Adams, Douglas E; mechanical engineering, from General Motors Corp, $183,500, “Elastomeric Suspension Link Bushing/Mount Characterization.”

Adams, Douglas E; mechanical engineering, from North Carolina State University, $44,950, “Semiwave Multidisciplinary University Research Initiative (MURI): Sound and Electromagnetic Interacting Wave; Modification 7 to Grant 105024.”

Alam, Muhammad A; electrical & computer engineering, from Columbia University, $166,643, “High Efficiency Nanosystems for Photovoltaics: Moving Beyond the Shockley-Quasier Limit; Amendment 4.”

Aliaga, Daniel G and Niyogi, Devdutta S; computer science, agronomy, from National Science Foundation, $552,410, “Strong Cities: Simulation Technologies for the Realization of Next Generation Cities.”

Allebach, Jan P and Bouman, Charles A; electrical & computer engineering, from Hewlett Packard SBY PO Payment Request, $750,000, “Print Quality Improvement.”

Anderson, William E and Xia, Guoping; aeronautical & astronautical engineering, from IN Space, LLC, $172,246, “Amendment 1 — Combustion Stability Measurement and Prediction [Grant 105724].”

Applegate, Bruce M; food science, from Elanco Animal Health, $9,400, “Finalyse Testing Agreement.”

Applegate, Todd J; animal sciences, from Maple Leaf Farms Inc., $18,000, “Duck Research.”

Avramova, Larisa V; biological sciences, from Antech Diagnostics, $21,478, “Scale Up Recombinant Protein Expression for the BioCD.” (a Discovery Park award — Bindley Bioscience Center)

Bagchi, Saurabh; electrical & computer engineering, from Lawrence Livermore National Laboratory, $40,000, “Root Cause Analysis of Faults in Parallel Systems.”

Balakrishnan, Venkataramanan; electrical & computer engineering, from Latin America Scholarship Program of American Universities (LASPAU), $38,615, “2012 Becas Jose De Caldas Fellowship for Jose Rivera Miranda (Colciencias).”

Balakrishnan, Venkataramanan; electrical & computer engineering, from Purdue University Special Initiative Program, $20,894, “Shema, Alain.”

Banuelos, Rodrigo; mathematics, from U.S. Department of Education, $177,688, “Graduate Assistance in Areas of National Need (GAANN) 2010 U.S. Doctorates in Mathematics; Action 3 for Grant 104501.”

Bayley, William G; chemistry, from Annette M Maier, $300, “Instrumentation Van Project.”

Beckerman, Janna L; botany & plant pathology, from Indiana Arborists Association, Inc., $6,000, “Indiana Arborists Association, Inc.”

Ben-Amotz, Dor; chemistry, from National Science Foundation, $292,463, “Interfacial Water-Mediated Structural Transformations.”

Bertoline, Gary R; Dyrenfurth, Michael J; Herrick, Robert J and Newton, Kathryn A; technology - administration, industrial technology, electrical & computer engineering technology, from U.S. Department of Education, $66,796, “Dual MS Degrees Focused on Technology, Innovation & Sustainability; Action 4 for Grant 103972.”

Bigelow, Cale A; agronomy, from Agrotrian International LLC, $6,000, “Putting Greens Research.”

Birch, Deborah I; student services — North Central campus, from U.S. Department of Education, $304,624, “Success through Education.”


Blatchley, Ernest R; civil engineering, from Citizens Energy Group, $24,290, “Design and Validation Protocol for Large-Scale UV Disinfection Systems for Municipal Wastewater: Quantification of UV Dose-Response Behavior, Including Variability.”

Boltsasseva, Alexandra; Narimanov, Evgeni E and Shalaev, Vladimir M; electrical & computer engineering, from Army Research Office, $150,000, “Unlocking New Physics with Improved Plasmonic Materials; Modification 2 for Grant 105573,” (a Discovery Park award — Birck Nanotechnology Center)

Bortoletto, Daniela and Shipsey, Ian P; physics, from Fermi National Accelerator Laboratory, $199,120, “U.S. Compact Muon Solenoid (CMS) Operations at Large Hadron Collider (LHC) (Upgrade).”

Bowling, Laura C and Frankenberger, Jane R; agronomy, agricultural & biological engineering, from Wabash River Enhancement Corp, $16,500, “Installation of Two-Stage Ditch and Bioreactor at Throckmorton-Purdue Agricultural Center.”

Brightman, Andrew O; biomedical engineering, from Indiana University Purdue University at Indianapolis, $34,386, “2012-13 Joint MDPhD Program for Graduate Support — Wan, Qiaoqiao.”

Brightman, Andrew O; biomedical engineering, from Indiana University Purdue University at Indianapolis, $36,295, “2012-13 Joint MDPhD Program for Graduate Support — Qiao, Shaoyu.”

Bruce, Robert G; mechanical engineering technology, from The Boeing Company, $9,995, “Boeing Drilling Process Testing.”

Buczkowski, Grzegorz A; entomology, from Access Business Group International LLC, $3,000, “Multi-Sponsored .”

Bullock, Darcy M; civil engineering, from Edward C Levy Co, $3,000, “Joint Transportation Research Program (JTRP) Supplementary Research Account.”

Bullock, Darcy M; civil engineering, from Edward C Levy Co, $2,000, “Joint Transportation Research Program (JTRP) Supplementary Research Account.”

