Abe, Steven R; Ainslie, Paul J and Hicks, Jennifer L; Office of Engagement, from Indiana Department of Education, $76,296, “Mathematics Indiana Science, Technology and Engineering.”

Adeola, Olayiwola; animal sciences, from DSM Nutritional Products, Inc., $52,000, “Protease Enzymes in Corn/Soy-Based Diets for Broiler Chickens.”


Alexeenko, Alina; Heister, Stephen D and Spencer, David A; aeronautical and astronautical engineering, from National Aeronautics and Space Administration, $200,000, “Distributed Attitude Control and Maneuvering for Deep Space Smallsats.”

Alexeenko, Alina; aeronautical and astronautical engineering, from Janssen Research and Development, $10,000, “Lyohub Consortium.”

Alexeenko, Alina; aeronautical and astronautical engineering, from Siemens Corporate Research Inc., $10,000, “Lyohub Consortium.”

Aliprantis, Dionysios; electrical and computer engineering, from Tesla Motors Inc, $54,583, “Novel Advanced Induction Motor Modeling for High-Performance Electric Vehicle Applications.”


Allebach, Jan P; electrical and computer engineering, from Poshmark Inc, $60,000, “Automatic Tools for Evaluating and Improving Quality of Fashion Photographs.”

Allebach, Jan P; electrical and computer engineering, from Multi-Sponsored Industrials, $30,799, “Inkjet Printing Research.”

Anderson, Gina M; field extension educators, from Community Foundation of Southern Indiana, $4,000, “My Little Farm.”

Arling, Gregory W; nursing, from University of Minnesota, $70,000, “Evaluation of Minnesota CC Initiative – Amendment to Subcontract.”

Armstrong, Shalamar D and Camberato, James J; agronomy, from Indiana Corn Marketing Council, $30,000, “Investigation of Corn Yield Improvement Following Cereal Rye Using Starter Nitrogen Fertilizer – Year 2.”


Bareinboim, Elias; computer science, from National Science Foundation, $97,784, “Faculty Early Career Development (CAREER): Approximate Causal Inference.”

Barnard, Freddie L; agricultural economics, from Julie Gable, $1,150, “Indiana Society of Farm Managers and Rural Apprais.”

Basaran, Osman A; chemical engineering, from Honeywell Inc., $25,000, “Purdue Process Safety and Assurance Center(P2sac).”

Basaran, Osman A; chemical engineering, from Phillips 66, $15,000, “Purdue Process Safety and Assurance Center(P2SAC).”

Beaulieu, Lionel J; Kumar, Indraneel; Wright, Tyler W and Zhalmnin, Andriy V; Office of Engagement, from Indiana Economic Development Association, $30,000, “Assessing and Mapping the Agricultural Assets of Indiana Counties and Regions.”


Bertino, Elisa; computer science, from Smart Information Flow Technologies, $49,971, “Mission and Information Assurance through Cyber Atomics.”

Bhave, Sunil A; electrical and computer engineering, from GE Global Research Center, $25,000, “High Frequency Resonator Technology.”

Bhunia, Arun K; food science, from National Academy of Sciences, $94,007, “Biofilm Inactivation Using Smart Antimicrobial Nanoparticle.”

Blocki, Jeremiah M; computer science, from National Science Foundation, $175,000, “CRII:SaTC: Towards the Development of Stronger Memory-Hard Functions for Secure Password Hashing.”

Bolin, Jeffrey T; Office of the Executive Vice President for Research and Partnerships, from Purdue University, $360,000, “EVPRP NIH Incentive Grants.”

Bolin, Jeffrey T; Office of the Executive Vice President for Research and Partnerships, from Purdue University, $29,526, “FY17-18 Purdue Research Foundation (PRF) Research Grant (209911).”

**Boudouris to Ejeta**

**Boudouris, Bryan W:** chemical engineering, from National Science Foundation, $100,813, “Faculty Early Career Development (CAREER): Advanced Molecular Architectures for Electronically-Active Radical Polymers.”

**Boudouris, Bryan W:** chemical engineering, from Ford Motor Company, $200,000, “Functionalized Polymer Conductors for Lithium Sulfur Batteries.”

**Bowling, Laura C:** Chaubey, Indrajeet; Biehl, Larry L; Cherkauer, Keith A; Engel, Bernard A; Frankenberger, Jane R; Gitau, Margaret W; Ma, Zhao and Prokopy, Linda S; agronomy, International Programs in Agriculture, RCAC, agricultural and biological engineering, forestry and natural resources, from Universidad Nacional De San Agustin, $618,032, “UNSA NEXUS: a Framework for Sustainable Water Management in the Arequipa Region.”

**Breur, Gert J:** veterinary clinical science, from Design Lab Inc, $12,150, “Preference Testing of Chew Toys.”

**Brewster, Amy L** and **Bartlett, Edward L:** psychological science, biological sciences, from PHS-NIH National Institute Neurological Disorders and Stroke, $381,805, “A Role for the Complement System in Seizure Induced Neuronal and Dendritic Injury.”

