

Abebe to Couetil

Abebe, Ephrem; pharmacy practice, from Indiana Clinical and Translational Sciences Institute, \$10,802, "Medication Access and Safety for Children with Special Healthcare Needs During the COVID-19 Pandemic."

Ajuwon, Kolapo; animal sciences, from United Animal Health, \$2,000, "Nutritional Physiology Program."

Alam, Muhammad A; electrical & computer engineering, from Texas Instruments, Inc., \$40,000, "Texas Instruments Gift."

Alexeenko, Alina; aeronautics and astronautics, from Pfizer Inc, \$10,000, "LyoHub Consortium-Pfizer."

Alexeenko, Alina; aeronautics and astronautics, from Genzyme Corporation, \$10,000, "LyoHub Consortium-Genzyme Corporation."

Bane, Sally P M; aeronautics and astronautics, from Ross Graduate Fellowship-Assistantship, \$4,900, "2017-18 Ross Fellowships/Assistantships – Graduate School (71000048)."

Baributsa, Dieudonne; entomology, from Paige Ebner, \$417, "Pics Voluntary Support."

Beaudoin, Stephen P; chemical engineering, from Sandia National Laboratories, \$62,253, "Sandia Academic Alliance Fellowship for Cara Stevenson."

Behrend, Tara Shetye; psychological sciences, from National Science Foundation, \$27,395, "NSF Vsee Appointment."

Bertino, Elisa; computer science, from Intel Corporation, \$45,000, "Voluntary Support – Bertino."

Bhargava, Bharat; computer science, from Sandia National Laboratories, \$75,000, "Moving Target Defense for Space Systems."

Bhargava, Bharat; computer science, from Multi-Sponsored Industrials, \$200,000, "Bhargava – Northrop Grumman Realm."

Bhunia, Arun K; food science, from United Animal Health, \$7,000, "Shuttleworth North America."

Bigelow, Cale A; horticulture and landscape architecture, from The Scotts Company, \$10,000, "Putting Greens Research."

Bobet, Antonio; civil engineering, from Indiana Department of Transportation, \$6,320, "Improved Reliability of Fwd Tests Results and Correlation with Resilient Modulus."

Boltasseva, Alexandra; Chen, Yong P and Shalae, Vladimir M; electrical & computer engineering, physics & astronomy, from University of Southern California, \$483,750, "MURI is: Novel Light-Matter Interactions in Topologically Non-Trivial Weyl Semimetal Structures and Systems." (a Discovery Park award – Birck Nanotechnology Center)

Bowling, Laura C; Casteel, Shaun N and Cherkauer, Keith A; agronomy, agricultural & biological engineering program, from Indiana Soybean Alliance, \$74,226, "Recycling Drainage Water to Improve Soybean Yields and Water Quality."

Braun, James E; mechanical engineering, from Southern California Edison Co., \$50,000, "Center for High Performance Building Consortium-Southern California."

Braun, James E; mechanical engineering, from Emerson Climate Technologies, \$50,000, "Center for High Performance Building Consortium-Emerson Climate."

Braun, James E; mechanical engineering, from Carrier Corporation, \$50,000, "Center for High Performance Building Consortium-UTC Carrier."

Braun, James E; mechanical engineering, from Carrier Corporation, \$75,000, "Multi-Sponsor Voluntary Support – James Braun."

Braun, James E; Groll, Eckhard A and Ziviani, Davide; mechanical engineering, from Danfoss, \$179,095, "Screw Chiller/Compressor Long-Term Performance Degradation Study (Phase II – Degradation Study)."

Bullock, Darcy M; civil engineering, from Indiana Department of Transportation, \$80,000, "SPR-4252 Forensic Investigations."

Caffee, Marc W; physics & astronomy, from U.S. Geological Survey, \$10,290, "Cosmogenic Nuclide Analysis."

Caldwell, Barrett S; industrial engineering, from University of Evansville, \$1,000, "INSGC Affiliate Dues-University of Evansville (2020-21)."

Caldwell, Barrett S; industrial engineering, from Anderson University, \$1,000, "INSGC Affiliate Dues-Anderson University (2020-21)."

Chan, Stanley H; electrical & computer engineering, from Intel Corporation, \$10,000, "Multi Sponsor – Voluntary Support."