Bullock, Darcy M; civil engineering, from Edward C Levy Co, $300, “Joint Transportation Research Program (JTRP) Supplementary Research Account.”
Bullock, Darcy M; civil engineering, from Edward C Levy Co, $4,200, “Joint Transportation Research Program (JTRP) Supplementary Research Account.”

Cai, Zhiquiang; mathematics, from National Science Foundation, $180,000, “Efficient, Reliable, and Robust a Posteriori Error Estimators of Recovery Type.”

Caldwell, Barrett S; industrial engineering, from Multi-Sponsored Industrials, $1,000, “Indiana Space Grant Consortium (INSGC) Affiliate Dues.”

Camberato, James J; agronomy, from Multi-Sponsored Industrials, $10,000, “Multi-Sponsored.”

Capponi, Agostino; industrial engineering, from The Institute for Financial Markets, $15,000, “Measuring and Controlling Systemic Risk.”

Chandrasekar, Srinivasan; Compton, W D; Jamieson, Leah H and Troumbel, Kevin P; industrial engineering, college of engineer administration engineering experiment, materials engineering, from National Science Foundation, $599,938, “Modulation-Assisted Machining.”

Chen, Jue; biological sciences, from Howard Hughes Medical Institute, $944, “The Howard Hughes Medical Institute (HHMI) Supply Account.”

Chen, Qingyan; mechanical engineering, from American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), Inc., $10,000, “American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) Fellowship for Jin Mingang.”

Chen, Weinong W; aeronautical & astronautical engineering, from Alion Contracting, $1,360,000, “Multiscale Experiments and Computational Modeling of Transparent Ceramic and Glass Armors.”

Chen, Weinong W; aeronautical & astronautical engineering, from University of Delaware, $40,000, “Materials in Extreme Dynamic Environments (MEDE) Collaborative Research Alliance; Amendment 1.”

Chen, Yong P; physics, from National Institute of Standards & Technology, $124,857, “Quantum Electronic Metrology in Graphene Nanostructures.” (a Discovery Park award — Birck Nanotechnology Center)

Chiu, George T and Allebach, Jan P; mechanical engineering, electrical & computer engineering, from Lexmark International Inc, $85,000, “Media Project.”

Choi, Kyoushin; chemistry, from National Science Foundation, $20,000, “Modification 5 - Powering the Planet: a Chemical Bonding Center in the Direct Conversion of Sunlight into the Chemical Fuel [Grant 103440].”

Cooks, Robert G; chemistry, from National Science Foundation, $76,500, “Strengthening Forensic Science through Connections with the Analytical Sciences.” (a Discovery Park award — Bindley Bioscience Center)

Cooks, Robert G; chemistry, from U.S. Department of Energy, $21,786, “Preparation of Chemically Functionalized Surfaces through Ion Soft Landing and Their Utilization in Heterogeneous Reactions.” (a Discovery Park award — Bindley Bioscience Center)

Corum, Christine L; mechanical engineering technology, from R.L. Roudebush Veterans Administration Medical Center, $28,250, “2010-11 Intergovernmental Personnel Assignment (IPA) Agreement.”

Crawford, Melba M; engineering administration engineering experiment, from Semiconductor Research Corporation (SRC) Education Alliance, $30,500, “Semiconductor Research Corporation (SRC) Education Alliance 2012-2013.”

Davies, Patricia; mechanical engineering, from National Aeronautics and Space Administration, $200,000, “Assessment of Noise Metrics for Application to Large Civil Tilt Rotor Flight Operation.”

Davis, Jerry K; comparative pathobiology, from PHS Food and Drug Administration, $100,699, “FDA Assignment-Intergovernmental Personnel Agreement.”

Davisson, Vincent J; material engineering, from University of Notre Dame, $16,221, “Baumann, Heidi M.”

Doucette, Suzanne C; chemistry, from National Science Foundation, $500,000, “Facult Early Career Development (CAREER): Synthesis and Fundamental Organometallic Reactivity of Low-Valent Uranium Alkyls.”

Drenan, Ryan M; medicinal chemistry & molecular pharmacology, from Brain & Behavior Research Foundation, $60,000, “Cholinergic Regulation of Habenula Microcircuits and Downstream Dopamine Transmission.”

Drnevich, Vincent P; civil engineering, from Edward C Levy Co, $1,137, “Joint Transportation Research Program (JTRP) Supplementary Research Account.”

Dunford, Benjamin B; management, from Ross Graduate Fellowship-Assistantship, $1,394, “Perrigino, Matthew.”

Earley, Paul C; management, from Winifred B. Billsland Endowment, $16,221, “Baumann, Heidi M.”

Ebert, David S and Elmqvist, Lars Niklas E; electrical & computer engineering, from U.S. Department of Homeland Security, $300,000, “Visual Analytics for Security Applications (VASA)” (a Discovery Park award — Discovery Park administration.)

Ebert, David S; electrical & computer engineering, from U.S. Coast Guard, $54,708, “Interactive Display of Operational Performance Assessment Report (OPAR) for Mobile Devices (Interactive OPAR – iOPAR)” (a Discovery Park award — Discovery Park administration.)

Ejeta, Gebisa; agronomy, from University of Nebraska-Lincoln, $75,000, “Breeding Sorghum for Improved Resistance to Striga and Drought.”

Ejeta, Gebisa; agronomy, from University of Nebraska-Lincoln, $65,000, “Biotechnological Approaches to Genetic Analyses and Exploitation of Striga Resistance in Crop Plants.”

