Abdel to Braun

Abdel-Khalik, Hany S; nuclear engineering, from Idaho National Laboratory, $90,000, "Improvements of Algorithms for the Production of Prototypical Synthetic Time Histories."

Agrawal, Rakesh; Tuinstra, Mitchell R; Bermel, Peter A; Brouder, Sylvie M; Felisberto Martins Ribeiro, Bruno; Gitau, Margaret W and Sesmero, Juan P; chemical engineering, agronomy, electrical & computer engineering, computer science, agricultural & biological engineering program, agricultural economics, from National Science Foundation, $1,097,723, “Innovations at the Nexus of Food, Energy and Water Systems Track 2 (INFEWS/T2): Solar Solutions for Food, Energy and Water Systems (S2FEWS) (Grant 10001536 Amendment #1).”

Aime, Mary Catherine and Chittenden, Jairus F; botany & plant pathology, from Indiana Academy of Science, $2,250, "Uncovering the True Diversity of Chanterelle Mushrooms in Indiana."

Alexeenko, Alina; aeronautics & astronautics, from Evonik Corporation, $10,000, “Advanced Lyophilization Technology Hub (LyoHub) Consortium (Evonik Corporation).”

Alexeenko, Alina; aeronautics & astronautics, from Merck Serono, $10,000, “Advanced Lyophilization Technology Hub (LyoHub) Consortium- Merck.”

Amireault, Steve; health & kinesiology, from Indiana Clinical & Translational Science Institute, $24,430, “Factors Associated with the Maintenance of Physical Activity Beyond Program Termination: a Longitudinal Investigation Among Rural Older Adults.”

Anderson, Joseph M; agronomy, from Samuel J. Fry, $150, “Indiana Arborists Association, Inc.”

Athinarayanan, Raghu; Gallardo, Roberto and Kumar, Indraneeil; engineering technology, county extension services, Purdue Center for Regional Development, from Microsoft Corporation, $96,811, “Artificial Intelligence and Manufacturing Workforce Development.”

Baird, Amanda A; field extension, from Tipton County Foundation, $2,122, “Chicken Embryology.”

Baributsa, Dieudonne; entomology, from Mathew D Spurgeon, $25, “Purdue Improved Crop Storage (PICS) Voluntary Support.”

Basaran, Osman A; chemical engineering, from Honeywell Inc., $25,000, "Purdue Process Safety and Assurance Center(P2SAC)."

Behrens, Sandra R; nursing administration, from Indiana University, $16,360, “Northwest Indiana Area Health Center (Federal Funds 2019-2020).”

Bergeson, Scott M; biology, from Fox Island Alliance, $4,212, "Habitat Selection and Torpor Use by Northern Long-Eared Bats in Allen County."

Bhargava, Bharat; computer science, from Sandia National Laboratories, $55,000, “Moving Target Defense for Space Systems; Amendment 1, Grant 14000469.”

Bhave, Sunil A; electrical & computer engineering, from U.S. Department of Interior, $612,637, “MCQA: Mechanically-Driven, Coherence-Enhanced Quantum Angle Sensor (Grant 15200066 Amend #2).”

Bhave, Sunil A; electrical & computer engineering, from Cornell University, $60,000, “Control of Mechanical Quantum States Using Diamond Spins; Amendment 6, Grant 13000544.”

Bhunia, Arun K; food science, from BioMatrix Inc, $6,250, “Shuttleworth North America.”

Bianchi, Antonio; computer science, from Google Inc, $2,000, “Multi Sponsor Voluntary Support.”

Bianchi, Antonio; computer science, from Arizona State University, $25,000, “Purdue Process Safety and Assurance Center(P2SAC).”

Bianchi, Antonio; computer science, from National Science Foundation (PRF) Strategic Research Initiatives (60000025).”

Bolton, Jeffrey T; Executive Vice President for Research & Partnerships administration, from Purdue Research Foundation, $91,971, “19-20 Purdue Research Foundation (PRF) Research Grants (60000025).”

Bolton, Jeffrey T; Executive Vice President for Research & Partnerships administration, from Purdue Research Foundation, $76,664, “Purdue Research Foundation (PRF) Strategic Research Initiatives (60000027).”

Bozkı, Jeremiah M; computer science, from Protocol Labs, $40,600, “DRG Research Challenge.”

Bolton, Jeffrey T; Executive Vice President for Research & Partnerships administration, from Purdue Research Foundation, $76,664, “Purdue Research Foundation (PRF) Strategic Research Initiatives (60000027).”

Boltasseva, Alexandra; Jacob, Zubin and Shalaev, Vladimir M; electrical & computer engineering, from U.S. Department of Energy, $466,901, “Opening New Frontiers of Near-Zero-Index (NZI) Optics: from Photonic Time Crystals to Non-Reciprocity and Novel Localization Regimes,” (a Discovery Park award – Birck Nanotechnology Center)

Bouman, Charles A and Buzzard, Gregery T; electrical & computer engineering, mathematics, from Defense Engineering Corp, $85,574, “Model Based 3-D Surface Reconstructions.”

Bowman, Aaron B and Yang, Yang; health sciences, medicinal chemistry & molecular pharmacology, from Vanderbilt University Medical Center, $255,718, “Manganese Exposure Susceptibility as a Modifier of Excitotoxicity in Alzheimer’s Disease.”

Braun, James E; mechanical engineering, from LG Electronics Co., $50,000, “Center for High Performance Building Consortium-LG Electronics.”