Chen, Zhihong; Appenzeller, Joerg and Gupta, Sumeet Kumar; electrical & computer engineering, from Semiconductor Research Corporation, \$1,747,167, "New Materials for Logic, Memory and Interconnects (New Limits) – Years 4 and 5." (a Discovery Park award – Birck Nanotechnology Center)

Christ, Sharon L; human development and family studies, from Michigan State University, \$9,740, "Developmental Trajectories to Stuttering Persistence and Recovery."

Christian, John A; comparative pathobiology, from IDEXX Laboratories, Inc., \$9,440, "Idexx™ Procyte™ Hematology Analyzer Field Study."

Claxton, Laura J and Haddad, Jeffrey M; health & kinesiology, from New York University, \$27,394, "Play & Learning Across a Year (Play)."

Cochran, David S; systems engineering, from Davaus, \$25,000, "Indiana Innovation Vouchers Project: Industrial Hemp Research Initiative."

Connor, Robert J; civil engineering, from Indiana Department of Transportation, \$121,785, "SPR-4535: Development of a Formalized Program for In-Service Inspection of Pedestrian Bridges."

Cooks, Robert Graham; chemistry, from Agilent Technologies, \$75,000, "Chemistry Research."

Cooks, Robert Graham; chemistry, from Waters Technologies Corporation, \$80,000, "Increased Performance in Cancer Diagnostics Using the Waters Synapt."

Cooks, Robert Graham; chemistry, from U.S. Department of Energy, \$179,247, "High-Throughput Preparative Mass Spectrometry at Atmospheric Pressure for the Creation and Soft-Landing of Catalytic Particles."

Couetil, Laurent L and Ivester, Kathleen M; veterinary clinical sciences, from Nortev Ltd, \$22,442, "Efficacy and Safety of Nebulized Dexamethasone in Mild Asthmatic Horses."

Creswell to Hountz

Creswell, Tom C; botany & plant pathology, from Michigan State University, \$10,976, "National Plant Diagnostic Network – North Central Region 2020-21."

Cruz-Porter, Annie K; Kumar, Indraneel and Rigrish, Julie D; Purdue Center for Regional Development, from Floyd County, \$7,600, "Floyd County Housing Data Snapshot."

Csathy, Gabor A; physics & astronomy, from U.S. Department of Energy, \$127,892, "Exotic Quasiparticles in the Fractional Quantum Hall Regime."

Davisson, Vincent Jo; medicinal chemistry & molecular pharmacology, from Amplified Sciences, LLC, \$155,497, "Chemical Sensors for Early Detection."

Davisson, Vincent Jo and Knipp, Gregory Thomas; medicinal chemistry & molecular pharmacology, industrial and physical pharmacy, from Brigham and Women's Hospital, \$326,393, "Pharmaceutical Sciences Core for Advancing Novel Cyanide Countermeasures; Amendment 1; Grant 11000947."

Delaurentis, Daniel A; aeronautics and astronautics, from Northrop Grumman Corporation, \$90,000, "Northrop Grumman Realm."

Deshmukh, Abhijit V; industrial engineering, from Purdue Doctoral Program, \$32,677, "2020-21 Purdue Doctoral Fellowships/Assistantships – Graduate School (71000068)."

DeWoody, James Andrew; forestry & natural resources, from Texas A&M AgriLife Research, \$71,663, "Pupfish Population Genomics (Grant 13000800)."

Dou, Letian; chemical engineering, from National Renewable Energy Laboratory, \$50,000, "American-Made Solar Prize."

Doucette, Suzanne C; chemistry, from U.S. Department of Energy, \$172,427, "Synthetic, Spectroscopic & Computational Studies of Redox-Active Uranium Complexes for Fundamental Organometallic Reactions (Grant 14000212)."

Dydak, Ulrike; health sciences, from Feinstein Institute for Medical Research, \$35,940, "Relationships Between Neuroactive Steroids, Gaba and Glutamate Mrs and Connectivity of the Default Mode Network in Postpartum Depression."

Ejeta, Gebisa and Burniske, Gary R; agronomy, from International Research & Exchange Board, \$23,063, "Mandela Washington Fellowship for Young African Leaders (Grant 1920028)." (a Discovery Park award – Purdue Center for Global Food Security)

Erasmus, Marisa A; animal sciences, from Big Dutchman Group, \$50,410, "Big Dutchman Smart Broiler Initiative."

Everly, Robert M; chemistry, from Indiana University School of Medicine, \$10,900, "Testing Hydrodynamic Isotonic Saline Delivery Effects on Kidney Cellular Integrity."