El-Azab, Anter A; nuclear engineering, from Idaho National Laboratory, $200,000, “Support of the Center for Material Science of Nuclear Fuel: A DOE Energy Frontier Research Center; Amendment 1.”


Fernandez-Juricic, Esteban; biological sciences, from Department of the Army, $46,517, “Effects of Military Training with Dogs on the Reproductive Behavior and Breeding Success of California Least Terns and Snowy Plovers; Amendment 1.”
Ferris, Virginia R and Faghihi, Jamal: entomology, from North Central Soybean Research Program, $20,000, “Improving Management of Soybean Cyst Nematode through Extension Demonstration and Outreach Phase II.”

Ferruzzi, Mario: food science, from Latin America Scholarship Program of American Universities (LASPAU), $36,118, “2012 Becas Jose De Caldas Fellowship for Darwin Ortiz (LASPAU Fulbright).”

Frampton, Pam M: graduate studies in education — Calumet campus, from Academic Partnerships, $5,000, “Learning at the Speed of Light: Deep Learning and Accelerated Online Graduate Courses.”

Francisco, Joseph S and Kais, Sabre: chemistry, from National Science Foundation, $180,000, “Radical Chemistry on Cloud and Aerosol Surfaces.”

Freed, Andrew M: earth & atmospheric sciences, from National Science Foundation, $148,000, “Collaborative Research: Reorganization of Stresses Beneath Greater Tokyo after the 2011 Tohoku-Oki M9 Earthquake.”

Garimella, Suresh V: mechanical engineering, from Latin America Scholarship Program of American Universities (LASPAU), $37,523, “2012 Becas Jose De Caldas Program Fellowship for Julian Castillo Chacon (LASPAU Fulbright).”


Garimella, Suresh V: mechanical engineering, from National Science Foundation, $8,000, “[UCRC: on Compact, High-Performance Cooling Technologies Research — Research Experience for Undergraduates (REU) Supplement.”

Garimella, Suresh V: mechanical engineering, from National Science Foundation, $155,440, “NSF Industry/University Cooperative Research Center on Compact, High-Performance Cooling Technologies Research-Inc Grant 106029.”


Gibson, Kevin D: botany & plant pathology, from Ohio State University, $62,518, “Mental Models and Participatory Research to Redesign Extension Programming for Organic Weed Management.”

Goforth, Reuben R: forestry & natural resources, from U.S. Geological Survey, $26,499, “Correlating Asian Carp eDNA and/or Microbial Tracking Technologies with Telemetry Data in the Wabash River.”

Golden, Robert W: radiological & environmental management, from PHS-Food and Drug Administration, $2,500, “FDA Standards Project.”

Gulen, Huseyin: management, from Ross Graduate Fellowship-Assistantship, $1,394, “Wang, Xue.”

Gulen, Huseyin: management, from Ross Graduate Fellowship-Assistantship, $1,394, “Kim, Jin Hee.”


Hamaker, Bruce R: food science, from The Thailand Research Fund, $4,800, “Bench Fee - Phatcharee Kittusaban.”

Hamaker, Bruce R: food science, from University of Nebraska-Lincoln, $75,000, “Product and Market Development for Sorghum and Pearl Millet in West Africa-Purdue Research Foundation (PRF)-102.”

Handwerker, Carol A and Blendell, John E: materials engineering, from Savannah River Nuclear Solutions LLC, $40,000, “Whisker Experimentation Support.”

Handwerker, Carol A: materials engineering, from National Science Foundation, $675,784, “Integrative Graduate Education and Research Traineeship (IGERT): Global Traineeship in Sustainable Electronics; Amendment 1 for Grant 106000.”


Harriger, Bradley C: mechanical engineering technology, from El Camino College, $59,526, “Advanced Aerospace Manufacturing Education and Training Initiative Year 3; Grant 104797.”


Heeg, Marlene O: pharmacy — administration, from Auxilium Pharmaceuticals, Inc, $2,000, “2012-2013 National Hypogonadism Educational Initiative.”

Heeg, Marlene O: pharmacy — administration, from Multi-Sponsored Industrials, $50,000, “2012 IBD Centers of Educational Expertise and National Initiative.”


Hertel, Thomas W: agricultural economics, from Multi-Sponsored Industrials, $19,650, “Global Trade Analysis Project (GTAP) Consortium.”

Hertel, Thomas W: agricultural economics, from Multi-Sponsored Industrials, $24,650, “Global Trade Analysis Project (GTAP) Consortium.”


Hooiser, Stephen B: animal disease diagnostic laboratory, from Indiana Department of Natural Resources, $10,800, “Diagnostic Evaluation of Chronic Wasting Disease in White-Tailed Deer.”


Irudayaraj, Joseph M and Kirchmaier, Ann L; agricultural & biological engineering, biochemistry, from National Science Foundation, $300,000, “Single Cell Quantification of Splice Variants and Epigenetic Regulation of Splicing” (a Discovery Park award — Bindley Bioscience Center)

Jesiek, Brent K; engineering education, from National Science Foundation, $400,000, “Faculty Early Career Development (CAREER): Becoming Boundary Spanners: Investigating, Enhancing, and Assessing the Experiences of Early Career Engineers.”

Johnson, April J; comparative pathobiology, from Colorado State University, $71,000, “Investigation of Japanese Encephalitis Virus in Mid-Hill and Mountain Districts of Nepal: a Climate Change Perspective-Fellowship for Ajit Karna.”