Braun, James E; mechanical engineering, from Ingersoll-Rand Endowment, $25,000, “Center for High Performance Building Consortium-Ingersoll-Rand.”
Brinton to Figueiredo

Brinton, Christopher Greg and Love, David J; electrical & computer engineering, from Naval Sea Systems Command Naval Surface Warfare Center (NAVSEA/NSWC) Crane, $60,000, "Distributed Machine Learning and Sensor Fusion for Spectrum Sensing System Optimization."

Buczkowski, Grzegorz A; entomology, from Corteva Agriscience, $9,999, "Field Evaluation of Recruit Termite Baits."


Campbell, Wayne W; nutrition science, from Foundation for Meat & Poultry Research & Education, $300,895, "Effects of Proportioning Meats and Plant-Based Protein-Rich Foods within the U.S. Healthy Eating Pattern on Cardiovascular Disease Risk Factors."

Carlton, Joshua S and Quagrainie, Kwamena K; Indiana-Illinois Sea Grant, agricultural economics, from University of Minnesota, $43,494, "Great Lakes Sea Grant Aquaculture Collaborative."

Celik, Zeynel Berkay; computer science, from Sandia National Laboratories, $54,294, "System Events and Network Traffic Generation for Realistic Cyber Experimentation."

Chan, Stanley H; electrical & computer engineering, from Intel Corporation, $10,000, "Gift Letter from Intel."

Chen, Jun; Jensen, Charles and Zhang, Haiyan H; mechanical engineering, engineering technology, from U.S. Department of Energy, $349,999, "Modular River Current Energy Converter (MRCEC) with High Efficiency and Smart Operation."

Chen, Weinong W; aeronautics & astronautics, from University of Delaware, $22,500, "Real Time Damage Visualization in Composites."

Christian, John A; comparative pathobiology, from Dennis B & Janice L Denicola, $2,200, "National Cytology Resource."

Claridge, Shelley A; biomedical engineering, from National Science Foundation, $26,057, "Faculty Early Career Development (CAREER): Standing, Lying, and Sitting: Restructuring Intermolecular Forces in Molecular Monolayers and Freshman Chemistry."

Collicott, Steven H; aeronautics & astronautics, from Masten Space Systems, $15,000, "XERMES: Single Pass Rocket Powered Precision Airdrop."

Connor, Robert J; Habib, Ayman F and Mott, John H; civil engineering, aviation and transportation technology, from Indiana Department of Transportation, $100,000, "Development of an Integrated Unmanned Aerial Systems (UAS) Validation Center, Incrementally Funded, 21000236."

Connor, Robert J; civil engineering, from Indiana Department of Transportation, $30,000, "Steel Bridge Research, Inspection, Training and Education Engineering Center (S-BRITE)."

Cooks, Robert Graham; chemistry, from PHS-NIH National Cancer Institute, $392,146, "Advanced Development of Desorption Electrospray Ionization Mass Spectrometry for Intraoperative Molecular Diagnosis of Brain Cancer Using Pathology Biopsies."

Courtney, Andrea L; consumer science, from Charles Schwab, $2,000, "Multi Sponsor - Voluntary Support."

Davisson, Vincent Jo and Fujii, Naoaki; medicinal chemistry & molecular pharmacology, from Amplified Sciences, LLC, $52,352, "Chemical Sensors for Early Detection."

Deering, Amanda J; food science, from SunOpta Food Group LLC, $4,000, "Multi Sponsored Gift Account."

DeLaurentis, Daniel A; aeronautics & astronautics, from Science Applications International, $40,000, "FC 52 OY4 ROM for TI 404 (MOD15-PO Line 27)." (a Discovery Park award – I-GSDI)


DeLaurentis, Daniel A; Raz, Ali Khalid and Panchal, Jitesh H; aeronautics & astronautics, mechanical engineering, from Defense Advanced Research Projects Agency, $397,489, "Learning to Gamebreak (L2G)."

DeLaurentis, Daniel A; aeronautics & astronautics, from Science Applications International, $28,500, "FC 52 OY4 ROM for TI-403 Nems (MOD15-PO Line 26)." (a Discovery Park award – I-GSDI)

DeLaurentis, Daniel A; aeronautics & astronautics, from Science Applications International, $6,000, "FC 52 OY4 ROM for TI 404 (REED Environment Monthly) (MOD15 - PO Line 28)." (a Discovery Park award – I-GSDI)

Delp, Edward J; electrical & computer engineering, from Air Force Research Laboratory, $89,218, "Media Forensics Integrity Analytics; FA8750-16-2-0193; Modification 8 (Grant 13000477)."

Donkin, Shawn S; Gunderson, Michael A and Parks, Dawn W; animal sciences, agricultural economics, agricultural research and graduate education, from North Carolina State University, $36,000, "Leadership, Innovation and the Future of Food and Ag Systems: Foundation for Food and Agriculture (FFAR) Fellows Resident Session II."

Dou, Letian; chemical engineering, from National Science Foundation, $90,452, "Collaborative Research: Fundamental Study of Environmentally Stable and Lead-Free Chalcogenide Perovskites for Optoelectronic Device Engineering."


Ejeta, Gebisa and Burniske, Gary R; agronomy, from International Research & Exchange Board, $181,382, "Mandela Washington Fellowship for Young African Leaders." (a Discovery Park award – Purdue Center for Global Food Security)

Erasmus, Marisa A; Gondhalekar, Ameya D and Karcher, Darrin M; animal sciences, entomology, from Novateur Research Solutions LLC, $100,000, "Smart Systems for Poultry Welfare and Management."

