Abbott, Angela R; consumer & family sciences, from United Way of Greater Lafayette & Tippecanoe County Inc., $1,500, “Poverty Simulation Voluntary Support.”

Abraham, John; mechanical engineering, from Caterpillar Inc., $105,812, “Grant 204421 Year 2 Funding for Development of Numerical Models for the Near-Field Physics of Diesel Sprays with Specific Focus on Flame Lift-Off Predictions.”

Akkus, Ozan; biomedical engineering, veterinary clinical science, from L-3 Services Inc., $100,000, “In Vivo Stress Fracture Model.”

Aldridge, Linda R; field extension educators, from Indiana Department of Workforce Development, $1,000, “FIRST (For Inspiration and Recognition of Science and Technology) Robotics Grant - Huntington County.”

Alexenko, Alina; aeronautical & astronautical engineering, from National Science Foundation, $400,000, “CAREER: Quantifying and Exploiting Knudsen Thermal Forces in Nano/Microsystems.”

Allen, Janet E; field extension educators, from Iowa State University, $20,960, “Coordination of Workforce and Economic Development Partnership with Iowa Technology 2011.”

Anderson, William E; Merkle, Charles L; Heister, Stephen D and Schneider, Steven P; aeronautical & astronautical engineering, from University of Maryland, $383,200, “Studies and Support of Project Constellation, Modification Q.”

Appenzeller, Joerg and Yang, Chen; electrical & computer engineering, from Army Research Office, $135,379, “Tunneling Devices from III-V Nanowire Heterostructures for High Frequency, Low-Powered RF Applications, Modification 2.” (a Discovery Park award — Birck Nanotechnology Center)

Applegate, Todd J; animal sciences, from DeGusset Corporation, $15,000, “Poultry Research.”

Bajaj, Anil K; mechanical engineering, from Ross Graduate Fellowship-Assistantship, $8,619, “Mengtian Sun.”

Bajaj, Anil K; mechanical engineering, from French Government, $7,407, “Chateaubriand Fellowship, Carrie Hall.”

Banks, Margaret K; civil engineering, from Winifred B. Bilsland Endowment, $9,587, “Darion S Grant.”

Basaran, Osman A; chemical engineering, from U.S. Department of Energy, $135,000, “Fundamentals of Electric Field Enhanced Multiphasic Separations and Analysis, Modification 18.”

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

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

Bayley, William G; chemistry, from Annette M. Maier, $1,000, “Instrument Van Project.”

Beard, Jane A; field extension educators, from Davies County Sheriffs Department, $40,713, “COPS (Community Oriented Policing Services) Funding LC Support Daviess County 2010-2011.”

Beaudoin, Stephen P; chemical engineering, from Rutgers State University of New Jersey, $41,000, “Engineering Research Center on Structural Organic Composites - Fellowship for Nyay Zarate.”

Ben-Amotz, Dor; chemistry, from National Science Foundation, $8,693, “Water-Reorganization Around Non-Polar, Polar and Ionic Solutes. Multivariate Spectroscopy, Simulation and Theory - Travel Supplement.”

Bhunia, Arun K; food science, from Bioscale Inc., $25,000, “Shuttlesworth North America.”

Biddings-Muro, Regina D; civil engineering, from CACI International Inc., $50,000, “Exxon Mobile Corp.”

Bigelow, Cale A; agronomy, from Agrotain International LLC, $1,750, “Putting Greens Research.”

Bobet, Antonio; civil engineering, from Exxon-Mobile Corporation, $50,000, “Exxon Mobile Corp.”


Borgens, Richard; Li, Jianming and Freeman, Lynetta; Center for Paralysis Research, veterinary clinical science, from Trask Trust Fund, $47,755, “Enhanced Osmotic Effect: Safety and Efficacy in Animals.”

Bortoleto, Daniela; physics, from National Science Foundation, $7,000, “Collaborative Research: Conference for Undergraduate Women in Physics.”
Bouman, Charles A; electrical & computer engineering, from Northeastern University, $83,271, “Next Generation Priorities for Model-Based Reconstruction in Scanned Baggage Security Applications.”

Boushey, Carol J; foods & nutrition, from PHS-NIH National Cancer Institute, $24,983, “Visualizing Dietary Patterns with Pattern Recognition: Formats for the Future.”

Bowling, Laura C; agronomy, from Russell O. Blosser Memorial Fellowship, $1,500, “Guoxiang Yang.”

Braile, Lawrence W; earth & atmospheric sciences, from Multi-Sponsored Industrial, $350, “SAGE Industrial.”


Brightman, Andrew O; biomedical engineering, from Indiana University School of Medicine, $7,396, “Joint PhD Program for Graduate Support - Daniel Alge.”

Bullock, Darcy M; civil engineering, from Ross Graduate Fellowship-Assistanship, $17,239, “Stuart R Mitkey.”

Bullock, Darcy M; civil engineering, from Indiana Department of Transportation, $20,000, “Apt Maintenance and Operation Cost - SPR 2351.”

Bullock, Darcy M; civil engineering, from Indiana Department of Transportation, $90,000, “An Automated Concrete Bridge Deck Delamination Detection System.”