Johnson, Mark C; electrical & computer engineering, from Intel Corporation, $20,000, “Intel Embedded Curriculum.”

Johnson, William G; botany & plant pathology, from DuPont Crop Protection, $11,500, “Weed Research.”

Johnson, William G; botany & plant pathology, from DuPont Crop Protection, $5,400, “Weed Research.”

Johnson, William G; botany & plant pathology, from DuPont Crop Protection, $6,000, “Weed Research.”

Johnson, William G; botany & plant pathology, from DuPont Crop Protection, $32,000, “Weed Research.”

Johnston, Cliff T; agronomy, from Washington River Protection Solutions, $10,250, “Prepare and Submit Letter Report to WRPS Based on the Draft Report Role of Aluminum Dimer and Carbonate in the Aluminum Solubility for Hanford Wastes.”

Kais, Sabre; chemistry, from National Science Foundation, $25,000, “Centers for Chemical Innovation, Phase I: Quantum Information and Computation for Chemistry.” (a Discovery Park award — Birck Nanotechnology Center)

Kalwani, Manohar U; management, from Purdue University F N Andrews Fellowship, $1,334, “Children, Jamie.”

Keener, Kevin M; food science, from Environmental Protection Agency, $10,000, “Development of a Compliance Assistance Center for the Food Processing Industry; Modification 4.”

Key, Nicole L; mechanical engineering, from Duke University, $123,156, “The Experimental Characterization of Embedded Stage Unsteady Aerodynamic Forcing Functions and Rotor Resonant Response for a Multistage Compressor.”

Key, Nicole L; mechanical engineering, from Duke University, $27,410, “The Experimental Characterization of Embedded Stage Unsteady Aerodynamic Forcing Functions and Rotor Resonant Response for a Multistage Compressor [Grant 205508].”

Kim, Young L; biomedical engineering, from Indiana University School of Medicine, $27,920, “Characterization of Persistent Hyperemic Foci and Their Role in Photocarcinogenesis.”

King, Galen B; mechanical engineering, from Hukam Mongia, PhD, $15,000, “Gas Turbine Combustion & Intelligent Cnt.”

Knipp, Gregory T; industrial & physical pharmacy, from PHS-Food and Drug Administration, $100,000, “Pharmacokinetic Study of Pediatric Dosage Forms in Juvenile Pigs.”

Koh, Cheng-Kok and Lu, Yung-Hsiang; electrical & computer engineering, from National Science Foundation, $50,000, “CI-ADDO-NEW: Collaborative Research: Development of Darwin Humanoid Robots for Research, Education, and Outreach; Amendment 4 for Grant 104388.”

Krupke, Christian H; entomology, from Amvac Chemical Corporation, $15,300, “Krupke - Entomology - Research.”

Krupke, Christian H; entomology, from Amvac Chemical Corporation, $19,200, “Krupke - Entomology - Research.”

Krupke, Christian H; entomology, from Amvac Chemical Corporation, $8,400, “Krupke - Entomology - Research.”

Kuhn, Richard J; biological sciences, from Latin America Scholarship Program of American Universities (LASPAU), $36,970, “2012 Becas Jose De Caldas Program for Francy Avila Arias (Colciencias).”

Li, Jianming and Connell, Sean D; Center for Paralysis Research, biomedical engineering, from National Science Foundation, $30,516, “Towards a Scientific Basis for User Centric Security Design.”

Li, Ninghui; computer science, from Google Inc, $44,000, “Android Security.”

Liu, Lu and Uhan, Nelson A; industrial engineering, from Air Force Office of Scientific Research, $72,357, “Decentralized Network Interdiction Games.”

Lopez, Roberto G; horticulture & landscape architecture, from American Floral Endowment, $10,000, “American Floral Endowment.”

Lopez, Roberto G; horticulture & landscape architecture, from Multi-Sponsored Industries, $1,750, “Multi-Sponsored Gift Account.”

Lopez, Roberto G; horticulture & landscape architecture, from Multi-Sponsored Industries, $8,000, “Multi-Sponsored Gift Account.”


Low, Philip S; chemistry, from John Thomas & Julie Ann Hurvis, $85,000, “Multi-Sponsor Voluntary Support.”
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Lu, Yung-Hsiang: electrical & computer engineering, from Georgia State University, $1,500, “NSF/Institute of Electrical and Electronics Engineers (IEEE)- Technical Committee on Parallel Processing (TCPP) Curriculum Initiative on Parallel and Distributed Computing: Proposal for Early Adopter for Fall-12.”

Lundstrom, Mark S: electrical & computer engineering, from Multi-Sponsored Industries, $37,500, “Network for Computational Nanotechnology (NCN) Membership.”

Lundstrom, Mark S: Alam, Muhammad A and Roy, Kaushik: electrical & computer engineering, from National Science Foundation, $700,000, “Network for Computational Nanotechnology - Needs Node.” (a Discovery Park award — Network for Computational Nanotechnology)

Lyutikov, Maxim Y: physics, from National Aeronautics and Space Administration, $80,000, “Crab Pulsars Very High Energy Emission Due to Inverse Compton Process.”

Lyutikov, Maxim Y: physics, from National Aeronautics and Space Administration, $45,000, “Crab GeV Flares from Corrugated Termination Shock.”