Figueiredo, Marxa L; basic medicine science, from PHS-NIH National Institute of Arthritis and Musculoskeletal and Skin Diseases, $33,865, "Facilitating Endogenous Bone Repair in Arthritis with Targeted IL-27 Sonodelivery (Grant 11000687, Amendment 3 Revised)."
Flaherty to Horgan

Flaherty, Elizabeth A and Creighton, John C; forestry & natural resources, biological sciences, from Nature Conservancy, the, $8,521, “U.S. Fish and Wildlife Service (USFWS) American Burying Beetle.”

Fleet, James C; nutrition science, from Rutgers State University, $163,588, “Nutrigenomics of Intestinal Vitamin D Action; Modification 3; Grant 11000658.”

Frueh, Carolin E; aeronautics & astronautics, from Air Force Office of Scientific Research, $125,000, “Light Curve Inversion for Characterization of Objects with Concavities (Grant 13000623, Modification 2).”

Garner, Allen L; nuclear engineering, from Office of Naval Research, $467,000, “Flexible Pulsed Power Generator for High Power Microwave Applications.”

Goldenstein, Christopher S; mechanical engineering, from Air Force Office of Scientific Research, $149,384, “Characterization of Nanopellant Combustion and Agglomerate-Breakup Physics via Infrared Laser-Absorption Imaging (Grant 13000624, Modification 2).”

Goni Cortes, Joaquín; industrial engineering, from Indiana University, $15,035, “Center on Genetic Determinants of Alcohol Ingestion and Responses to Alcohol.”

Gore, Jay P; mechanical engineering, from John Zink Company, $10,000, “Turbulent Combustion Lab.”

Gore, Jay P and Hasti, Veeraraghava Raju; mechanical engineering, from National Rural Electric Cooperative Assn, $600,209, “Boiler Cost Operations and Cycling Optimization Model (Coco2) (Grant 14000474).”


Groll, Eckhard A and Ziviani, Davide; mechanical engineering, from Bechtel Oil, Gas and Chemicals, Inc, $304,264, “Investigation of a Novel Ejector-Based Cycle Architecture – Phase II: R-290.”

Guzey, Sukru; civil engineering, from Baker Consulting Group, $17,012, “Analysis and Design of Fixed Equipment.”

Guzey, Sukru; civil engineering, from American Petroleum Institute, $29,000, “API 12 Series Tanks Failure Pressure Study Phase 4: API 12F Tanks.”

Haddock, John E; civil engineering, from Indiana Department of Transportation, $38,129, “State Planning & Research (SPR) – 4332 Performance Related Specification for Pavement Milling.”

Hamaker, Bruce R; food science, from Kansas State University, $132,455, “Expanding Markets for Sorghum and Millet Farmers in West Africa through Strengthening of Women and Youth Processors and Nutrition-Based Promotion of Products.”

Hamaker, Bruce R and Ricker-Gilbert, Jacob E; food science, agricultural economics, from Agency for International Development, $1,000,000, “Phase II – Sustainable Reduction of Post-Harvest Losses in Feed the Future Countries through Technologies and Innovations that Link Farmers to Markets: Focus on Kenya and Senegal.”

Handwerker, Carol A; Sutherland, John W and Zhao, Fu; materials engineering, environmental & ecological engineering, mechanical engineering, from Ames Laboratory, $30,192, “Critical Material Institute Year 2.”

Handy, James C; Technical Assistance/Manufacturing Extension Partnership (MEP), from Indiana Department of Transportation, $3,176, “State Planning & Research (SPR)-4448 Central Hot Mix Asphalt (HMA) Acceptance Lab Process Improvement Extension.”


Hassanein, Ahmed; nuclear engineering, from Hamamatsu Photonics, $21,000, “Multi Sponsor – Voluntary Support.”

Heister, Stephen D; aeronautics & astronautics, from Inspace, LLC, $159,629, “Rotating Detonation Engines for Increased Payload to Orbit at Lower Cost.”

Held, Dena M; field extension, from Indiana Youth Institute, $750, “Mountains of Opportunity 2019 National Conference.”

Hertel, Thomas W; ag economics, from Massachusetts Institute of Technology, $20,435, “Global Trade Analysis Project (GTAP) Consortium-MIT.”

Hertel, Thomas W and Johnson, David R; ag economics, industrial engineering, from National Science Foundation, $1,000,000, “Innovations at the Nexus of Food, Energy and Water Systems Track 2 (INFEWS/T2): Identifying Sustainability Solutions through Global-Local-Global Analysis of a Coupled Water-Agriculture-Bioenergy System (Grant 10001558, Amendment 1).”


Hertel, Thomas W; ag economics, from Centre D’Etudes Prospe Et D’Information International, $20,435, “Global Trade Analysis Project (GTAP) Consortium-CEPII.”

Hoewe, Jennifer E and Sherrick, Brett I; communications, from Page Center, the Arthur W, $2,750, “Identifying with (In)Congruent Narratives: Determining the Effectiveness of Sustainability Initiatives in Advertisements for Congruent and Incongruent Companies.”

Holland, Jeffrey D; entomology, from Indiana Academy of Science, $1,731, “The Bioindicator Potential of Springtails Across Diverse Indiana Landscapes.”