Byrn, Stephen R; industrial & physical pharmacy, from Handa Pharmaceuticals, LLC, $9,732, “Handa Pharmaceuticals, LLC.”

Calais, Eric; earth & atmospheric sciences, from U.S. Geological Survey, $71,586, “Intraplate Strain and Stress in the North American Plate Interior: Collaborative Research with Purdue University and University of Wisconsin, Supplement 2.”

Campbell, Noll L; pharmacy practice, from Indiana University, $27,391, “Pharmaceutical Management of Delirium.”

Campbell, Wayne W and Armstrong, Cheryl L; foods & nutrition, from National Pork Board, $16,864, “The Effects of Protein Quantity and Source on Postprandial Appetite and Plasma Amino Acid Profile.”

Campbell, Wayne W; foods & nutrition, from U.S. Department of Agriculture, $234,000, “Interdepartmental Nutrition Program at Purdue Fellowship Application in the Discipline of Human Nutrition and the Area of Obesity and Diet.”

Campbell, Wayne W and Armstrong, Cheryl L; foods & nutrition, from National Cattlemen Beef Association, $10,000, “Increased Protein Intakes from Predominately Meat - Vs. Soy Protein/Pulses-Based Foods: Effects on Daily and Postprandial Appetite During Energy Restriction-Induced Weight Loss (Addendum).”

Chappell, William J; electrical & computer engineering, from Northrop Grumman Space Technology, $50,000, “Northrop Grumman Voluntary Support.”

Chapple, Clint C; biochemistry, from Egyptian Cultural and Educational Bureau, $148,069, “Egyptian Ministry of Higher Education Fellowship - El Hindawy.”

Chaubey, Indrajeet; Bowling, Laura C; Brouder, Sylvie M; Cherkauer, Keith A; Engle, Bernard A; Frankenberger, Jane R; Goforth, Reuben R; Gramig, Benjamin M; Murphy, Patrick T and Volenc, Jeffrey J; agricultural & biological engineering, agronomy, forestry & natural resources, agricultural economics, from U.S. Department of Energy, $1,592,385, “Watershed Scale Optimization to Meet Sustainable Celullose Energy Crop Demand.”

Chen, Yong P; Klimeck, Gerhard and Wu, Yue; physics, electrical & computer engineering, chemical engineering, from Intel Corporation, $150,000, “Topological Insulator Based Field Effect Transistors.” (a Discovery Park award — Birck Nanotechnology Center)


Chmielewski, Jean A; science - administration, from National Science Foundation, $142,000, “Controlling Microscale Collagen Peptide Assembly with Metal Triggers, Amendment 2.”

Cho, Jong Hyun; mechanical engineering, from National Science Foundation, $400,000, “CAREER: Understanding Biomolecular Manufacturing and Assembly of Nanocrystals - Fundamentals and Novel Properties for Solar Energy Harvesting.” (a Discovery Park award — Bindley Bioscience Center)

Christ, Sharon L; child development & family studies, from University of Miami (Florida), $15,500, “Surveillance of Mortality and Morbidity in US Workers.”

Colby, David A; medicinal chemistry & molecular pharmacology, from Trask Trust Fund, $20,000, “Stable Salts to Generate Fluoroform.”

Colby, David A; medicinal chemistry & molecular pharmacology, from American Association of Colleges of Pharmacy, $10,000, “A Strategy to Incorporate Flourine Onto Biologically Active Molecules.”

Constable, Peter D; veterinary clinical science, from VCA Antech Inc., $9,029, “Radiology Residency Support.”

Cooper, James A; electrical & computer engineering, from II-VI Foundation, $49,642, “II-VI Foundation Research Gift.”

Coppoc, Gordon L; medical education, from Indiana University Purdue University at Indianapolis, $2,000, “FY10-11 IUSM - Lafayette Student and Faculty Recruitment & Retention.”

Corum, Christine L; mechanical engineering technology, from R.L. Roubidush VA Medical Center, $75,023, “2010-11 IPA Agreement.”

Coutelil, Laurent L; veterinary clinical science, from Novus Nutrition Brands, $6,140, “A Pilot Study on the Effect of Aleria(TM) Supplementation on Airway Function of Horses with Heaves.”

Cox, Monica F; engineering education, from Norfolk State University, $59,856, “Integrative Graduate Education and Research Traineeship Program in Magnetic and Nanostructured Materials.”

Cushman, Mark S; medicinal chemistry & molecular pharmacology, from University of Illinois at Chicago, $208,937, “Novel Antibiotic Development for Biodefense.”

Davey, Patricia; mechanical engineering, from Hosel University, $22,000, “Assessing Cultural Differences in Perception of Interior Sounds in Automobiles - US Data Collection.”

Davis, Susan B; Office of Engagement, from Multi-Sponsored Industrial, $10,000, “Ivy Technology Support of HH SBDC (Hoosier Heartland Small Business Development Center) CY 11.”


DeLaurentis, Daniel A; aeronautical & astronautical engineering, from The Boeing Company, $56,000, “Technology Development Support for the Meta II Program.”