**Brightman, Andrew O:** biomedical engineering, from Indiana University Purdue University at Indianapolis, $19,925, “2016-17 Joint MDPhD Program for Graduate Support Alabri Elhashmi.”

**Brightman, Andrew O:** biomedical engineering, from Indiana University Purdue University at Indianapolis, $8,025, “2017 – 2018 Joint PhD Program Graduate Support – Ayeeshik Kole.”

**Brite, Elizabeth B:** Honors College, from National Geographic Society, $29,630, “Archaeological Investigations of Agriculture at Sim-Ata, Uzbekistan.”

**Brooke, Jarred M:** forestry and natural resources, from National Wild Turkey Federation, $1,000, “Voluntary Support – Brooke.”

**Brosseau-Lapre, Francoise:** speech, language and hearing sciences, from PHS-NIH National Institute on Deafness and Other Communication Disorders, $134,344, “Speech Perception in Children with and without Speech Sound Disorder.”

**Buckmaster, Dennis:** agricultural and biological engineering, from Winfield Solutions LLC, $50,000, “Oats Consortium.”

**Byrn, Stephen Robert** and **Clase, Kari L:** industrial and physical pharmacy, industrial technology, from National Institute for Pharmaceutical Technology and Education, $94,000, “Methods for Evaluation of Abuse Deterrence via Smoking.”

**Campbell, Noll L:** pharmacy practice, from PHS-NIH National Institute on Aging, $140,665, “Evaluating the Adverse Cognitive Effects of Medications.”

**Casteel, Shaun N:** agronomy, from Indiana Soybean Alliance, $65,816, “Sulfur Synergies in Soybean Management.”

**Chandramouli, Chandramouli Viswanathan:** chemical and civil engineering, from Little Calumet River Basin Development Comm, $3,000, “Hart Ditch – Little Calumet River System Hydrology and Hydraulic Modeling.”

**Chen, Weinong W:** aeronautical and astronautical engineering, from Office of Naval Research, $50,000, “Visualization of Composite Damage by Direct Energy.”

**Chipman, Shannon M:** field extension educators, from National Rifle Association of America, $1,058, “Ohio County 4-H Shooting Sports.”

**Choi, Jong Hyun** and **Mao, Chengde:** mechanical engineering, chemistry, from Office of Naval Research, $45,000, “Toward Versatile Synthetic DNA Walkers.”

**Christian, John A:** comparative pathobiology, from Western University of Health Sciences, $3,770, “Cytology Resource Center (205379).”

**Christian, John A:** comparative pathobiology, from Western University of Health Sciences, $5,655, “Cytology Resource Center.”

**Coddington, Jennifer A** and **Overholser, Suzan J:** nursing, from Indiana State Department of Health, $10,000, “ISDH 2017 Chronic Care B.”

**Cooks, Robert Graham:** Cancer Research Center, from Purdue University, $50,000, “Surgical Margin.”

**Davies, Patricia:** mechanical engineering, from Ford Motor Company, $209,525, “Modeling of Perception on Non-Stationary Wind Noise Conditions.”

**Deering, Amanda J** and **Maynard, Elizabeth T:** food science, horticulture and landscape architecture, from Iowa State University, $8,000, “Strategy for Successful Implementation of Fsma in the North Central Region through Adoption of a Systems Approach and Stakeholder Engagement Framework, AM 2; (Grant 109039).”

**Delp, Edward J:** electrical and computer engineering, from George Mason University, $210,000, “Joint Exploitation of Personal and Premises Surveillance Video.”

**Dilkes, Brian** and **Johal, Gurmukh S:** biochemistry, botany and plant pathology, from North Carolina State University, $542,277, “The Genetic and Genomic Exploration of the Maize HR Response.”

**Duvall, John N:** English, from Johns Hopkins University, $14,998, “Journal of Modern Fiction Studies.”

**Duvall, John N:** English, from Johns Hopkins University, $48,145, “Journal of Modern Fiction Studies.”

**Dyke, Shirley J:** mechanical engineering, from University of Massachusetts Dartmouth, $4,308, “Sessions on Fostering Engineering Mechanics Research Community Diversity and Inclusion.”

**Ebert, David S** and **Butzke, Christian E** and **Fulley, Timothy R** and **Schulze, Darrel G** and **Surakitbanharn, Chittayong:** electrical and computer engineering, food science, earth and atmospheric sciences, agronomy, from Universidad Nacional De San Agustin, $160,798, “UNSA NEXUS: Arequipa Sustainable Viticulture and Enology Center (AVSEC).”