Hook, Tomas O and Archer, Angela S; forestry & natural resources, from National Oceanographic & Atmospheric Administration, $59,000, “Mountains of Opportunity 2020 Knauss Fellowship – Meredith Richardson.”


Horgan, Briony H; earth & atmospheric sciences, from Texas A&M University, $137,326, “SAND-E: Semi-Autonomous Navigation for Detrital Environments-Integrating Robotic Terrain Analysis Geochemistry, & Sedimentology to Assess Sediment Transport Pathways; Amendment 1, Grant12000290.”

Horgan, Briony H; earth & atmospheric sciences, from Arizona State University, $40,979, “Mastcam-Z: A Geologic, Stereoscopic, and Multispectral Investigation for the National Aeronautics and Space Administration (NASA) Mars-2020 Rover Mission; Amendment 8 for Grant #12000147.”
Hua to Lyutikov

Hua, Inez; civil engineering, from Google Inc, $30,000, “Circular Hard Disk Drive Magnets Life Cycle Assessment.”

Ishii, Mamoru; nuclear engineering, from Rensselaer Polytechnic Institute, $26,288, “Development of an Intelligent Coupling Approach for Modeling and Prediction of Cryogenic Propellant Behaviors in Microgravity During Long-Term Storage.”

Iyer-Pascuzzi, Anjali; Mengiste, Tesfaye D; Staiger, Christopher J and Woloshuk, Charles P; botany & plant pathology, from National Institute of Food & Agriculture, $238,500, “Training the Next Generation of Plant Pathologists in Multi-Scale, Quantitative Approaches to Solve Plant Disease Problems.”

Jacob, Zubin; Li, Tongcang; Lu, Na; Rahman, Rajib and Xuan, Yi; electrical & computer engineering, physics & astronomy, civil engineering, from Defense Advanced Research Projects Agency, $627,594, “Designing Quantum Fluxtualational Meta-Molecules for Giant Cooperative Light-Matter Interaction Beyond Spectral Boundaries (Grant 13000678 Modification 3); (a Discovery Park award – Birck Nanotechnology Center)

Johnson, Brandon Charles; earth & atmospheric sciences, from Massachusetts Institute of Technology, $55,671, “The Impact of Titan’s Impacts.”

Johnson, David R; industrial engineering, from Water Institute of the Gulf, $12,241, “Model Updates and Improvements: Storm Selection for the Integrated Compartment Model (ICM).”


Kao, Shih-Chun and Schmitt, Sara A; health & kinesiology, human development & family studies, from Kinley Trust, $19,998, “The Acute Effects of Intense Interval and Continuous Moderate Exercise on Executive Function and Declarative Memory in Children.”

Krupke, Christian H; entomology, from Ohio State University, $10,000, “Soybean Entomology Research and Extension in the North Central Region.”


Kuang, Shihuan; animal sciences, from PHS-NIH National Institute of Arthritis and Musculoskeletal and Skin Diseases, $341,000, “Phosphatase and Tensin Homologue (PTEN) Function in Satellite Cells (Grant 11000579 Amendment 4).”

Kuhn, Richard J; biological sciences, from PHS-NIH National Institute of Allergy and Infectious Diseases, $381,463, “Rapid Response Research (Rapid) Generation of Vaccine Candidates Against Novel Wuhan Coronavirus (SARS-CoV-2) Using the Bacteriophage T4 Nanoparticle Platform.”

Kurdelak, Erik S; food science, from D. Kay Cooksey, $250, “Pilot Plant Multi-Sponsored Gift.”

Lee, Chi Hwan; biomedical engineering, from PHS-NIH National Institute of Biomedical Imaging and Bioengineering, $187,707, “Development and Validation of a Mechanically Compliant Wearable Monitoring System for Swallowing Function and Disorders (Grant 11000895, Amendment 1).”

Liceaga, Andrea M; food science, from Treehouse Foods, Inc, $5,000, “Multi Sponsored Gift- Sensory.”

Liceaga, Andrea M; food science, from Heartland Food Products Group, $1,500, “Multi Sponsored Gift- Sensory.”

Liceaga, Andrea M; food science, from Karlin Foods Corporation, $1,500, “Multi Sponsored Gift- Sensory.”

Liceaga, Andrea M; food science, from Heartland Food Products Group, $1,500, “Multi Sponsored Gift- Sensory.”

Linnes, Jacqueline C; Alexeenko, Alina and Topp, Elizabeth M; biomedical engineering, education administration, industrial & physical pharmacy, from Casper Biotech Corporation, $84,727, “Microfluidic Rapid and Autonomous Analytical Device (microRAAD) Modification and Lyophilization of Clustered Regularly Interspaced Short Palindromic Repeats (CRISPR) Reagents.”

Little, Dianne; Aryal, Uma K; Calve, Sarah; Cooper, Bruce R; Sanmiguel, Phillip John and Thimmaphuram, Jyothi; basic medicine science, comparative pathobiology, biomedical engineering, medicinal chemistry & molecular pharmacology, agricultural administration, bioinformatics core recharge, from PHS-NIH National Institute of Arthritis and Musculoskeletal and Skin Diseases, $49,120, “Driver Genes for Engineered Rotator Cuff Development (Grant 11000840, Amendment #2)”


Lu, Na; civil engineering, from Indiana Department of Transportation, $110,152, “Self-Healing Cementitious Composites (SCHCC) with Ultra-High Ductility for Pavement and Bridge Construction – Request for Time and Cost Extension.”