Ma, Jianxin: agronomy, from M&M Mars, $15,000, “Mars Transposable Element Analysis.”

Ma, Jianxin: agronomy, from Agricultural Research Service, $5,000, “Profiling Gene Expression in Soybean Cotyledons.”


Mansfield, Charles W: agronomy, from Bayer CropScience LP, $1,000, “Corn Research.”


McCann, Maureen C: Handwerker, Carol A; Abu-OMar, Mahdi M; Carpita, Nicholas C; Cosier, Richard A; Moon, Robert J; Mosier, Nathan S; Weaver, Gabriela C and Youngblood, Jeffrey P: biological sciences, materials engineering, chemistry, botany & plant pathology, management, agricultural & biological engineering, from SKTech/MIT Initiative, $15,000, “Center for a Sustainable Carbon Economy.” (a Discovery Park award — Energy Center)


McKee, Renee K: cooperative extension service expenses, from National Institute of Food & Agriculture, $1,000,000, “Military — Extension Internship Program.”

Meyer, Scott E: mechanical engineering, from Delphi Delco Electronics Corporation, $3,000, “Experiment for Battery Pack Enclosure with Cell Venting.”

Meyer, Scott E: mechanical engineering, from Digital Solid State Propulsion LLC, $5,000, “DSSP Mufasa Propulsion Module Vacuum Chamber Test Firing.”

Morgan, Mark T: food science, from Taylor Farms California Inc, $9,875, “Food Science Research.”


Murray, Michael D: pharmacy practice, from Regenstrief Institute for Health Care, $32,450, “Regenstrief Institute Data Core.”


Nielsen, S S: food science, from Multi-Sponsored Industries, $75, “Multi-Sponsored.”

Nielsen, S S: food science, from Multi-Sponsored Industries, $50, “Multi-Sponsored Gift Funds.”

Niyogi, Devdutta S: agronomy, from National Aeronautics and Space Administration, $30,000, “O. Kellner 10/11 National Aeronautics and Space Administration (NASA) Role of Antecedent Soil Moisture Conditions on the Reintensification of Tropical Systems with Aid of Remotely Sensed Data and Model Verification; Supplement 2 for Grant 104798.”

Njocklibi, Josue: engineering — Fort Wayne campus, from Utah State University, $24,197, “Improving Students Problem Solving in Engineering Dynamics through Interactive Web-Based Simulations and Animation Modules.”


Oakes, William C: engineering education, from Multi-Sponsored Industries, $36,000, “Engineering Projects in Community Service (EPICS).”

Ohm, Herbert W: agronomy, from Agricultural Research Service, $17,505, “Improvement of Soft Winter Wheat is Resistant to FHB and Adapted to Indiana.”


Ohm, Herbert W and Goodwin, Stephen B: agronomy, botany & plant pathology, from Agricultural Research Service, $6,063, “Genetics of Host-Pathogen Interactions Between Mycosphaerella Graminicola and Wheat.”


Olek, Jan: civil engineering, from Solidia Technologies, $10,000, “Solidia Technologies Voluntary Support”

Oliver, Haley F: food science, from Food Marketing Institute, $103,000, “Evaluation of Deep Cleaning and Sanitation Standard Operating Procedures (SSOPs) Aimed to Mitigate and Control Listeria Monocytogenes in Retail Deli.”

Oliver, Haley F: food science, from Food Marketing Institute, $50,000, “Implementation and Evaluation of Best Practices and Novel Alternative Control Strategies for Listeria Monocytogenes in Retail Deli Environments.”

Orvis, Kathryn S: youth development & agricultural education, from National 4-H Council, $14,473, “Professional Development Toolkit for 4-H Biotechnology.”


Otto, Kevin J: biomedical engineering, from University of Houston, $199,972, “Multi-Spectral 3-D Histology & Predictive Statistical Technologies for Identifying the Critical Combination of Factors Impacting Long-Term Performance of Implanted Neuroprosthetics.”
Panchal, Jitesh H; mechanical engineering, from National Science Foundation, $350,000, “Integrated Policy and Engineering Design for Complex Systems with Applications to Distribution Systems within Smart Electric Grid.”

Pastakia, Sonak D and Karwa, Rakhi; pharmacy practice, from Indiana University, $32,622, “Drug Information Center.”

Patton, Aaron J; agronomy, from Dow Agro Sciences, $5,500, “Multi-Sponsored.”

Patton, Aaron J; agronomy, from Dow Agro Sciences, $3,000, “Multi-Sponsored.”

Patton, Aaron J; agronomy, from Midwest Regional Turf Foundation, $14,500, “Turfgrass Research.”

Patton, Aaron J; agronomy, from Dow Agro Sciences, $3,000, “Multi-Sponsored.”

Pekarek, Steven D and Decarlo, Raymond A; electrical & computer engineering, from Converteam Naval Systems, Inc, $140,000, “2nd Increment of Funding (PO 00190) - Compact Power Conversion Technologies (CPCT) ONR Phase II Program Base Period [Grant 105611].”

Pekarek, Steven D and Sudhoff, Scott D; electrical & computer engineering, from National Aeronautics and Space Administration, $100,000, “Design of Electric Machines for Advanced Humanoid Robot Actuators.”

Peroulis, Dimitrios and Diamond, Harry; electrical & computer engineering, from Indiana Microelectronics LLC, $45,000, “Tunable Bandstop Filters for Suppression of Co-Site Interference and Jamming Sources.”