**Egel, Daniel S:** botany and plant pathology, from Cox Farms Inc, $500, “Potassium Management.”

**Egel, Daniel S:** botany and plant pathology, from Kietzer Farm, Inc, $300, “Potassium Management.”

**Ejeta, Gebisa:** Brouder, Sylvie M; Burniske, Gary R; Ricker-Gilbert, Jacob E; Weaver, Connie M and Weldon, Sirje Laurel; agronomy, agricultural economics, foods and nutrition, political science, from Universidad Nacional De San Agustin, $94,230, “UNSA NEXUS:A Purdue-UNSA Initiative to Establish a Center on Food Security in Peru.”
Farkas to Hertel

**Farkas, Brian E**: food science, from Murphy, John R or TJ, $100, “Multi Sponsored Gift Fermentation.”

**Farkas, Brian E**: food science, from Richard Kawsalski, $20, “Multi Sponsored Gift Fermentation.”

**Farkas, Brian E**: food science, from Flat12 Bierwerks, $550, “Multi Sponsored Gift Fermentation.”

**Felisberto Martins Ribeiro, Bruno**: computer science, from Raytheon, $393, “Discovering Network Processes in Time-Evolving Networks.”

**Feng, Zhilan Julie**: mathematics, from National Science Foundation, $15,000, “CSMB International Conference on Mathematical Biology.”

**Field, William E**: agricultural and biological engineering, from Country Journal Publishing Co., Inc, $1,000, “Farm Safety.”


**Field, William E**: agricultural and biological engineering, from State of Maine, $1,100, “Breaking New Ground.”


**Field, William E**: agricultural and biological engineering, from Pietree Orchard, $1,100, “Breaking New Ground.”

**Field, William E**: agricultural and biological engineering, from Thomas and Cari Barfield, $200, “Breaking New Ground.”

**Figueiredo, Marxa L**: basic medical science, from PHS-NIH National Cancer Institute, $314,970, “Disrupting Tumor/Bone Malignant Interactions with Multifunctional Cytokine Sonodelivery.”

**Filley, Timothy R and Chaubey, Indrajeet**: agronomy, International Programs in Agriculture, from Universidad Nacional De San Agustin, $764,452, “UNSA NEXUS: Travel.”

**Filley, Timothy R and Chaubey, Indrajeet**: agronomy, International Programs in Agriculture, from Universidad Nacional De San Agustin, $148,150, “UNSA NEXUS: Workshop Budget.”

**Filley, Timothy R and Chaubey, Indrajeet**: agronomy, International Programs in Agriculture, from Universidad Nacional De San Agustin, $717,748, “UNSA NEXUS: Additional Funding.”

**Filley, Timothy R; Jafvert, Chad T; Johnston, Cliff T; Kong, Ningning Nicole; Leon-Salas, Walter Daniel; Schulze, Darrell G and Voyles, Richard M**: agronomy, civil engineering, library administration, engineering technology, from Universidad Nacional De San Agustin, $4,157,713, “UNSA NEXUS: Arequipa Region Soil Vulnerability, Impairment, and Health Assessment.”


**Fornay, James D**: biochemistry, from National Science Foundation, $81,554, “Research Experience for Undergraduates (REU) Site: Molecular and Biochemical Analysis of Proteins.”

**Fuchs, Philip L**: chemistry, from John Wiley and Sons Limited England, $4,000, “E-Encyclopedia of Reagents for Organic Synthesis.”

**Garimella, Suresh V**: mechanical engineering, from Apple Inc, $30,000, “Cooling Technologies Research Center (CTRC) 2018 Membership.”

**Garimella, Suresh V**: mechanical engineering, from Purdue University, $7,407, “REED: Building a Research Environment for Encumbered Data (EVPRP) (208529).”

**Garner, Allen L**: nuclear engineering, from Office of Naval Research, $10,000, “Conference Grant Proposal for 2018 Institute of Electrical and Electronics Engineers (IEEE) IPMHVC.”


**Garrison, James L**: aeronautical and astronautical engineering, from National Aeronautics and Space Administration, $219,949, “P/I Band Multi-Frequency Reflectometry Antenna for a U-Class Constellation.”

**Garrison, James L**: aeronautical and astronautical engineering, from National Aeronautics and Space Administration, $200,000, “P/I Band Multi-Frequency Reflectometry Antenna for a U-Class Constellation.”

**Gaskill, Brianna N**: animal sciences, from Animal Welfare Institute, $3,997, “Investigating the Effects of Compassion Fatigue and Personnel Attitudes on the Provision of Laboratory Animal Enrichment: A Focus on Rat Tickling.”

**Gibb, Timothy J and Oseto, Christian Y**: entomology, from Foundation for Food and Agric Res, $297,499, “Developing Public School Curricula and Training High School Students and Teachers as Ambassadors for Pollinator Protection.”

**Grillos, Tara**: political science, from Purdue University, $40,000, “Does Participation in Group Decision-Making Increase Investment in Public Goods?”

**Guan, Wenjing**: horticulture and landscape architecture, from United Agriseeds, $1,200, “General Research Activities.”

**Guan, Wenjing**: horticulture and landscape architecture, from Nunhems Seed Corporation, $1,200, “General Research Activities.”

**Hamaker, Bruce R**: food science, from PepsiCo Inc/ World Trading Co., $47,546, “Assessing the Gut Fermentative Potential of Dietary Fibers of Novel Native and Processed Snack Ingredients-Phase I.”

**Hayes, Aleshia T**: computer science, from National Science Foundation, $29,506, “Student Support for the Institute of Electrical and Electronics Engineers (IEEE) VR 2018 Doctoral Consortium.”