Lyon, Angeline M; chemistry, from PHS-NIH National Institute of Arthritis and Musculoskeletal and Skin Diseases, $378,817, “Structural Studies of PLCepsilon a Regulator of Cardiac Contractility and Hypertrophy (Grant 11000702, Amendment #2).”

Lyutikov, Maxim Y; physics & astronomy, from National Aeronautics and Space Administration, $114,688, “Pulsars and Wind Nebulae: from Coherent Radio, to X-Rays, to Gamma-Rays; Mod 4; Grant 12000243.”

Lyutikov, Maxim Y; physics & astronomy, from National Aeronautics and Space Administration, $40,000, “The Origin of Plateaus and of the Sudden Steep Decays in Gamma Ray Burst (GRB) Afterglow.”

Lyutikov, Maxim Y; physics & astronomy, from National Aeronautics and Space Administration, $60,019, “Pulsars and Wind Nebulae: from Coherent Radio, to X-Rays, to Gamma-Rays; Modification 5, Grant 12000243.”
Ma to Pourpoint

Ma, Linquan; mathematics, from National Science Foundation, $24,800, "Focused Research Group (FRG): Collaborative Research: Algebraic Geometry and Singularities in Positive and Mixed Characteristic."

Ma, Zhao; Erwin, Anna E and Silva, Chelsea Angelina; forestry & natural resources, from Kinley Trust, $20,000, "Investigating Social-Ecological Risk and Adaptation Among Agricultural Migrants in Peru."

Mayes, Amanda S; Purdue Memorial Union, Student Activities & Organizations, Convocations & Hall of Music, from Arts Midwest, $3,040, "Aquila Theatre Company: Frankenstein."

McKinley, Steven K and Stierwalt, Courtney Renea; County Extension Service, field extension, from Indiana State Department of Health, $20,280, "Strengthen Public Health Systems and Services."

Merwade, Venkatesh Mohan; civil engineering, from National Science Foundation, $157,823, "Collaborative Research: River Morphology Data and Analysis Tools (RiverMorph): A Web Platform for Enabling River Morphology Research."

Meyer, Scott E; mechanical engineering, from Blue Origin, LLC, $75,000, "Blue Origin H202 Thruster Testing."


Mikhail, Maged B; engineering technology, from PMMI Foundation, $5,427, "PMMI U Skills Fund Grant: PNW/LinMot Project."

Mize, Trenton D; sociology, from Kinley Trust, $20,000, "The Effects of Organizational Policies on Perceptions of Workers Who Take Parental Leave."

Morris, Pamala V; agricultural administration, from Indiana State Department of Agriculture, $3,000, "ISDA Grant Agreement A337-20-ISDA-005."

Mukherjee, Partha P; mechanical engineering, from Nissan Research & Development, Inc, $130,000, "Li-Metal Anode Theoretical Feasibility in Solid State Battery."

Mukherjee, Partha P; mechanical engineering, from Office of Naval Research, $35,000, "Electrochemical and Transport Evolution Dynamics in Sodium-Sulfur Electrodes (Grant 1300078, Modification 2)."

Mukherjee, Partha P; mechanical engineering, from Office of Naval Research, $35,000, "Electrochemical and Transport Evolution Dynamics in Sodium-Sulfur Electrodes (Grant 1300078, Modification 2)."

Morawski, Matthew M; pharmaceutical practice, from Eli Lilly and Company Foundation, $1,500, "Multi Sponsor – Voluntary Support."

Neumeister, Norbert; physics & astronomy, from Fermi National Accelerator Laboratory, $21,606, "2020 LHC Physics Center (LPC) Distinguished Researcher Program."

Neumeister, Norbert; Jones, Timothy Matthew and Jung, Andreas; physics & astronomy, from Princeton University, $168,883, "US Compact Muon Solenoid (CMS) Group at Purdue University for Activities Related to US Compact Muon Solenoid (CMS) Software and Computing Subsystem, AM 10; Grant 10001463."

Neumeister, Norbert; Jones, Timothy Matthew; Koltick, David S; Kruczenski, Luis Martin; Finley, John P and Jung, Andreas; physics & astronomy, from U.S. Department of Energy, $838,000, "An Experimental and Theoretical High Energy Physics Program; Modification 11; Grant 14000369."

Noinaj, Nicholas; biological sciences, from PHS-NIH National Institute of General Medical Science, $315,773, "Structural Characterization of the Translocon of the Outer Membrane in Chloroplasts (TOC) Protein Translocon Machinery (Grant 1100709; Amendment # 3)."

Olek, Jan; McDaniel, Rebecca S and Shah, Ayesha; civil engineering, from Indiana Department of Transportation, $25,000, "North Central Superpave Center (NCSC) Base Funding Expansion."

Oliver, Haley F; Chaubey, Indrajeet; Deering, Amanda J; Ebner, Paul D; Ricker-Gilbert, Jacob E and Wang, Hui-Hui; food science, earth, atmospheric & planetary sciences, animal sciences, agricultural economics, agricultural sciences education & communication, from Agency for International Development, $2,000,000, "Feed the Future Innovation Lab for Food Safety."

Oliver, Haley F; food science, from Diversey, Inc, $32,140, "Study 12.1: Testing Disinfectant Efficacy at 1 Min Against Bacteria (S.Aureus and P.Aeruginosa) and Virus (Feline Calicivirus)."

Oliver, Haley F; food science, from Diversey, Inc, $20,653, "Study 12.1: Testing Disinfectant Efficacy at 1 Min Against Yeast (C.Auris)."

