<td>ISBE (USED)</td>
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<td>State Leadership - Illinois Student Information System</td>
<td>E. Freeburg</td>
<td>Workforce Education</td>
<td>ISBE (USED)</td>
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<td>AFA, CFP Certification Examination and Pre-Test Revision</td>
<td>J. Sullivan</td>
<td>Workforce Education</td>
<td>American Fence Association</td>
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### Summary of Fiscal Year 2011 Awards Received to Date

*excludes Financial Aid Office awards*

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<th>Fiscal Year 2010 Awards as of July 2009</th>
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<td>Research</td>
<td>(29) $4,557,274</td>
<td>(24) $3,002,670</td>
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<td>Training</td>
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<td>Other</td>
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<td>Federal</td>
<td>(25) $8,321,859</td>
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<td>State</td>
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<td>Foundation</td>
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<tr>
<td>Other</td>
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<td>(41) $9,175,064</td>
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