**Heister, Stephen D; Gore, Jay P; Pourpoint, Timmotehe L and Scalo, Carlo**: aeronautical and astronautical engineering, mechanical engineering, from Rolls-Royce, Inc, $456,000, “University Technology Center in Advanced Thermal Management Systems at Purdue University.”

**Hertel, Thomas W**: agricultural economics, from Asian Development Bank, the, $20,435, “Global Trade Analysis Project (GTAP) Consortium.”

**Hertel, Thomas W**: agricultural economics, from Environmental Protection Agency, $20,435, “Global Trade Analysis Project (GTAP) Consortium.”

**Hertel, Thomas W**: agricultural economics, from University of Hohenheim, $20,435, “Global Trade Analysis Project (GTAP) Consortium.”
Hook to Krogmeier

Hook, Tomas O and Archer, Angela S; forestry and natural resources, Illinois-Indiana Sea Grant Program, from National Oceanographic and Atmospheric Administration, $61,500, “2018 Knauss Fellowships.”

Hook, Tomas O; Beugly, Jayson S; Foley, Carolyn J; Quigrainie, Kwamena K; Salazar, Kara A; Thompson, Leslie E and Zischke, Mitchell T; forestry and natural resources, Illinois-Indiana Sea Grant Program, agricultural economics, engineering and sciences, from National Oceanographic and Atmospheric Administration, $249,900, “2018-2022 IIGS Omnibus Proposal.”

Horgan, Briony H; earth and atmospheric sciences, from Jet Propulsion Laboratory, $38,000, “Using Composition to Constrain Paleoenvironments and Sites of Organic Preservation in Gale Crater; Modification 5; Grant 108399.”

Horgan, Briony H; earth and atmospheric sciences, from National Aeronautics and Space Administration, $120,455, “Icy Environments on Mars: Investigating Glacial Weathering in Volcanic Terrains.”

Hountz, Randall A; Regenstrief Center for Healthcare Engineering, from Altarum Institute, $264,469, “Compact Muon Solenoid (CMS) Macra Support for Small Practices.” (a Discovery Park award – Regenstrief Center for Healthcare Engineering)

Howarter, John A and Youngblood, Jeffrey P; materials engineering, from U.S. Forest Service, $15,000, “Fundamental Measurements of Nanoscale Free Volume and Associated Molecular Transport in Cellulosic Nanomaterials and its Composites.”

Howell, Kathleen; aeronautical and astronautical engineering, from Analytical Mechanics Association, Inc, $4,000, “National Aeronautics and Space Administration (NASA) Guidance, Navigation, and Control Technical Discipline Team (TDT).”

Huang, Jen-Yi; Campanella, Osvaldo H; Carroll, Natalie J; Corvalan, Carlos M and Mishra, Dhamendra K; food science, agricultural and biological engineering, from National Institute of Food and Agriculture, $892,000, “Innovative Green Clean-In-Place Technology with Micro-Bubbles.”

Huang, Rong; medicinal chemistry and molecular pharmacology, from PHS-NIH National Heart, Lung and Blood Institute, $249,000, “Expression, Regulation and Role of Enhancer RNAs in T Cells.”


Hystad, Grethe; mathematics, computer science and statistics, from Hazen Foundation, $1,500, “Analysis of Mineral Ecology Data.”

Ileleji, Klein and Ambrose, Rose Prabine Kingsly; agricultural and biological engineering, from National Institute of Food and Agriculture, $30,000, “Training the Next Generation of Leaders for a Transforming Grain Industry.”

Jacob, Zubin; electrical and computer engineering, from Defense Advanced Research Projects Agency, $142,486, “Reaonance Energy Transfer Model of Non-Harmonic Light Generation.”

Jenkins, Michael A; forestry and natural resources, from Eco Logic LLC, $3,534, “Voluntary Support.”

Johnson, William G; botany and plant pathology, from Albaugh Inc, $5,000, “Weed Science Research Voluntary Support.”

Johnson, William G; botany and plant pathology, from Helm Agro US, Inc, $18,800, “Weed Science Research Voluntary Support.”

Johnson, William G; botany and plant pathology, from Amvac Chemical Corporation, $24,600, “Weed Science Research Voluntary Support.”

Johnston, Cliff T; agronomy, from Clay Minerals Society, the, $9,479, “Memorandum of Understanding Between Department of Agronomy Purdue University and Clay Mineral Society.”


Jung, Byunghoo and Ziaie, Babak; electrical and computer engineering, from Murata Manufacturing Co. Ltd, $23,000, “UTI Sensing System Test.”


Karcher, Elizabeth L; animal sciences, from US Poultry and Egg Harold E Ford Foundation, $15,000, “US Poultry – In Kind Grant to 109401.”

Kazemian, Abdolmajid; biochemistry, from PHS-NIH National Heart, Lung and Blood Institute, $249,000, “Expression, Regulation and Role of Enhancer RNAs in T Cells.”