Ostanek, Kristine M; human development & family studies, from Pennsylvania State University, $97,337, "An Adoption Study of the Development of Early Substance Use: the Joint Roles of Genetic Influences, Prenatal Risk, Rearing Environment, and Pubertal Maturation; Amendment 2, Grant 1100799."

Paschou, Peristera; biological sciences, from Massachusetts General Hospital, $59,456, "Large-Scale Collaborative Genetic and Epigenetic Studies of Tourette Syndrome; Amendment 1, Grant 11000943."

Peroulis, Dimitrios; Alexeenko, Alina and Macheret, Sergey O; electrical & computer engineering, aeronautics & astronautics, from Office of Naval Research, $563,368, "Wideband and High-Power Reconfigurable Plasma Matching Network for Compact and Efficient Phased Array Emitters; Modification 1, Grant 13000779."

Pienaar, Elsje; biomedical engineering, from Phrma Foundation, $50,000, "Integrating in Vitro and Computational Approaches to Accelerate Drug Development for TB/HIV Co-Infection."

Poggie, Jonathan; aeronautics & astronautics, from Office of Naval Research, $116,617, "Predicting Hypersonic Laminar-Turbulent Transition with Direct Numerical Simulation (Grant 13000541, Modification P5)."

Potthen, Alex; computer science, from Pacific Northwest National Laboratory, $123,220, "ExaGraph: Combinatorial Methods for Enabling Exascale Application; Modification 5, Grant 14000319."

Pourpoint, Timothee L; aeronautics & astronautics, from National Aeronautics and Space Administration, $68,752, "Measurement and Modeling of Surface Coking in Fuel-Film Cooled Liquid Rocket Engines – Rufat Kulakhmetov.; Modification 5, Grant 12000178."

Pourpoint, Timothee L; aeronautics & astronautics, from Analytical Mechanics Association, Inc, $8,556, "Transient Combustion Modeling for Hypergolic Engines (Grant 12000315)."

## Prokopy to Sheffield

**Prokopy, Linda S.;** forestry & natural resources, from Environmental Defense Fund, $34,500, "Identify Social Barriers to the Adoption of Natural Infrastructure Practices."

**Prokopy, Linda S.;** forestry & natural resources, from U.S. Geological Survey, $250,000, "Water Resources Research Act Program FY 2019 104(g)."

**Puthiyaveettil, Sujeeth;** biochemistry, from U.S. Department of Energy, $123,769, "Core Phosphorylation as a Modulator of Photosystem II Functional and Biogenetic Assembly."

**Qi, Minghao;** electrical & computer engineering, from Mitsubishi Electronics Corp., $10,000, "Mitsubishi Voluntary Support." (a Discovery Park award – Birck Nanotechnology Center)

**Quagrainie, Kwamena K;** agricultural economics, from Iowa State University, $26,921, "Choice of Fish: an Analysis of the North Central Region Market for Farm-Raised Fish."

**Raghothama, Kashchandra G and Dickson, Amanda J;** horticulture & landscape architecture, International Programs in Agriculture, from Partners of the Americas Foundation, $100,000, "Farmer-to-Farmer Trinidad and Tobago."

**Rhoads, Jeffrey Frederick;** Bolton, J Stuart; Davises, Patricia; Gonzalez, Marcial and Son, Steven F; mechanical engineering, from Air Force Research Laboratory, $50,000, "Exploring the Thermomechanics of Energetic and Mock Energetic Composite Materials Under Quasi-Static and Near-Resonant Excitations (Grant 13000634; Modification 7)."

**Roy, Kaushik;** electrical & computer engineering, from Semiconductor Research Corporation, $3,077,160, "C-BRIC: Center for Brain-Inspired Computing Enabling Autonomous Intelligence; Amendment 7, Grant 40001859."

**Roy, Kaushik;** electrical & computer engineering, from IBM, $78,244, "Cognitive Workflows: Goal Directed Distributed Analytics Using Semantic Vector Spaces."

**Sadeghi, Farshid;** mechanical engineering, from Honeywell Inc., $150,000, "Tribology Lab Research."

**Sandhage, Kenneth H;** materials engineering, from Massachusetts Institute of Technology, $227,852, "High Temperature Pumps and Valves for Molten Salt (Grant 14000408, Amendment 3)."

**Sandhage, Kenneth H;** materials engineering, from Virginia Commonwealth University, $7,297, "Mechanisms Mediating Osseointegration of 3-D Printed Titanium Constructs; Amendment 2, Grant 11000849."

**Sandhage, Kenneth H;** materials engineering, from Virginia Commonwealth University, $244,948, "A Variable and Multi-Fractional Order Computational Mechanics Framework: Simulation, Optimization, and Monitoring of Hypersonics Structures in a Multiphysics Environment. (Grant 13000805, Modification 1)."

**Shahidi, Freydoon;** mathematics, from National Science Foundation, $92,926, "L-Functions, Fourier Transforms, and Gamma Factors (Grant 10001317, Amendment #2)."

**Shakouri, Ali;** electrical & computer engineering, from Applied Materials, $8,750, "Consortium on Printing and Scalable Manufacturing of Aware and Responsive Thin Films (SMART)-Applied Materials." (a Discovery Park award – Birck Nanotechnology Center)

**Shakouri, Ali;** electrical & computer engineering, from Landauer, $70,000, "Consortium on Printing and Scalable Manufacturing of Aware and Responsive Thin Films (SMART)-Landauer." (a Discovery Park award – Birck Nanotechnology Center)

**Shashurin, Alexey and Slipchenko, Mikhail N;** aeronautics & astronauts, mechanical engineering, from National Science Foundation, $114,893, "Collaborative Research: Exploring Plasma Dynamics at Femtosecond Laser-Induced Photoionization from Near to Mid-Infrared (Grant 10001500, Amendment #1)."