Flaherty, Daniel P; Watts, Val J and van Rijn, Richard M; medicinal chemistry & molecular pharmacology, from PHS-NIH National Institute Neurological Disorders and Strokes, \$376,148, "Pharmacological Validation of Adenyl Cyclase 1 as Drug Target for Chronic Pain."

Flaherty, Elizabeth A; forestry & natural resources, from Association of Public and Land Grant Universities, \$5,000, "Multi Sponsor."

Garner, Allen L; nuclear engineering, from Office of Naval Research, \$100,001, "Improving Performance of Crossed-Field Amplifiers through Modulation Injection."

Ghosh, Arun K; chemistry, from National Center Global Health Medicine, \$1,116, "Development of Novel Compounds Against RNA-Dependent, RNA Polymerase (Rdrp) Enzyme Target that Exert Potent Activity Against Sars-Cov-2 and Related Viruses."

Gibson, Kevin D; botany & plant pathology, from Alfred P. Sloan Foundation, \$99,325, "Improving Admission Practices and Mentoring for Graduate Students."

Ginzel, Matthew D; entomology, from Arbor America Inc, \$5,050, "Multi Sponsor."

Ginzel, Matthew D; forestry & natural resources, from University of Tennessee, \$10,850, "Extending the Reach of Rapid Diagnostics with Detection Tools for Oak Wilt and Laurel Wilt Diseases in Urban Forests."

Govindaraju, Rao S; civil engineering, from Pegasus Technical Services Inc, \$25,000, "Machine Learning Modeling of Sediment and Nutrients in Maumee River Basin."

Gowher, Humaira; biochemistry, from National Science Foundation, \$50,000, "Role of Divergent IncRNAs in Transcriptional Priming and Enhancer-Mediated Activation of Nearby Genes (Grant 10001224)."

Groll, Eckhard A; mechanical engineering, from QM Power, Inc., \$20,000, "Multi Sponsor – Groll."

Groll, Eckhard A; mechanical engineering, from National Renewable Energy Laboratory, \$60,000, "Energy Design and Scoping Tool for DC Distribution Systems."

Guan, Wenjing; horticulture and landscape architecture, from Sakata Seed America Inc., \$150, "General Research Activities."

Guan, Wenjing; horticulture and landscape architecture, from Sakata Seed America Inc., \$1,050, "General Research Activities."

Guan, Wenjing; horticulture and landscape architecture, from Nunhems Seed Corporation, \$1,200, "General Research Activities."

Guan, Wenjing; horticulture and landscape architecture, from Syngenta Seeds, Inc., \$4,500, "General Research Activities."

Gupta, Sumeet Kumar; electrical & computer engineering, from Semiconductor Research Corporation, \$85,000, "Material, Device and Circuit-Compatible Modeling for Ferroelectric and Anti-Ferroelectric FETs, AM 1; Grant 40002878 (2020-Lm-2959; Amendment No. 1)."

Guzey, Sukru; civil engineering, from Baker Consulting Group, \$39,000, "Analysis and Design of Fixed Equipment."

Habib, Ayman F and Bullock, Darcy M; civil engineering, from Indiana Criminal Justice Institute, \$241,599, "UAS-Based Crash Scene Mapping."

Hamaker, Bruce R; food science, from Rockefeller Foundation, \$52,500, "Technical Support to the Rockefeller Foundation Wholegrain Initiative."

Hertel, Thomas W; agricultural economics, from Inter-American Development Bank, \$20,435, "GTAP Consortium-Adb."

Hertel, Thomas W; agricultural economics, from KPMG, \$20,435, "GTAP Consortium-Kpmg."

Hosseini, Mahdi; electrical & computer engineering, from Guided Particle Systems, Inc, \$75,000, "AFWERX STTR Phase II." (a Discovery Park award – Birck Nanotechnology Center)

Hountz, Randall A and Stewart, Natalie M; industrial Engineering, from Indiana Family & Social Services Administration, \$2,188,542, "Statewide Medicaid – Eligible Incentive Meaningful Use Assistance." (a Discovery Park award – Regenstrief Center)

Hwang to Lucht

Hwang, Inseok; Pitts, Brandon J; Reid Smith, Tahira and Sundaram, Neera J; aeronautics and astronautics, industrial engineering, mechanical engineering, from National Science Foundation, \$406,262, "CPS: Frontier: Collaborative Research: Cognitive Autonomy for Human CPS: Turning Novices into Experts (Grant 10001608 Amend #1)."