Douse, Christopher D; diversity & multicultural affairs - Fort wayne campus, from Indiana Campus Compact, $423, “Educate and Motive the MLK Way: Honoring Dr. Martin Luther King, Jr’s Legacy.”

Duffy, Vincent G; agricultural & biological engineering, from Indiana University Purdue University at Indianapolis, $9,950, “Intelligent Human Vehicle Interface.”

Ebert, David S; electrical & computer engineering, from University of Texas at Austin, $211,041, “Enabling Tranformational Science and Engineering through Integrated Collaborative Visualization and Data Analysis for the National User Community, Amendment 2.” (a Discovery Park award — Discovery Park Administration)

Elliott, Stephen J; industrial technology, from National Institute of Standards and Technology, $149,335, “Research on Biometric Image Quality, Standards, and Performance.”

Eugster, Patrick T; computer science, from National Science Foundation, $80,000, “CAREER: Pervasive Programming with Event Correlation, Amendment 5.”
Fentiman, Audeen W: nuclear engineering, from Argonne National Laboratory, $13,221, “Support for Melissa Van Kleeck.”

Ferris, Jonathan C: field extension educators, from Indiana Department of Workforce Development, $1,620, “FIRST (For Inspiration and Recognition of Science and Technology) Robotics Fayette County.”

Ferruzzi, Mario: food science, from M.H. Zeigler & Sons LLC, $1,000, “Hills Pet Nutrition, Inc.”


Field, William E: agricultural & biological engineering, from Kossuth Street Baptist Church, $45, “Breaking New Ground.”

Field, William E: agricultural & biological engineering, from Kossuth Street Baptist Church, $55, “Breaking New Ground.”


Field, William E: agricultural & biological engineering, from Kossuth Street Baptist Church, $58, “Breaking New Ground.”

Field, William E: agricultural & biological engineering, from Tate & Lyle Ingredients Americas Inc., $2,500, “Farm Safety.”

Field, William E: agricultural & biological engineering, from Kossuth Street Baptist Church, $80, “Breaking New Ground.”

Finley, John P: physics, from University of Utah, $31,150, “Acceptance Testing, Characterization and Calibration of the Veritas High QE PMTs for the Upgrade Program.”

Frankel, Steven H: mechanical engineering, from Beckman Coulter Inc., $83,879, “Modeling and Simulation of Specimen Quality.”

Frankenberger, Jane R: agricultural & biological engineering, from University of Wisconsin-Madison, $72,611, “Regional Water Quality Leadership Phase 3.”

Friedman, Alan M: biological sciences, from National Science Foundation, $165,901, “III: Small: Collaborative Research: Analysis of Multi-Dimensional Protein Design Spaces with Pareto Optimization of Experimental Designs.” (a Discovery Park award — Bindley Bioscience Center)

Garimella, Suresh V: mechanical engineering, from Multi-Sponsored Industrials, $30,000, “CRTC Membership.”

Garimella, Suresh V: mechanical engineering, from Multi-Sponsored Industrials, $30,000, “2011 Cooling Technologies Research Center (CTRC).”

Garrison, James L: aeronautical & astronautical engineering, from ITT Corporation, $10,000, “Travel and Associated Expenses for Dr. James Garrison of Purdue University.”

Gibson, Kevin D: botany & plant pathology, from Ohio State University, $57,746, “Mental Models and Participatory Research to Redesign Extension Programming for Organic Weed Management.”

Gilbert, Hersh J: earth & atmospheric sciences, from D’Appolonia, $5,000, “Multi-Sponsor.”


Groll, Eckhard A: mechanical engineering, from Ecothermics Corporation, $3,500, “CO2 Compressor Research.”

Haddock, John E and Labi, Samuel: civil engineering, from Indiana Department of Transportation, $85,760, “Service Lives of Selected Pavement Rehabilitation Treatments.”

Hamaker, Bruce R: food science, from Pepsi-Cola Company, $68,000, “Relationship Between Frito Lay Potato Variety Composition and Oil Uptake During Frying of Potato Chips.”

Harbin, Sherry L: basic medical science, from Cook Biotech Inc., $51,512, “Subcutaneous Angiogenesis into Porcine Small Intestinal Submucosa: Multiple Formulations of Biomaterial Constructs.”

Hartman, Nathan W: computer graphics technology, from Rolls-Royce Corporation, $100,000, “Phase VII Rolls Royce / Purdue PLM Collaboration Proposal.”


Hastak, Makarand: civil engineering, from Indiana Department of Transportation, $80,000, “Performance Evaluation of Crack Sealing and Filling Materials with Pavement Preservation Treatments.”

Hastak, Makarand: civil engineering, from Indiana Department of Transportation, $80,000, “Project Evaluation Methods for Pavement Preservation Treatments.”

Heathman, Gary C: agronomy, from Agricultural Research Service, $36,066, “Acquisition of Goods and Services - Eunjin Han.”


Heister, Stephen D: aeronautical & astronautical engineering, from Allison Advanced Development Company, $20,000, “Rolls-Royce University Technology Center in High Mach Propulsion-2010.”