Peroulis, Dimitrios; electrical & computer engineering, from Memtrons Corporation, $45,000, “Tunable VHF/UHF Helical Filters.” (a Discovery Park award — Birck Nanotechnology Center)

Peroulis, Dimitrios; Mohammad, Saeed and Rhoads, Jeffrey F; electrical & computer engineering, mechanical engineering, from National Science Foundation, $500,000, “Spectrally Aware Interface Tolerant Radio Frequency (RF) Nanosystems.” (a Discovery Park award — Birck Nanotechnology Center)


Popescu, Voicu S and Adamo-Villani, Nicoletta; computer science, computer graphics technology, from National Science Foundation, $315,000, “EXP: Collaborative Research: A System of Animation Gestures for Effective Teaching Avatars.”

Porterfield, D. M; agricultural & biological engineering, from National Aeronautics and Space Administration, $488,629, “Inter-governmental Personnel Assignment (IPA) Agreement.”

Porterfield, D. M; agricultural & biological engineering, from National Aeronautics and Space Administration, $116,636, “SporoSat Mission: Investigating Biophysical Mechanisms of Plant Gravisensing Using a Lab-on-a-Chip Approach; Supplement 3 for Grant 105267.”

Pothen, Alex and Gebremedhin, Assefaw; computer science, from National Science Foundation, $300,000, “AF:Small: Combinatorial Algorithms to Enable Derivative Computations .. on Multicore Architectures.”

Purcell, Lindsey A; forestry & natural resources, from Duke Energy Foundation, $5,000, “Voluntary Support - Purcell.”

Quagrainie, Kwamina K; agricultural economics, from Michigan State University, $2,000, “North Central Regional Aquaculture Center Extension Project.”

Quagrainie, Kwamina K and Broughton, Megan C; agricultural economics, from Indiana Soybean Alliance, $5,290, “Assessing Economic Impact of Aquaculture in Indiana.”

Raghunathan, Anand; electrical & computer engineering, from National Science Foundation, $175,000, “TWC: Small: Collaborative: Enhancing the Safety and Trustworthiness of Medical Devices.”

Ramani, Karthik; Elmqvist, Lars Niklas E and Kisselburgh, Lorraine G; mechanical engineering, electrical & computer engineering, communication, from National Science Foundation, $750,000, “DIP: V-ICED - Visually-Integrated Cyber Exploratorium for Design.”

Raskin, Victor and Taylor, Julia M; English, computer & information technology, from National Science Foundation, $12,000, “Fall 2012 Symposium on Artificial Intelligence of Humor.”

Ratliff, Timothy L; Sanmiguel, Sandra F and Davis, Kauline S; comparative pathobiology, veterinary clinical science, veterinary medicine - administration, from PHS-NIH National Center for Research Resource, $10,800, “Fat Dogs and Coughing Horses: Animal Contributions Towards a Healthier Citizenry.” (a Discovery Park award — Discovery Learning Center)

Ready, Donald F; biological sciences, from PHS-NIH National Eye Institute, $1, “Cyto-skeletal Mechanisms of Retinal Development.”

Richert, Brian T; animal sciences, from Agricultural Research Service, $7,598, “Dietary Modification to Eliminate Ulcers in Sows.”

Richmond, Douglas S; entomology, from Bayer CropScience LP, $7,500, “Turfgrass Entomology Research.”


Robinson, Joseph P and Davison, Vincent J; basic medical science, medicinal chemistry & molecular pharmacology, from PHS-NIH National Cancer Institute, $404,913, “Specific Detection of Cervical Cancers Using Cytometry-Based Molecular Diagnostics.” (a Discovery Park award — Bindley Bioscience Center)

Rundell, Ann E; Buzzard, Gregory T and Harrison, Marietta L; biomedical engineering, mathematics, medicinal chemistry & molecular pharmacology, from National Science Foundation, $339,618, “Quantitative Design of Experiments to Predictably Alter Intracellular Signaling Dynamics; Amendment 3 for Grant 104093.”

Sadeghi, Farshid; mechanical engineering, from Tecumseh Compressor Group, $85,000, “Tribology Lab Research.”

Sadof, Clifford S and Nagle, Annemarie M; entomology, from U.S. Forest Service, $87,615, “Emerald Ash Borer (EAB) University: Using Web-Based Seminars Cooperatively to Provide Information About Emerald Ash Borer (EAB) and Other Invasive Forest Health Issues to Targeted Audiences.”

Sadof, Clifford S; entomology, from Indiana Department of Natural Resources, $25,000, “Emerald Ash Borer Outreach Education Project.”

Saha, Shubin K; horticulture & landscape architecture, from Multi-Sponsored Industries, $750, “Multi-Sponsored Gift Account.”

Saha, Shubin K; horticulture & landscape architecture, from Multi-Sponsored Industries, $500, “Multi-Sponsored Gift Account.”

Saha, Shubin K; horticulture & landscape architecture, from Multi-Sponsored Industries, $500, “Multi-Sponsored Gift Account.”

Sameh, Ahmed H; computer science, from Intel Corporation, $75,000, “Intel Corporation.”

Scachitti, Susan M; engineering technology — Calumet campus, from Department of Veterans Affairs, $51,700, “Yellow Belt Training for the Department of Veterans Affairs (IDIQ).”
Schaffer, Scott P: curriculum & instruction, from National Science Foundation, $2,000, “NSF Intergovernmental Personnel Assignment (IPA) - Summer 2012 Estimate.”