Ishii, Mamoru; nuclear engineering, from Rensselaer Polytechnic Institute, \$26,665, "Development of an Intelligent Coupling Approach for Modeling and Prediction of Cryogenic Propellant Behaviors in Microgravity During Long-Term Storage; Amendment 1; Grant 12000332."

Ishii, Mamoru; nuclear engineering, from Fluor Marine Propulsion, \$69,111, "Four-Sensor Conductivity Probe Data Transmittal for Bettis Use."

Iyer, Ananth V and Dunlop, Steven R; management, DCMME/GSCMI, from Indiana Department of Transportation, \$120,000, "SPR 4508 – Forecasting Freight Logistics."

Jagannathan, Suresh; computer science, from Galois, Inc, \$11,669, "SPARTA – the Secure Parser Toolkit for Assurance; Amend #5; Grant 13000753."

Jagannathan, Suresh; computer science, from Galois, Inc, \$16,667, "Exploration Service for Synthesis and Evaluation of Novel CPS Emergent Designs (Essence)."

Jayant, Krishna; biomedical engineering, from Howard Hughes Medical Institute, \$2,100, "The Nanoneedle-Net: a Nanoelectrode Array for Dendritic Recordings, Year 2; Grant 41000665."

Jiang, Yi; construction management technology, from Indiana Department of Transportation, \$40,000, "SPR-4442: Highway Lighting Test Bed on INDOT Facility."

Johnson, William G; botany & plant pathology, from United Phosphorus Inc, \$3,000, "Weed Science Research Voluntary Support."

Johnson, William G; botany & plant pathology, from United Phosphorus Inc, \$5,000, "Weed Science Research Voluntary Support."

Johnson, William G; botany & plant pathology, from Sipcam Agro USA, Inc, \$13,500, "Weed Science Research Voluntary Support."

Johnson, William G; botany & plant pathology, from AMVAC Chemical Corporation, \$15,000, "Weed Science Research Voluntary Support."

Johnston, Cliff T; agronomy, from Clay Minerals Society, The, \$7,892, "Memorandum of Understanding Between Department of Agronomy Purdue University and Clay Mineral Society."

Jun, Martin Byung-Guk; mechanical engineering, from Kyungpook National University, \$7,504, "IoT and AI Based Machine Monitoring and Ar/Vr-Based Human Interaction and Decision Making."

Jung, Byunghoo; electrical & computer engineering, from Korea Electronics Technology Institute, \$16,848, "Ultra-High-Speed and Low-Power Optical Transceiver Components Based on Optoelectronic Integration Technology."

Jung, Jinha; civil engineering, from Texas A&M University, \$9,999, "Estimating Early Cotton Plot Quality Using UAS Data."

Karcher, Darrin M; animal sciences, from BioMatrix Inc, \$9,380, "Poultry Research."

Karcher, Darrin M; animal sciences, from BioMatrix Inc, \$10,000, "Poultry Research."

Key, Nicole L; mechanical engineering, from Rolls-Royce, Inc., \$75,000, "Impeller Modifications Including Gen 3 Hardware."

Key, Nicole L; mechanical engineering, from Office of Naval Research, \$142,680, "Research on Casing Treatments for Performance Enhancement of High-Speed Fans; Modification 1; Grant 13000783."

Kim, Young L; biomedical engineering, from Vanderbilt University Medical Center, \$5,894, "Higher Education Partnership for Innovation and Sustainable Biomedical Informatics Capacity in Kenya."

Kim, Young L; biomedical engineering, from PHS-NIH National Institute Biomed Imaging/Bioeng, \$400,000, "NIH Technology Accelerator Challenge Award."

Koslowski, Marisol; mechanical engineering, from Lynn Interdisciplinary Grad. Fellowship, \$31,668, "2020-21 Lynn Interdisciplinary Graduate Fellowship/Assistantship – Graduate School (Grant# 71000066)."

Krogmeier, James V; electrical & computer engineering, from National Pork Board, \$10,000, "Open Ag Technology Group."

Labi, Samuel; Fricker, Jon D; Sinha, Kumares C and Gkritza, Konstantina; civil engineering, from Indiana Department of Transportation, \$210,000, "SPR-4511 – Mobility & Safety Impacts of Platooning."

Ladisch, Michael R; agricultural & biological engineering program, from U.S. Department of Energy, \$413,545, "Analytical Modeling of Biomass Transport and Feeding Systems (Grant 14000367)."