Hirst, Peter M: horticulture & landscape architecture, from Egyptian Cultural and Educational Bureau, $148,069, “Egyptian Government Scholarship, Mobhles Elsysy.”

Hoagland, Lori A: horticulture & landscape architecture, from Washington State University, $31,500, “Plant Breeding and Agronomic Research for Organic Hop Production Systems.”

Hooser, Stephen B: animal disease diagnostic laboratory, from Indiana Department of Natural Resources, $11,412, “Diagnostic Evaluation of Chronic Wasting Disease in White-Tailed Deer.”

Howe, Katherine M: botany & plant pathology, from University of Wisconsin-Madison, $5,007, “Great Lakes Early Detection Network.”

Howe, Katherine M: botany & plant pathology, from Multi-Sponsored Industrials, $50, “Katherine Howe Gift Fund.”

Howe, Katherine M: botany & plant pathology, from Multi-Sponsored Industrials, $30, “Katherine Howe Gift Fund.”
Hu, Jianghui; electrical & computer engineering, from Indiana University, $2,914, “Simulation Model for Mental Health Systems Planning - Tu- tion Reimbursement for Harpreet Singh Banvait; Amendment 1.”

Hutcheson, John S; Office of Engagement, from Multi-Sponsored Industrials, $2,779, “Purdue Center for Regional Development.”

Hutcheson, John S; Office of Engagement, from Multi-Sponsored Industrials, $2,911, “Multi-Sponsored Account (PCRD).”

Hutcheson, John S; agriculture - administration, from Multi-Sponsored Industrials, $411, “Fee and Travel Expenses Associated with the Purdue Center for Regional Development-Ed Morrison.”

Hutcheson, John S; Office of Engagement, from Multi-Sponsored Industrials, $512, “Multi-Sponsored Account (PCRD).”

Hutzel, William J.; mechanical engineering technology, from National Renewable Energy Laboratory, $50,000, “Purdue Solar Decathlon.”

Irudayaraj, Joseph M; agricultural & biological engineering, from Biomerieux Inc., $80,000, “Pathogen Detection Using SERS (Surface-Enhanced Raman Scattering) Biosensors.” (a Discovery Park award — Bindley Bioscience Center)

Ishii, Mamoru; nuclear engineering, from Bechtel Bettis, Inc., $111,076, “Three Dimensional Interfacial Area Transport Equation (IATE) Development PO 3017044; Amendment 5.”

Ivanisievic, Albena; biomedical engineering, from National Science Foundation, $423,416, “Understanding of Molecular Phenomena on Planar and Nanosized GaP Surfaces Under Different Environmental Conditions.”

Jackson, Scott A; agronomy, from United Soybean Board, $12,500, “United Soybean Board Fellowship, Trulie Campbell.”

Jiao, Dan; electrical & computer engineering, from Office of Naval Research, $49,000, “Rigorous and Fast Physics-Based Co-Simulation of Device-Structure-Material Interactions in Complex, Nonlinear; Modification 3.”

Keener, Kevin M; food science, from Griffith Laboratories, $500, “Multi-Sponsored Gift.”

Keener, Kevin M; food science, from Trask Trust Fund, $44,228, “Sterilization of Medical Devices Using In-Package Ionization.”

Killian, Charles E; computer science, from National Science Foundation, $82,778, “CAREER: Analyzing Distributed Systems Behavior Using Repeated Execution.”

Kim, Chang H; Andrisani, Ourania M and Hogenesch, Harm; comparative pathobiology, basic medical science, veterinary medicine - administration, from PHS-NIH National Institute of Allergy and Infectious Diseases, $298,319, “FoxP3+ Regulatory T Cells of Mucosal Tissues.”

Kim, Young L; biomedical engineering, from U.S. Department of Energy, $120,000, “Meso- scopic Tumor Margin Visualization for Breast Conserving Surgery.”

Koh, Cheng-Kok and Lu, Yung-Hsiang; electrical & computer engineering, from National Science Foundation, $100,000, “CI-ADDO-NEW (Community Infrastructure Development, Deployment and/or Operations): Collaborative Research: Development of Darwin Humanoid Robots for Research, Education - Amendment 1.”

Kranz, Sibylle; foods & nutrition, from Dry Bean Research Program, $10,000, “Long-Term Effect of Increased Legume Intake on Body Weight Status and Cardiovascular Disease Risk Factors in Preschool-Age Children from Various Socio-Demographic Backgrounds.”

Kranz, Sibylle; foods & nutrition, from Kellogg Company, $25,000, “Kranz Kellogg.”

Lasker, Gregory C; biomedical engineering, from Advanced Process Combinatorics, $45,742, “Optimizing Operating Room Efficiency.”

Leary, James F; basic medical science, from Christopher Columbus Fellowship Foundation, $25,000, “Research in Nanomedicine.”

Lechtenberg, Victor L; Office of Engagement, from U.S. Department of Health and Human Services, $404,775, “I-HITEC Regional Extension Center Supplement.”