**Sheehan, Amy Heck;** pharmaceutical practice, from Astellas Pharma US Inc, $125,497, "Purdue/Astellas Drug Information Pharmaceutical Fellowship."

**Sheehan, Amy Heck;** pharmaceutical practice, from Janssen Scientific Affairs, $125,497, "Purdue/Janssen Scientific Affairs Drug Information Pharmaceutical Fellowship."

**Sheffield, John W;** engineering technology, from International Association for Hydrogen Energy, $10,000, "International Association for Hydrogen Energy (IAHE) Expenses (Orig. 30001562)."
Shie to Wilcox

Shie, Wesley RJ; continuing studies, from Indiana Economic Development Corporation, $811,307, "Northeast Indiana Small Business Development Center CY 2020 – State."

Shie, Wesley RJ; continuing studies, from Indiana Economic Development Corporation, $220,865, "Northeast Indiana Small Business Development Center CY 2020 – Federal (Grant 20000394)."

Siskind, Jeffrey M; electrical & computer engineering, from IBM, $109,822, "Purdue Subcontract for the IBM Proposal to Intelligence Advanced Research Projects Activity (IARPA) Deep Intermodal Video Analytics (DIVA)."

Slabaugh, Carson D; aeronautics & astronautics, from Office of Naval Research, $150,760, "Transport Physics in Reacting Turbulent Boundary Layers."

Snyder, Margie E and Murawski, Matthew M; pharmaceutical practice, from PHS-Agency for Healthcare Research & Quality, $502,304, "An Evaluation of the Spread and Scale of Patienttoc from Primary Care to Community Pharmacy Practice for the Collection of Patient-Reported Outcomes."

Son, Steven F and Manship, Timothy D; mechanical engineering, materials engineering, from Naval Surface Warfare Center Crane Div, $45,000, "Extraduble 3,3 Diamino-4,4-Azodyluran (DAAF)-Based Explosives: Insensitive Explosive with Small Critical Diameter."

Son, Steven F; mechanical engineering, from National Aeronautics and Space Administration, $3,600, "High-Speed Measurements of Multiple Species and Temperature in Composite Solid Propellant Flames – Morgan Ruesch."

Stanciu-Gregory, Lia A; materials engineering, from National Science Foundation, $97,000, "Rapid Response Research (RAPID): Electrochemical Detection of Covid-19." (a Discovery Park award – Birck Nanotechnology Center)

Sudhoff, Scott D and Pekarek, Steven D; electrical & computer engineering, from Florida State University, $150,000, "Purdue 2017-2021 Electric Ship Research and Development Consortium (ESRDC) Efforts; Amendment 11, Grant 13000510."

Swihart, Robert K and DeWooody, James Andrew; forestry & natural resources, from Indiana Department of Natural Resources, $470,998, "Integrated Deer Management in Indiana."

Tarko, Andrew P and Romero, Mario A; civil engineering, from Indiana Department of Transportation, $65,000, "Indiana Department of Transportation (INDOT) Road Network Screening for Safety Needs."

Tay, Sien Chieh; psychological sciences, from Center for Open Science, $8,375, "Systematizing Confidence in Open Research and Evidence (SCORE): Replication Study."

Telenko, Darcy E P; botany & plant pathology, from Agricultural Research Service, $20,020, "Acquisition of Goods and Services."

Thompson, Michelle S; earth, atmospheric & planetary sciences, from National Aeronautics and Space Administration, $100,000, "Quantifying Solar-Wind-Derived Water in Space Weathered Lunar Soils."

Tomar, Vikas and Adams, Thomas E; aeronautics & astronautics, nuclear engineering, from Naval Surface Warfare Center Indian HD Div, $150,000, "Naval Education Ecosystem Design for Battery Pack Agnostic Intelligent Battery Management Systems."

Topp, Elizabeth M; industrial & physical pharmacy, from National Institute for Innovation in Manufacturing Biopharmaceuticals, $76,962, "Improving Lyophilization of Recombinant Proteins with Solid-State Hydrogen Deuterium Exchange with Mass Spectrometric Analysis (ssHDX-MS), Amendment 2; Grant 18100043."

Tran, Elizabeth; biochemistry, from PHS-NIH National Institute of General Medical Science, $312,119, "The Role of Dead-Box Proteins in Gene Expression (Grant 11000577, Amendment #9)."

Trice, Rodney W and Martinez, Carlos J; materials engineering, from Office of Naval Research, $82,000, "Design and Evaluation of Rare-Earth Co-Stabilized Cubic Zirconia for Hypersonic Flight."

Tuinstra, Mitchell R and Weil, Clifford F; agronomy, from Kansas State University, $36,046, "Sorghum Trait Deployment Pipeline for Improved Food and Feed Value."

Van Der Mensbrugge, Dominique Y; agricultural economics, from U.S. Department of Commerce, $258, "Development and Transfer of WiNDCH Computable General Equilibrium (CGE) Model of the United States Department of Commerce (Grant 18100048)."