Kinzer-Ursem, Tamara L; biomedical engineering, from National Science Foundation, $50,000, “I-Corps Team – Omnivis.”

Kinzer-Ursem, Tamara L; Institute for Integrated Neuroscience, from National Science Foundation, $324,779, “Faculty Early Career Development (CAREER): Quantitative Tools to Measure the Spatio-temporal Dynamics of Protein Signaling Complexes.”

Kirkpatrick, Jane M; nursing, from Health Resources and Services Administration, $524,340, “Health Center Cluster.”

Kladivko, Eileen J and Morrow, Anna L; agronomy, from National Wildlife Federation, $2,544, “Cover Crop Champions NWF.”

Knopik, Valerie S; child development and family studies, from Emory University, $38,874, “The Kinship Risk Score: An Integrative Tool to Prioritize Alcohol and Drug-Addiction.”

Koltick, David S; physics, from Techsource, $7,000, “Koltick Voluntary Support.”

Krogmeier, James V; electrical and computer engineering, from Centricity LLC, $25,000, “Oats Center Memo Match.”

Krogmeier, James V and Bell, Mark R; electrical and computer engineering, from Indiana Department of Transportation, $250,000, “Determining Concrete Patch Locations Other Than Visual.”
Krupke to Mugler

Krupke, Christian H; entomology, from Marrone Bio Innovations Inc, $12,000, “Entomology – Research.”


Laskin, Julia; chemistry, from Pacific Northwest National Laboratory, $60,000, “Single Cell Resolution Omics Analysis of Type 1 Diabetes (T1D) Islets.”

Laskin, Julia; chemistry, from Pacific Northwest National Laboratory, $105,093, “Joint Effort Appointment at PNNL.”

Laskin, Julia; chemistry, from Pacific Northwest National Laboratory, $10,000, “Center for Lung Development Imaging and Omics.”

Latin, Richard X; botany and plant pathology, from Dow Chemical Company, the, $4,500, “Turfgrass Disease Research.”

Lee, Hyowon; biomedical engineering, from Samsung Electronics Co., Ltd, $100,000, “Implantable Neuromonitoring Interface for Personalized Medicine.”

Lee, Kyoungsoo; physics, from Jet Propulsion Laboratory, $12,750, “Measuring the True Extent of a Coma Cluster Analog at Z=3.78.”

Lenz, Stephen D; comparative pathobiology, from Indiana Department of Natural Resources, $8,000, “IDNR Wildlife Diagnostic Testing.”

Liceaga, Andrea M; food science, from Multi-Sponsored Industries, $6,000, “Multi Sponsored Gift- Sensory.”

Liceaga, Andrea M; food science, from Heartland Food Products Group, $3,000, “Multi Sponsored Gift- Sensory.”

Liceaga, Andrea M; food science, from Sola Company, $7,500, “Multi Sponsored Gift- Sensory.”

Lindemann, Stephen R; food science, from Samyang, $9,999, “Dextrin Structure Effects on Gut Microbiome Structure and Function.”

Lindemann, Stephen R; food science, from Tate and Lyle Ingredients Americas, Inc, $21,000, “Multi-Sponsored Gift.”

Lindemann, Stephen R; food science, from Tate and Lyle Ingredients Americas, Inc, $19,320, “Dextrin Structure Effects on Gut Microbiome Structure and Function.”

Lindshield, Stacy M; anthropology, from Primate Conservation Inc, $1,305, “Disease Transmission Prevention Between Critically Endangered Western Chimpanzees (Pan Troglydyes Verus) and Research Agents at Mont Assirik in Parc National Du Niokolo-Koba, Sene.”

Liu, Julie C; chemical engineering, from Indiana Clinical and Translational Science Institute, $1,000, “Claire Kilmer – Indiana Clinical and Translational Sciences Institute (CTSI) Poster Presentation Award.”

Livengood, Deborah M; food science, from, Paul F and Sara A Williams III, $75, “Multi Sponsored Gift Fermentation.”

Lucietto, Anne M; engineering technology, from American Society for Engineering Education, $1,056, “Engineering Technology Students: Graduation Rates and Diversity Issues (Increase to Grant 210435).”

Lynall, Matthew D; management, from University of Michigan, $306,911, “I-Corps TM Mentor Pilot Supplement.”

Ma, Jianxin; agronomy, from Indiana Soybean Alliance, $81,522, “Genetic Dissection of Yield-Related Traits for Soybean Breeding (Year 2).”

Ma, Zhao; Bauchet, Jonathan J and Zanotti, Laura C; forestry and natural resources, consumer science and retail, anthropology, from Universidad Nacional De San Agustin, $217,119, “ UNSA NEXUS: Equitable Co-Existence of Agriculture, Mining, and Regional Development in Arequipa: Realities, Barriers, and Opportunities.”


Melosh, Henry J and Freed, Andrew M; physics, earth and atmospheric sciences, from National Aeronautics and Space Administration, $157,558, “An Incremental Ice-Wedging Model for Europas Ridges.”