Lin, Tsang Long and Wu, Ching C; Animal Disease Diagnostic Laboratory, from Indiana Department of Natural Resources, $78,096, “Di- agnostic Evaluation and Fish Health Inspection of Indiana Fish.”

Linton, Richard H; food science, from Almond Board of California, $7,000, “Multi-Sponsored/ Research.”

Liu, Shuang; health sciences, from PHS-NIH National Cancer Institute, $237,214, “TC-Labeled Cyclic RGDfK Tetrarmers for Breast Cancer Imaging.”

Lloyd, Lyle L; educational studies, from John M or Helen H Arvidson (Individual Donor), $100, “AAC Program Support.”

Lloyd, Lyle L; educational studies, from John M or Helen H Arvidson (Individual Donor), $200, “AAC Program Support.”

Lopez, Roberto G; horticulture & landscape architecture, from Multi-Sponsored Industrials, $6,500, “Multi Sponsored Gift Account.”

Lopez, Roberto G; horticulture & landscape architecture, from American Floral Endowment, $7,500, “American Floral Endowment.”


Lundstrom, Mark S; electrical & computer engineering, from Massachusetts Institute of Technology, $535,984, “Theory, Modeling, and Simulation of Nanotransistors, Amendment 2.”

Lundstrom, Mark S; electrical & computer engineering, from Intel Corporation, $75,000, “Intel-NCN (Network for Computational Nanotechnology) Membership.” (a Discovery Park award — Birck Nanotechnology Center)

Machaty, Zoltan and Jaeger, Laurie A; animal sciences, basic medical science, from National Institute of Food and Agriculture, $499,937, “Store-Operated Calcium Entry in Pig Oocytes.”

Manfra, Michael J; physics, from Alcatel-Lucent, $50,000, “Alcatel Lucent Voluntary Support.”

Mayboroda, Svitlana; mathematics, from National Science Foundation, $71,421, “CAREER: Analysis of Partial Differential Equations in Non-Smooth Media.”

McCullough, Bobby G; civil engineering, from Indiana Department of Transportation, $10,000, “Information Technology Initiatives - Software Purchase.”

Mentzer, Nathan; industrial technology, from Utah State University, $45,000, “Design Thinking and Information Gathering.”

Mesecar, Andrew D; biological sciences, from University of Illinois at Chicago, $369,622, “Novel Antibiotic Development for Biodefense.”

Michalski, Greg M; earth & atmospheric sciences, from National Geographic Society, $15,800, “The Origin of the Nitrate Deposits in the Turfan-Hami Basin, Xinjiang, China.”

Miller, Margaret A; animal disease diagnostic laboratory, from Western University of Health Sciences, $1,885, “Honorary for Animal Disease Diagnostic Laboratory.”

Minchella, Dennis J; Loudon, Marc; Chmielewski, Jean A; Hrycyna, Christine A and Sanders, David A; biological sciences, medicinal chemistry & molecular pharmacology, chemistry, from Howard Hughes Medical Institute, $400,000, “A Challenge in Life Sciences Undergraduate Education.” (a Discovery Park award — Discovery Learning Center)

Morris, Pamala V; agriculture - administration, from University of Nebraska, $14,997, “Diversity, Equity and Inclusion.”

Mustillo, Sarah A; sociology, from Vanderbilt University, $146,077, “Improving Deployment-Related Primary Care Provider Assessments of PTSD and Mental Health Conditions; Amendment 1.”

Dimensions of Discovery

Purdue University Sponsored Program Awards — January 2011
Newton, Kathryn
A; industrial technology, from University of Industrial Distribution, $20,000, “Coordination of University of Industrial Distribution Program.”

Nie, Huiling; health sciences, from University of Illinois at Chicago, $19,979, “Noninvasive in Vivo Quantification of Lead and Cadmium in Bone.”

Novak, Robert E; speech, language, and hearing sciences, from Indiana Lions Speech and Hearing Inc., $2,000, “Clinical Support for Speech-Language-Audiology Services from the Indiana Lions Club.”

Nyenhuis, John A; electrical & computer engineering, from Zimmer, $2,880, “Interactions of Zimmer Orthopaedic Implant HKTE with the Electromagnetic Fields in MRI.”

Olynk, Nicole J; agricultural economics, from Indiana Soybean Alliance, $9,962, “Feasibility Study: Alternative Agricultural Production Systems.”

Patton, Aaron J; agronomy, from Dow Agro Sciences, $600, “Multi-Sponsored.”

Patton, Aaron J; agronomy, from Dow Agro Sciences, $31,700, “Multi-Sponsored.”

Pekarek, Steven D and Decarlo, Raymond A; electrical & computer engineering, from Converteam Naval Systems Inc., $12,000, “Compact Power Conversion Technologies (CPCT) ONR Phase 1 PROGRAM.”

Pekarek, Steven D and Decarlo, Raymond A; electrical & computer engineering, from Converteam Naval Systems Inc., $30,000, “Compact Power Conversion Technologies (CPCT) ONR Phase 1 PROGRAM.”

Pekarek, Steven D; electrical & computer engineering, from ABB Corporate Research, $40,000, “ABB Fellowship in High Speed Permanent Magnet Machine Design.”