Van Der Mensbrugge, Dominique Y; agricultural economics, from U.S. Department of Commerce, $836, "Development and Transfer of Partial Equilibrium (PE)/General Equilibrium (GE) Model for Department of Commerce Center for Global Trade Analysis (GTAP)/Purdue University (Grant 18100039)."

Vandergraff, Donna J and Abbott, Angela R; nutrition science, health and human sciences administration, from National 4-H Council, $65,000, "Wave 2 Well Connected Communities Initiative."

Wang, Fuqiang and Xie, Wei; physics & astronomy, from U.S. Department of Energy, $545,000, "Study Quantum Chromodynamic (QCD) Matter Under Extreme Conditions by Particle Correlation and Heavy Flavor Probes in Relativistic Heavy Ion Collisions; Amendment 5; Grant 14000238."

Wang, Haiyan and El-Azab, Anter A; materials engineering, from U.S. Department of Energy, $231,172, "Achieving Long Range Ordering in Oxide-Metal Hybrid Materials – a Combined Experimental and Modeling Approach (Grant 11000577, Amendment #9)."

Wang, Haiyan; materials engineering, from Sandia National Laboratories, $90,000, "Reconfigurable Unpatterned Metasurfaces via Acoustoelectric Gating of Graphene."


Weibel, Justin A; mechanical engineering, from Qualcomm Technologies Inc, $30,000, "Cooling Technologies Research Center (CTRC), Qualcomm."

Whitacre, Kristi R; field extension, from Wabash Valley Community Foundation, $1,136, "Vigo County Program Scholarships."

Wilcox, Michael D; Hall, Tanya J and Widmar, Nicole J Olynk; agricultural administration, field extension, agricultural economics, from Indiana State Department of Agriculture, $137,588, "Economic Impact and Consumer Awareness Study of Indiana Grown."
Williams to Zhu

**Williams, Christopher S**; civil engineering, from Indiana Department of Transportation, $99,900, "Culvert Inspection Frequency Determination."

**Williams, Rod N**; forestry & natural resources, from State of Maine, $10,000, "Nature of Teaching – Maine 2019 Contract."

**Wooley, Trevor Dion**; mathematics, from National Science Foundation, $282,215, "Analytic Number Theory Motivated by Approximate Translation Invariance."

**Wu, Wenzhuo**; industrial engineering, from Army Research Office, $360,000, "Quantum Spin Hall Effect in Solution-Manufactured Bismuthene for Room-Temperature Topologically Protected Dissipationless Electronics."

**Wu, Wenzhuo**; industrial engineering, from Battelle Energy Alliance LLC, $7,000, "Hybrid Nanomanufacturing of Hierarchical Electrochemical Systems for High-Efficiency Electrocatalysis."

**Xi, Bowei**; statistics, from University of Texas at Dallas, $41,241, "Data Analytics for Cyber Security: Defeating the Active Adversaries, Amendment 4; Grant 13000589."

**Xu, Dongyan**; computer science, from Eli Lilly and Company, $60,000, "Center for Education and Research in Information Assurance and Security (CERIAS) Voluntary Support."

**Xu, Dongyan** and **Nan, Yuhong**; computer science, from Cisco Systems, Inc., $100,000, "‘Learn-to-Investigate’: Intelligent, Instrumentation-Free Approach to Multi-Stage Cyber Attack Investigation."

**Yang, Danzhou**; medicinal chemistry & molecular pharmacology, from PHS-NIH National Cancer Institute, $361,661, "Nucleolin Recognition of MYC Promoter G-Quadruplex and its Role in MYC Regulation by MycG4-Ligands."

**Ye, Peide**; electrical & computer engineering, from Stanford University, $135,000, "Transition Metal Dichalcogenides Based Liners by Atomic Layer Deposition – IMPACT (Innovative Materials and Processes for Accelerated Compute Technologies)." (a Discovery Park award – Birck Nanotechnology Center)

**Yoon, Gyeong Mee**; botany & plant pathology, from National Science Foundation, $299,897, "Early-Concept Grants for Exploratory Research (EAGER): Development of DNA-Encoded Kinase Assay System For Plants."

**Yu, Wenbin**; aeronautics & astronautics, from AnalySwift LLC, $46,667, "An Efficient High-Fidelity Abaqus-Based Toolset with Significantly Improved Durability Predictive Capabilities for Composite Flexbeams."

**Zheng, Wei**; health sciences, from Yale University, $31,000, "Development of a Liquid Chromatography-Mass Spectrometry (LC-MS) Method for Quantifying Harmane in Human Brain Tissues."

**Zhou, Chenn Qian**; **Kim, Hansung**; **Moreland, John R** and **Silaen, Armin K**; Center for Innovation through Visualization and Simulation, mechanical & civil engineering, from Naval Surface Warfare Center Crane Division, $60,000, "3-D Modeling and Simulation for Lifetime Prediction of Electronic Components and System."

**Zhou, Chenn Qian**; **Chen, Bin**; **Moreland, John R** and **Silaen, Armin K**; Center for Innovation through Visualization and Simulation, electrical & computer engineering, from ArcelorMittal USA, $141,892, "Production of Zero-Defect (ZD) Slabs through the Implementation of Smart Manufacturing Technologies in Steel Continuous Casting; Amendment 3, Grant 14000438."

**Zhu, Fengqing**; electrical & computer engineering, from Indiana University, $7,500, "Effect of Reducing Added Sugar Intake, by Substituting Sparkling Water, on Glycemia in Adolescents at Risk for Type 2 Diabetes Immune Responses."

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