Merwade, Venkatesh Mohan; civil engineering, from University of Minnesota, $270,382, “ S&CC-IRG Track 1: Connecting the Smart-City Paradigm with a Sustainable Urban Infrastructure Systems Framework to Advance Equity in Communities.”

Meyer, Scott E; mechanical engineering, from Sierra Nevada Corporation, $24,675, “GOX/Methane Testing.”

Min, Byung-Cheol; Garcia Bravo, Jose M; Newell, Brittany A; Voyles, Richard M and McMillan, Sara K; computer and information technology, engineering technology, agricultural and biological engineering, from Universidad Nacional De San Agustin, $163,732, “ UNSA NEXUS: Robotic Water Quality Monitoring and Distribution Systems: a Pilot Study.”

Minter, James R; Langemeier, Michael R and Gunderson, Michael A; agricultural economics, from Chicago Mercantile Exchange, $729,079, “Purdue/CME Group Farm Economy Barometer Project.”

Mishra, Dharmendra K; food science, from PHS-FDA Food and Drug Administration, $104,170, “Training and Pilot Processing Laboratory Services for Food Processing Technology Courses.”

Mitchell, Cary A; horticulture and landscape architecture, from National Institute of Food and Agriculture, $474,683, “Engineering Innovations to Improve Efficiency and Reduce Cost of LED Lighting for Leafy-Greens Production.”


Mugler, Andrew J; physics, from University of California – San Diego, $38,605, “Electrical Signaling in Bacterial Biofilms.”
Nagy to Rhoads

Nagy, Zoltan; chemical engineering, from Eli Lilly and Company, $8,090, “Continuous In-Situ Seed Generation and Crystal Growth Using a Novel Integrated MSMPR-OBC Combination Approach (210052).”

Narimanov, Evgeniy; electrical and computer engineering, from Norfolk State University, $40,000, “Control of Light-Matter Interactions with Metamaterials.” (a Discovery Park award – Birck Nanotechnology Center)

Newton, Katherine A; industrial technology, from University of Indianapolis, $10,000, “Coordination of University of Innovative Distribution Program.”

Ngambeki, Busiime Id; computer and information technology, from National Security Agency, $299,931, “Developing a Secure Programming Concept Inventory.”

Nielsen, Robert L and Camberato, James J; agronomy, from Mary S. Rice Farm Estate, $10,000, “Expanded Capacity for Aerial Imagery Acquisition Using sUAS.”

Noinaj, Nicholas; biological sciences, from Achaogen, $104,992, “Large Molecule Targeting of the OM Biogenesis Bama.”

Norman, Eric M and Niser, John C; dean of students, consumer and family sciences, from AWS Foundation, $75,000, “The Bridges to Education and Careers for Student with Intellectual Disabilities Program (a.k.a Bridges Program).”

Oakes, William C; engineering education, from Multi-Sponsored Industrials, $3,000, “Engineering Projects in Community Service (EPICS).”

Oliver, Haley F; food science, from Diversey, Inc, $8,840, “Surface Coverage and Microbial Risks for Fast Drying Disinfectant Wipes.”

Oliver, Haley F; food science, from Diversey, Inc, $30,350, “Disinfectant Efficacy in Relation to Biofilm Formation.”

Oliver, Haley F; food science, from Family Health International, $645,955, “Afghanistan University Support and Workforce Development Program.”

Paniagua Perez, Guillermo and Meyer, Terrence R; mechanical engineering, from Indiana Economic Development Corporation, $6,000,000, “Rolls-Royce Small Turbine Aerothermal Research Rig (STARR) – IEDC Funding.”

Paniagua Perez, Guillermo; mechanical engineering, from NATO (N. Atlantic Treaty Organization), $86,869, “Versatile UAV Engine Development via CVT Coupled Micro Turbopan.”

Paniagua Perez, Guillermo; mechanical engineering, from Rolls-Royce Corporation, $4,164,000, “Rolls-Royce Small Turbine Aerothermal Research Rig (Starr); Modification 1, Grant 210052.”

Panigrahi, Suranjan; Lee, Linda S; Engel, Bernard A and Freeman, Jennifer L; electrical and computer engineering technology, agronomy, agricultural and biological engineering, health sciences, from Universidad Nacional De San Agustin, $139,442, “UNSA Nexus: Integrated Sensing Systems for Detection of Heavy Metal Contamination Across Food-Water-Environment Nexus in Arequipa.”

Parsons, Paul; computer graphics technology, from National Science Foundation, $162,650, “CRII: CHS: Understanding Cognitive Potentials of Interactive Visualizations.”

Pastakia, Sonak D and Karwa, Rakhi; pharmacy practice, from Indiana Clinical and Translational Science Institute, $2,700, “Evaluation of Locally-Sourced Compression Therapy for Treatment of Chronic Venous Leg Ulcers and Management of Kaposi Sarcoma Leg Lymphedema in Western Kenya.”

Payer, Mathias J and Xu, Dongyan; computer science, from Office of Naval Research, $100,000, “Towards Transformation-Based Legacy Software Fitness: Usage-Driven Binary Debloating and Hardening.”