Peroulis, Dimitrios; Adams, Douglas E; Jung, Byunghoo and Sadeghi, Farshid; electrical & computer engineering, mechanical engineering, from Office of Naval Research, $35,000, “Ultra Low-Size Self-Powered Wireless Sensors for Condition Monitoring of Cracks in Aircraft Structural Components, Modification 2.” (a Discovery Park award — Birck Nanotechnology Center)

Peroulis, Dimitrios; electrical & computer engineering, from Red River Microdevices, $94,000, “Tunable Power Amplifiers.” (a Discovery Park award — Birck Nanotechnology Center)

Peroulis, Dimitrios; electrical & computer engineering, from University of California - Davis, $56,500, “Reconfigurable MEMS Filters for Cognitive Radio.” (a Discovery Park award — Birck Nanotechnology Center)

Peroulis, Dimitrios; electrical & computer engineering, from Virtual Em Inc., $168,224, “RF MEMS Switches for Self-Structuring Antennas - Phase II, Grant 104007, Amendment 1.”

Pinal, Rodolfo; industrial & physical pharmacy, from Multi-Sponsored Industrials, $35,000, “CPRR (Center for Pharmaceutical Processing Research) Consortium.”

Pizlo, Zygmunt; psychological sciences, from Sandia National Laboratories, $200,000, “Support from Sandia.”


Porterfield, D. M; agricultural & biological engineering, from Nestle, $476,000, “Smart Packaging for Tamper Detection.” (a Discovery Park award — Bindley Bioscience Center)

Post, Carol B; medicinal chemistry & molecular pharmacology, from PHS-NIH National Institute of Allergy and Infectious Diseases, $199,944, “Protein Stability and Antiviral Activity in Human Rhinovirus.”

Qi, Yuan; computer science, from National Science Foundation, $92,548, “CAREER: Scalable Bayesian Learning for Multi-Source and Multi-Aspect Data.”

Rao, Sanjay G; electrical & computer engineering, from National Science Foundation, $80,000, “CAREER: Towards Automated and Assurable Enterprise Network Migration, Amendment 2.”

Ratliff, Timothy L; Cheng, Ji-Xin; Cooks, Robert G and Crist, Scott A; Cancer Research Center, from Walther Cancer Institute Foundation Inc., $260,000, “Development of Prostate Cancer Progression Markers.”

Ratliff, Timothy L; Cancer Research Center, from Walther Cancer Institute Foundation Inc., $50,000, “Center Director Developmental Funds Award.”

Reicher, Zachary J; agronomy, from Midwest Regional Turf Foundation, $6,876, “Midwest Regional Turf Foundation.”


Rochet, Jean-Christophe; medicinal chemistry & molecular pharmacology, from PHS-NIH National Institute on Drug Abuse, $72,094, “Mechanisms of DJ-1 Protection Against Methamphetamine Neurotoxicity.”

Rogers, Marcus K; computer & information technology, from Multi-Sponsored Industrials, $1,000, “Forensic Seminars.”

Rogers, Marcus K; computer & information technology, from Multi-Sponsored Industrials, $500, “Forensic Seminars.”

Rogers, Marcus K; computer & information technology, from Multi-Sponsored Industrials, $500, “Forensic Seminars.”

Rogers, Marcus K; computer & information technology, from Multi-Sponsored Industrials, $500, “Forensic Seminars.”

Rogers, Marcus K; computer & information technology, from Multi-Sponsored Industrials, $1,500, “Forensic Seminars.”

Rogers, Marcus K; computer & information technology, from Multi-Sponsored Industrials, $1,000, “Forensic Seminars.”

Sadeghi, Farshid; mechanical engineering, from Tecumseh Compressor Group, $2,500, “Tribology Lab Research.”

Sadeghi, Farshid; mechanical engineering, from Tecumseh Compressor Group, $100,000, “Tribology Lab Research.”

Saha, Shubin K; horticulture & landscape architecture, from Monsanto Company, $3,000, “MABC Converted Phytophthora Resistant Versions of Commercial Pepper Hybrids and Commercial Product Checks for Equivalency.”

Sameh, Ahmed H; computer science, from Sandia National Laboratories, $28,043, “Support for Deaglan Halligan from Sandia National Labs.”

Santerre, Charles R; Amberg, Shannon M; Cho, Hyunyi and McCabe, George P; foods & nutrition, forestry & natural resources, communication, statistics, from National Institute of Food and Agriculture, $600,000, “Helping Childbearing-Aged Women Make Informed Decisions Regarding Seafood Consumption.”

Scharenberg, Rolf P; physics, from U.S. Department of Energy, $690,000, “The Experimental Study of the Phase Structure of Hadronic Matter, Modification 30.”

Scharf, Michael E; entomology, from Chesapeake Perl Inc., $101,964, “Identification, Production and Characterization of Novel Lignase Proteins from Termites for Denpolymerization of Lignocellulose.”
Schoenlein, William E and Van Alstine, William G; biomedical engineering, comparative pathobiology, from Medical Engineering and Development Institute Inc., $27,983, “Enteric Device Testing: Study CUI-SVAI Addendum to Grant # 202362.”