Scott, David E: Indiana State Chemist, from Environmental Protection Agency, $100,000, “2012 Drift Pesticide Inspector Residential Training (PIRT).”


Shakouri, Ali and Moon, Robert J: electrical & computer engineering, materials engineering, from U.S. Forest Service, $37,722, “Renewable Materials Nanotechnology Research Initiative.” (a Discovery Park award — Birck Nanotechnology Center)


Sloan, Mary Anne: technical assistance program, from Multi-Sponsored Industries, $5,400, “Multi-Sponsor Account Indiana Health Information Technology Extension Center (I-HITEC).”

Sloan, Mary Anne: technical assistance program, from Multi-Sponsored Industries, $1,360, “Multi-Sponsor Account Indiana Health Information Technology Extension Center (I-HITEC).”


Smith, Richard S: food science, from Hinsdale Farms Ltd, $2,000, “Sensory Evaluation Research.”

Smith, Richard S: food science, from Hinsdale Farms Ltd, $6,000, “Sensory Evaluation Research.”

Smith, Richard S: food science, from Hinsdale Farms Ltd, $1,000, “Sensory Evaluation Research.”

Smith, Richard S: food science, from Hinsdale Farms Ltd, $6,000, “Sensory Evaluation Research.”

Smith, Richard S: food science, from Hinsdale Farms Ltd, $8,000, “Sensory Evaluation Research.”

Smith, Richard S: food science, from Hinsdale Farms Ltd, $2,000, “Sensory Evaluation Research.”

Smith, Richard S: food science, from Hinsdale Farms Ltd, $1,000, “Sensory Evaluation Research.”

Son, Steven F: mechanical engineering, from University of Rhode Island, $75,000, “Blast Attenuation by Water Barriers.”

Song, Xiaohui C: academic technologies, from University of Illinois at Champaign-Urbana, $536,000, “XSEDE: Extreme Science and Engineering Discovery Environment.”

Stanciu, Lia A: materials engineering, from National Science Foundation, $100,000, “Collaborative Research: Engineering Design of Oxygen Rich Surfaces for Bioelectrodes.”

Stankowski, Rebecca H: liberal arts & sciences — Calumet campus, from Legacy Foundation, Inc, $2,500, “The Landscape of Lake County Food Insecurity.”

Sterkenburg, Ronald: aviation technology, from Naval Air Systems Command, $1,000, “Vacuum-Assisted Resin Transfer Molding (VARTM) Training for NAVAIR.”

Strachan, Alejandro H and Li, Chunyu; materials engineering, from The Boeing Company, $50,000, “Boeing-Purdue Project: Atoms to Aircraft Program.” (a Discovery Park award — Birck Nanotechnology Center)

Stuart, Jeffrey J: entomology, from Commission Nacional de Investigacion Cientifica y Tecnologica (Chile) (CONICYT), $155,674, “CONICYT — Campos-Medina, Veronica Alejandra.”

Suter, Daniel M: biological sciences, from National Science Foundation, $1,041,631, “Nanomechanics of Semiconductor Research Corporation (SRC) Signaling in Neuronal Growth Cones.”

Swaminathan, Vishwanathan and Neville, Jennifer I: computer science, from National Science Foundation, $163,467, “III:Small:Parametric Statistical Models to Support Statistical Hypothesis Testing Over Graphs.”

Swihart, Robert K: forestry & natural resources, from Indiana Department of Natural Resources, $121,264, “Managing Genetic Isolation Due to Habitat Fragmentation: A Model-Based Tool for Using Assisted Migration as an Aid to Recovery of Allegheny Woodrats.”

Swihart, Robert K: forestry & natural resources, from University of Illinois at Champaign-Urbana, $230,000, “Cooperative Agreement with EPA Great Lakes National Program Office; Amendment 2.”

Sypher, Howard E: communication, from Purdue University Special Initiative Program, $20,894, “Sen, Soumitro.”

Szymanski, Daniel B and Umulis, David M: agronomy, agricultural & biological engineering, from National Science Foundation, $118,566, “Collaborative Research: Novel Micromechanical and Computational Approaches to Discover the Mechanisms of Symmetry Breaking and Polarized Growth in Dictic Pavement Cells.”

Taleyarkhan, Rusi P: nuclear engineering, from Sagamore/Adams Laboratories LLC, $100,000, “Prototype Development and Assessments for Industrial Applications of Select Purdue Nuclear Engineering Metastable Fluid Research Laboratory Technologies.”

Tao, Weiguo A; Geahlen, Robert L; McLuckey, Scott A and Vitkek, Olga: biochemistry, medicinal chemistry & molecular pharmacology, chemistry, statistics, from PHS-NIH National Institute of General Medical Science, $344,906, “New Proteomic Technologies for the Analysis of Tyrosine Kinase Signaling Pathways.” (a Discovery Park award — Oncological Sciences Center)

Tarko, Andrew P and McCullough, Bobby G: civil engineering, construction engineering & management, from Indiana Criminal Justice Institute, $169,000, “Proposal to Assist Indiana Criminal Justice Institute in the Identification of Indiana’s Traffic Safety Problems — Safety Belt Survey/Indiana Codes FY 2012-13.”