Pekarek, Steven D and Sudhoff, Scott D; electrical and computer engineering, from Continuous Solutions, $867,116, “Medium Voltage Direct Current (MVDC) Grounding System – Phase II.”

Peng, Chunyi; computer science, from National Science Foundation, $93,552, “Faculty Early Career Development (CAREER): Amplifying Intelligence in Mobile Networked Systems.”

Pipes, R Byron and Denos, Benjamin R; aeronautical and astronautical engineering, Composites Manufacturing and Simulations Center, from MSC Software, $10,901, “Test Services for MSC Software Corporation.”


Pol, Vilas G; chemical engineering, from Trask Trust Fund, $50,000, “Dry Solid Lubricant with 90% Friction and Wear Reduction Under High Load Conditions.”

Proctor, Robert W; psychological science, from Tsinghua Education Foundation, $199,985, “Tsinghua University.”


Qi, Yuan; computer science, from Google Inc, $76,685, “Google PhD Fellowship in Machine Learning – Shandian Zhe.”

Qu, Ming; civil engineering, from Oak Ridge National Laboratory, $31,050, “Data Analysis and Performance Modeling for Ionic Liquid Dehumidization System.”

Raghothama, Kashchandra G; International Programs in Agriculture, from Multi-Sponsored Industrials, $50, “Tomato Research.”


Rathfon, Ronald A and Saunders, Michael R; forestry and natural resources, from Indiana Forestry Education Foundation, $1,500, “Reprint Extension Publication FNR-IDNR-414 Forest Improvement Handbook.”

Rhoads, Jeffrey Frederick and Bolton, J Stuart; mechanical engineering, from Office of Naval Research, $125,000, “Acoustics-Based led Detection and Neutralization.”

Rhoads, Jeffrey Frederick; Bolton, J Stuart; Davies, Patricia; Gonzalez, Marcial and Son, Steven F; mechanical engineering, from Air Force Research Laboratory, $200,000, “Exploring the Thermomechanics of Energetic and Mock Energetic Composite Materials Under Quasi-Static and Near-Resonant Excitations.”
Richart to Swihart

Richert, Brian T and Radcliffe, John Scott; animal sciences, from Elanco Animal Health, $15,644, “Efficacy Study to Assess the Effect of Hemicell Httm 1.5x, Appellustm, and the Combination of, in Corn-Soybean Meal Diets Containing Dry Distillers Grains with Solubles (DDGS) on Growth Performance of Nursery Pigs.”

Rossmann, Michael G and Kuhn, Richard J; biological sciences, from Vanderbilt University, $222,858, “Structural and Functional Basis of Ultra Potent ChkV Neutralization by Human Mabs.”

Sadof, Clifford S; entomology, from Indiana Department of Natural Resources, $57,598, “Establish Specific Forest Pest Awareness Weeks/ Months and Unify Web/Mobile Based Repository of Information to Educate the General Public.”

Sadof, Clifford S; entomology, from Rainbow Tree Company, $3,000, “Ornamental Insect Research.”

Sadof, Clifford S; entomology, from Northwestern Indiana Nurseries Association, $100, “Ornamental Insect Research.”

Sadof, Clifford S; entomology, from U.S. Forest Service, $65,000, “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.”


Sangid, Michael D; aeronautical and astronautical engineering, from Rolls-Royce Corporation, $100,000, “Location-Specific Fatigue Strengths for Reduced Weight, Energy Use, and Emissions.”


Sudhoff, Scott D; electrical and computer engineering, from Houston Mechatronics Inc, $22,000, “Houston Mechatronics Voluntary Manufacturing Competitiveness Center Focus Area Consortium.”

Sutherland, John W; environmental and ecological engineering, from Knauf Insulation, $15,000, “Innovations in the Food, Energy, and Water Nexus in the Midwest.”

Suthers, John W; environmental and ecological engineering, from Truflex LLC, $15,000, “Indianas Next Generation Manufacturing Competitiveness Center Focus Area Consortium.”

Talleyrkan, Rusi P; nuclear engineering, from Oak Ridge Associated Universities, $3,750, “Fellowship Check TBD.”

Talleyrkan, Rusi P; nuclear engineering, from Oak Ridge Associated Universities, $4,800, “Practical Training for Dublin Institute of Technology Students.”
Taylor to Zhou

**Taylor, Lynne S.** Industrial and physical pharmacy, from Merck and Company Inc., $70,000, “Nanoparticle Yield from Amorphous Solid Dispersions.”

**Taylor, Lynne S.** Industrial and physical pharmacy, from Pharmaceutical Research and Manufacturers of America Foundation Inc., $40,000, “Postdoctoral Fellowship - Microstructure of Spray Dried Pharmaceuticals.”

**Tesner, John.** Biological sciences, from National Institutes of Health, $212,915, “Structure and Function of the LPLA2/LCAT Acyltransferase Family.”

**Tu, Manghui.** Computer information technology, from University of California – Davis, $20,000, “Develop a Secure Programming Clinic Program at Purdue University Northwest.”