Schoonmaker, Jon; animal sciences, from West Central (Soypus), $8,000, “Beef Research.”

Shalaev, Vladimir M and Drachev, Vladimir P; electrical & computer engineering, from Science and Technology Corporation, $55,434, “Bi-Spectral Plasmonic Obscurants.” (a Discovery Park award — Birck Nanotechnology Center)

Shalaev, Vladimir M; electrical & computer engineering, from University of Pennsylvania, $111,647, “Large-Area, 3-D Optical Metamaterials with Tunability and Low Loss; Amendment 1.”


Shoffner, Melanie; English, from National Council of Teachers of English, $1,900, “Pedagogy, Passion and Preparation: Exploring the Concerns of Beginning English Teachers.”

Shukle, Richard H; entomology, from Agricultural Research Service, $34,420, “Acquisition of Goods and Services.”

Sloan, Mary Anne and Pekny, Joseph F; Technology Assistance Program, industrial engineering, from Clariant Arnett Health, $280,594, “Clariant Support of IE Faculty.”

Sloan, Mary Anne; Technology Assistance Program, from Indiana State Department of Health, $37,254, “PHSQIP Attachment 9 FY 11.”

Smith, Alan L; health & kinesiology, from Purdue University Special Initiative Program, $19,173, “Felicia E. Trembath, (2).”

Smith, Alan L; health & kinesiology, from Purdue University Special Initiative Program, $19,173, “Felicia E. Trembath, (2).”

Smith, Mary Anne and Pekny, Joseph F; Technology Assistance Program, from National Science Foundation, $1,259,559, “Midwest Crossroads AGEP (Alliances for Graduate Education and the Professoriate),” (a Discovery Park award — Discovery Learning Center)

Smith, Mjt; graduate school administration, from National Science Foundation, $1,259,559, “Midwest Crossroads AGEP (Alliances for Graduate Education and the Professoriate),” (a Discovery Park award — Discovery Learning Center)

Smith, Mjt; graduate school administration, from Purdue University Special Initiative Program, $3,403, “Andrew P. Robinson.”

Smith, Richard S; food science, from Alcoa Inc., $250, “Food Science Research.”

Smith, Richard S; food science, from Purdue University, $280,594, “Clariant Support of IE Faculty.”

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

Smith, Richard S; food science, from Hindsdale Farms Ltd, $12,000, “Sensory Evaluation Research.”

Smith, Richard S; food science, from Hindsdale Farms Ltd, $3,000, “Sensory Evaluation Research.”

Smith, Richard S; food science, from Hindsdale Farms Ltd, $3,000, “Sensory Evaluation Research.”

Smith, Richard S; food science, from Hindsdale Farms Ltd, $3,000, “Sensory Evaluation Research.”

Smith, Richard S; food science, from Hindsdale Farms Ltd, $3,000, “Sensory Evaluation Research.”

Smith, Richard S; food science, from Hindsdale Farms Ltd, $3,000, “Sensory Evaluation Research.”

Smith, Richard S; food science, from Hindsdale Farms Ltd, $3,000, “Sensory Evaluation Research.”

Smith, Richard S; food science, from Hindsdale Farms Ltd, $3,000, “Sensory Evaluation Research.”

Smith, Richard S; food science, from Hindsdale Farms Ltd, $3,000, “Sensory Evaluation Research.”

Smith, Richard S; food science, from Hindsdale Farms Ltd, $3,000, “Sensory Evaluation Research.”

Smith, Richard S; food science, from Hindsdale Farms Ltd, $3,000, “Sensory Evaluation Research.”

Smith, Richard S; food science, from Hindsdale Farms Ltd, $3,000, “Sensory Evaluation Research.”

Son, Steven F; mechanical engineering, from Ensign-Bickford Aerospace and Defense Company, $82,538, “Evaluation of Nano Energetic Materials for Semiconductor Bridge (SCB) Initiators, Phase II.”

Son, Steven F and Pourpoint, Timmoteo L; mechanical engineering, aeronautical & astronautical engineering, from Pennsylvania State University, $340,150, “Nanoeenergetics and High Hydrogen Content Materials for Space Propulsion.”

Spafford, Eugene H; Bagchi, Saurabh; Bertino, Elisa; Fahmy, Sonia A; Xu, Dongyan and Zhang, Xiangyu; CERIAS, electrical & computer engineering, computer science, from Northrop Grumman Space Technology, $242,170, “NGIT (Northrop Grumman Information Technology) Cybersecurity Research Consortium.”

Spafford, Eugene H; computer science, from John Wiley & Sons Limited England, $60,000, “CERIAS (Center for Education and Research in Information Assurance and Security) Voluntary Support.”

Straw, Mark L; animal sciences, from Agricultural Marketing Service, $18,450, “State Surveillance.”

Sullivan, John P; aeronautical & astronautical engineering, from The Boeing Company, $50,000, “Product Lifecycle Management Center of Excellence (PLM).”

Sun, Chin-Teh; aeronautical & astronautical engineering, from Universal Technology Corporation, $31,000, “On-Site Visiting Scientist.”