Teegarden, Dorothy; Adams, Robin S; Agnew, Christopher R; Knap, Deborah W; Leary, James F; Leliivre, Sophie A and Shields, Cleveland G: foods & nutrition, engineering education, psychological science, veterinary clinical science, basic medical science, child development & family studies, from PHS-NIH National Cancer Institute, $304,750, “Interdisciplinary Cancer Prevention Research Internship.” (a Discovery Park award — Oncological Sciences Center)

Tisdale, James E: pharmacy practice, from Health & Hospital Corp of Marion County, $43,519, “Health and Hospital Corp of Marion County.”
Tobias, Justin L; economics, from Purdue Doctoral Program, $1,394, "Wai, Sebastian."

Tobias, Justin L; economics, from Purdue Doctoral Program, $1,394, "Meisner, Andrew."

Trapp, Robert J and Baldwin, Michael E; earth & atmospheric sciences, from National Science Foundation, $158,789, "Collaborative Research: Improved Understanding of Convective-Storm Predictability and Environment Feedbacks from Observations During the Mesoscale Predictability Experiment (MPEX)."

Tucker, Mark A; youth development & agricultural education, from Ohio State University, $32,604, "Development and Evaluation of Effective Educational Programs for Organic Weed Management."

Tuinstra, Mitchell R; agronomy, from University of Nebraska, $75,000, "Developing Sorghum with Improved Grain Quality, Agronomic Performance, and Resistance to Biotic and Abiotic."

Tuinstra, Mitchell R and Doerge, Rebecca W; agronomy, statistics, from Dow Agro Sciences, $12,126, "Continuous Modeling of GxE Interactions Using Environmental Data from Weather Stations to Improve Prediction on Phenotypic Data and Hybrid Place."

Tzempelikos, Athanasios; civil engineering, from Lutron Electronics Co Inc, $20,000, "Architectural Engineering - Tzempelikos."

Varma, Amit H; civil engineering, from U.S. Department of Energy, $792,572, "Modular Connection Technologies for Composite Walls in SMRs: Development and Experimental Verification."

Varma, Arvind; chemical engineering, from Latin America Scholarship Program of American Universities (LASPAU), $33,051, "2012 Becas Jose De Caldas Program Fellowship for Oscar Sanchez Medina (LASPAU Fulbright)."

Vyn, Tony J; agronomy, from Fluid Fertilizer Foundation, $19,973, "Agricultural Cropping Systems."

Wachs, Juan P; industrial engineering, from Indiana University, $39,000, "Gestonurse: a Robotic Scrub Nurse that Understands Hand Gestures." (a Discovery Park award — Bindley Bioscience Center)

Walmsley, Terrie I; agricultural economics, from U.S. International Trade Commission, $120,000, "Introducing Multiple Households in U.S. Data in Global Trade Analysis Project (GTAP)."

Wang, Nien-Hwa L; chemical engineering, from Argonne National Laboratory, $110,664, "Development of a Fundamental Understanding of Column Chromatography for the Recovery of 99Mo from Aqueous Uranium Solutions."

Watson, William R; curriculum & instruction, from Sigma XI, $900, "The Effects of Playing Persuasive Games on Affective Learning."

Watts, Susan G; management, from Purdue University F N Andrews Fellowship, $158, "Lee, Kyung Yun."

Weaver, Connie M; foods & nutrition, from Indiana University, $10,000, "Mechanism of Action of Small Molecule Protein-Protein Interaction Inhibitors." (a Discovery Park award — Bindley Bioscience Center)

Webb, Kevin J; electrical & computer engineering, from National Science Foundation, $447,205, "CIF: Small: Fast in Vivo Optical Imaging in the Heavily and Weakly Scattering Regimes."

Wise, Kiersten A; botany & plant pathology, from Agricultural Research Service, $9,992, "Identifying Resistance to Charcoal Rot and Understanding the Role of Pathogen Variability in Disease Development in the North Central US."

Wise, Kiersten A; botany & plant pathology, from E.I. DuPont de Nemours and Company, $9,000, "Voluntary Support Account."

Xu, Xianfan; Fisher, Timothy and Heister, Stephen D; engineering administration engineering experiment, from General Motors Corp, $736,730, "Development of Cost-Competitive Advanced Thermoelectric Generators for Direct Conversion of Vehicle Waste Heat into Useful Electrical Power." (a Discovery Park award — Birck Nanotechnology Center)

Ye, Peide; electrical & computer engineering, from National Institute of Standards & Technology, $35,000, "Advanced Optical Characterization of High-k /III-V Interfaces and its Relation with High-Performance III-V MOSFETs; Amendment 2." (a Discovery Park award — Birck Nanotechnology Center)

Zhang, Xiangyu and Xu, Dongyan; computer science, from Tt Government Solutions Inc., $125,000, "Modification 1 — Extracting Functional Components from x86 Binaries (Subcontract 20016918) [Grant 105824]."

Zhao, Fu and Handwerker, Carol A; mechanical engineering, materials engineering, from Environmental Protection Agency, $14,938, "Recycling of Liquid Crystal Displays for Maximum Resource Recovery."

Ziaie, Babak; electrical & computer engineering, from Brigham and Womens Hospital, $150,000, "EFRI-BioFLEX: * *Tissue Functional Components from x86 Binaries."

Notice Regarding Sponsored Program Awards

The Sponsored Program Awards list is generated by Sponsored Program Administration. Questions concerning the information contained in the Dimensions of Discovery Awards pages should be directed to Stephanie Willis at swillis@purdue.edu. **