**Vacc, Andrea.** Agricultural and biological engineering, from CNH – Hydraulic Competency Center, $140,000, “Performance Improvement of Wheel Loaders through Independent Metering Boom Actuation.”

**Van Rijn, Richard M. Cushman, Mark S.** and **Lill, Markus A.** Medical chemistry and molecular pharmacology, from PHS-NIH National Institute on Drug Abuse, $74,662, “Development of G-Protein Biased Delta Opioid Receptor Agonist with Analeptic Potency.”

**Varma, Amit H.** Civil engineering, from Dankook University Jukieon Campus, $55,697, “Collaborative Experimental Investigation of SC Walls Subjected to Missile Impact.”

**Vyn, Tony J.** Agronomy, from D Kirt or Elizabeth A Verhagen, $250, “Agricultural Cropping Systems.”


**Weake, Vikki Marie.** Biochemistry, from PHS-NIH National Eye Institute, $343,420, “Epigenetic Regulation of Gene Expression in the Aging Eye.”

**Weaver, Connie M.** Foods and nutrition, from Danone Wave, $6,000, “Corporate Affiliates Fund.”

**Weaver, Connie M. Sors, Thomas G. Bailey, Regan K. Savaiano, Dennis A. Gabauer, Colleen L. Brightman, Andrew O. Byrn, Stephen Robert.** Gavin, Timothy P. Hu, Changdeng; Kuhn, Richard J; McCabe, George P; Story, Jon A; Teegarden, Dorothy; Wodicka, George R; Mesecar, Andrew D and Ratliff, Timothy L; foods and nutrition, medicinal chemistry and molecular pharmacology, bindley bioscience center, graduate school administration, biomedical engineering, industrial and physical pharmacy, health and kinesiology, biological sciences, science – administration, health and human sciences, biochemistry, Cancer Research Center, from Indiana University Purdue University at Indianapolis, $922,848, “Clinical and Translational Sciences Institute (CTSI) – Continuation Year 5 – Parent.” (a Discovery Park award – Bindley Bioscience Center)

**Weibel, Justin A and Garimella, Suresh V.** Mechanical engineering, from Naval Surface Warfare Center Indian HD Div, $146,800, “Evaluation of the Effects of Dynamic and Nonuniform Operation of Radar-Frequency Electronics on High-Power-Density Thermal Management Strategies; Modification 5, Grant 108220.”

**Weil, Clifford F and Doudareva, Natalia.** Agronomy, biochemistry, from Bill and Melinda Gates Foundation, $20,000, “Use of Intrinsic Volatile Compounds for Bird Resistance in Sorghum.”

**Wetzstein, Hazel Y.** Horticulture and landscape architecture, from Co-Alliance, $25,000, “Co-Alliance.”


**Wilker, Jonathan J.** Chemistry, from Office of Naval Research, $35,776, “Biomimetic Adhesives Delivered Underwater, with Charges, and from Renewable Resources.”

**Williams, Christopher S.** Civil engineering, from Indiana Department of Transportation, $90,000, “Implementing the Strut-and-Tie Method for the Design of Bridge Components.”

**Xuan, Yi.** Electrical and computer engineering, from Sea Harvest Group Inc, $150,000, “Sea Harvest Group Inc Voluntary Support.” (a Discovery Park award – Birck Nanotechnology Center)

**Yao, Yuan.** Food science, from Phytoption LLC, $54,360, “New Solubilizers for Drug and Other Applications (Subcontract).”

**Young, Bryan G.** Botany and plant pathology, from Italpollina USA, $6,600, “Multi Sponsored Gift Account.”

**Young, Bryan G.** Botany and plant pathology, from Chemorse, Ltd, $5,400, “Multi Sponsored Gift Account.”

**Young, Bryan G.** Botany and plant pathology, from Wilbur-Ellis Company, $112,250, “Multi Sponsored Gift Account.”

**Yu, Denny.** Industrial engineering, from Indiana University, $20,852, “Fostering Skill Building for Surgeons.”

**Yu, Wenbin.** Aeronautical and astronautical engineering, from Georgia Technology, $9,492, “Vabs as a Tool for Real Blade Analysis, Design, and Certification; Amendment 2, Grant 108848; Amendment 3, Grant 108848.”

**Zhang, Guangjun.** Comparative pathobiology, from Mayo Clinic College of Medicine, $9,387, “IRF4 and Immunity to Influenza Infection.”


**Zhang, Zhong-Yin.** Medicinal chemistry and molecular pharmacology, from National Institutes of Health, $422,519, “Development of SHP2 Inhibitors for Targeted Anti-Cancer Therapy.”

**Zhou, Chenn Qian and Silaen, Armin K.** Center for Innovation through Visualization and Simulation, from Dwyer Instruments, Inc., $9,498, “Computational Fluid Dynamics (CFD) Analysis on the Insertion Magmeter.”

**Zhou, Chenn Qian.** Mechanical and civil engineering, from Steel Dynamics Inc, $45,000, “Steel Manufacturing Visualization and Simulation Consortium (SMVSC) Membership.”