Sun, Chin-Teh; aeronautical & astronautical engineering, from Egyptian Ministry of Defense, $40,237, “Large-Area, 3-D Optical Metamaterials with Tunability and Low Loss; Amendment 1.”

Swaminathan, Vishwanathan; Kirshner, Sergey; Neville, Jennifer L; Si, Luo and Wang, Tao; computer science, statistics, from National Science Foundation, $24,000, “The 2011 Machine Learning Summer School at Purdue University.”

Taylor, Kevin D; electrical & computer engineering, from Indiana Department of Education, $40,000, “Project Lead the Way (PLTW) High School Certification.”

Taylor, Lynne S; industrial & physical pharmacy, from Merck Research Laboratories, $3,500, “Merck Co., Inc.”

Taylor, Lynne S; industrial & physical pharmacy, from Merck Research Laboratories, $10,000, “Merck Co., Inc.”

Thomas, Volker; child development & family studies, from Lafayette Community Development Department, $29,251, “Weed and Seed Downtown Lafayette Community Involving Families and Schools Together (FAST).”

Thompson, David H; chemistry, from PHS-NIH National Institute of General Medical Sciences, $263,936, “Bioreponsive Lipids for Intracellular Delivery.”

Thompson, Leslie E; biological sciences - Calumet campus, from Ohio State University Extension, $17,052, “Great Lakes Sea Grant Network Education and Outreach Project: Adaptive Management Needs Assessment.”

Topp, Elizabeth M; industrial & physical pharmacy, from Catalent Pharma Solutions, $50,000, “Catalent.”

Trice, Rodney W; materials engineering, from Rolls-Royce Corporation, $1,739, “Testing Agreement: Type II Hot Corrosion Testing of 4 Square Samples.”

Tseng, Charles C and Yang, Xiaoli; biological sciences - Calumet campus, elec & computer engineering - Calumet campus, from Indiana University, $29,657, “Teaching Genetics Biology with Interactive Computer Programs for High School Teachers.”


Viens, Frederi G; statistics, from National Science Foundation, $27,240, “International Conference on Malliavin Calculus and Stochastic Analysis.”

Villoria, Nelson B; agricultural economics, from Food and Agriculture Organization of the United Nations, $30,000, “Land Use Impacts of Agricultural Research.”

Vyn, Tony J; agronomy, from Fluid Fertilizer Foundation, $500, “Agricultural Cropping Systems.”

Vyn, Tony J; agronomy, from Fluid Fertilizer Foundation, $5,000, “Agricultural Cropping Systems.”

Waldorf, Brigitte S; agricultural economics, from Kinley Trust, $16,180, “The Effect of Macroeconomic Shocks on the Food Stamp Program.”

Wasyczuk, Oleg; electrical & computer engineering, from Sandia National Laboratories, $80,000, “Enabling, Scalable Microgrids with High Penetration Renewables.”

Watts, Michael W; economics, from Kazanjian, Calvin K. Economics Foundation Inc., $15,000, “Developing a Wiki Site on Using Art to Teach Economics.”
Weaver, Connie M; foods & nutrition, from Kraft Foods Global Inc., $6,000, “Corporate Affiliates Fund.”

Weiss, William J; civil engineering, from Owens-Corning Fiberglas Corporation, $3,750, “Plastic Shrinkage Evaluation of a Glass Fiber.”

Weller, Stephen C; horticulture & landscape architecture, from E.I. Du Pont De Nemours and Company, $15,000, “Research Gift.”

Whittaker, Alan D; Student Access, Transition, Success Program, from Office of Twenty-First Century Scholars, $272,024, “Twenty-First Century Scholars Program.”

Williams, Sharon R; anthropology, from Blosser, Russell O. Memorial Fellowship, $1,500, “Elizabeth J. Wirtz.”

Wise, Kiersten A; botany & plant pathology, from E.I. Du Pont De Nemours and Company, $2,000, “Wheat Disease Research.”

Wise, Kiersten A; botany & plant pathology, from E.I. Du Pont De Nemours and Company, $8,000, “Voluntary Support Account.”


Zheng, Wei; health sciences, from Multi-Sponsored Industrials, $6,000, “Industrial Support for the Xian International Neurotox Conference.”

Zheng, Wei; health sciences, from Indiana University School of Medicine, $19,923, “Support for Huisi Ai from Dr. Yun Liang.”

Zheng, Wei; health sciences, from Multi-Sponsored Industrials, $10,000, “Industrial Support for the Xian International Neurotox Conference.”

Zhu, Jian-Kang; biochemistry, from PHS-NIH National Institute of General Medical Sciences, $309,577, “Calcium Signaling and Ion Homeostasis Regulation.”

Zimmerman, Neil J; health sciences, from University of California - Santa Cruz, $118,878, “Neurologic Function in Children Exposed to Ambient Manganese.”


Zwier, Timothy S; chemistry, from National Aeronautics and Space Administration, $145,000, “Laboratory Studies of Photochemical, Photoisomerization, and Discharge-Driven Pathways to Fused-Ring; Supplement 1.”

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.