Lechtenberg, Victor Louis; President administration, from Indiana University, \$10,000, "Support of Southeastern SBDC."

Li, Tongcang and Robicheaux, Francis J; electrical & computer engineering, physics & astronomy, from Office of Naval Research, \$125,000, "Investigating Surface Interactions with Levitated Optomechanics at the Quantum Limit (Grant 13000647 Modification P4)."

Liang, Faming; statistics, from PHS-NIH National Institute of General Medical Science, \$257,327, "An Imputation-Consistency Algorithm for Biomedical Complex Data Analysis; Modification 5 – Grant #11000701."

Liceaga, Andrea M; food science, from The Hain Celestial Group, Inc., \$1,500, "Multi Sponsored Gift- Sensory."

Liceaga, Andrea M; food science, from Aspire Food Group USA Inc, \$38,872, "Evaluation of Polyphenol Content in Diets Used for Farmed, Edible Crickets."

Lin, Dennis KJ; statistics, from Lynn Interdisciplinary Graduate Fellowship, \$31,668, "2020-21 Lynn Interdisciplinary Graduate Fellowship/ Assistantship – Graduate School."

Low, Philip S; chemistry, from MorphImmune, Inc, \$43,750, "Multi Sponsor – Voluntary Support."

Low, Philip S; chemistry, from Trask Trust Fund, \$300,000, "Trask Support."

Lu, Yung-hsiang; Barbarash, David Michael; Ebert, David S and Zakharov, Wei; electrical & computer engineering, horticulture and landscape architecture, Libraries administration, from National Science Foundation, \$8,000, "Collaborative:Rapid:Leveraging New Data Sources to Analyze the Risk of COVID-19 in Crowded Locations."

Lu, Yung-hsiang; electrical & computer engineering, from Google Inc, \$40,000, "Multi Sponsor – Voluntary Support."

Lu, Yung-hsiang; electrical & computer engineering, from Google Inc, \$80,000, "Multi Sponsor – Voluntary Support."

Lucht, Robert P; aeronautics and astronautics, from Blue Origin, LLC, \$22,765, "Femtosecond Coherent Anti-Stokes Raman Scattering Measurements for Rocket Propulsions."

Lusk to Reklaitis

Lusk, Jayson L; agricultural economics, from Foundation for Food and Agriculture Research, \$221,743, "Food and Agricultural Vulnerability Index."

McMillan, Sara K; agricultural & biological engineering program, from Graduate Women in Science, \$10,000, "Participation in the Urban River-scape: an Exploration of the Role of Rivers? Rhythms."

Meyer, Scott E; mechanical engineering, from Blue Origin, LLC, \$88,710, "Blue Origin H202 Thruster Testing."

Meyer, Scott E and Pourpoint, Timothee L; mechanical engineering, aeronautics and astronautics, from Blue Origin, LLC, \$297,286, "Blue Origin Vacuum Thruster Testing."

Meyer, Terrence R; Goldenstein, Christopher S and Son, Steven F; mechanical engineering, from Sandia National Laboratories, \$898,000, "Sandia Light Speed Grand Challenge."

Milisavljevic, Danny; physics & astronomy, from Space Telescope Science Institute, \$15,680, "Towards a Comprehensive Search for Surviving Companions to Stripped-Envelope Supernovae."

Milisavljevic, Danny; physics & astronomy, from Space Telescope Science Institute, \$19,428, "Optimal Use of Hst for Obtaining Statistical Constraints for Sn Iib Progenitors and Their Companions."

Miller, Monica L; Karwa, Rakhi and Zillich, Alan J; pharmacy practice, from One to One Health, \$69,545, "One to One COVID Tracing."

Mishra, Dharmendra K and Ambrose, Rose Prabin Kingsly; food science, agricultural & biological engineering program, from Mead Johnson Nutritionals, \$8,000, "Fouling of Infant Formula."

Mishra, Dharmendra K; food science, from Foreign Agricultural Service, \$45,176, "Hosting Borlaug Fellow from #1 from Egypt: Food Contact Material Assessment."

Mishra, Dharmendra K; food science, from Mead Johnson Nutritionals, \$9,600, "Prediction of Cold Spot Temperature in Product Packed in Kraft Paper Bag."

Mishra, Dharmendra K; food science, from Mead Johnson Nutritionals, \$6,000, "Lactoferrin Efficacy for Antimicrobial Activity."

Mishra, Dharmendra K; food science, from Octavio Hernandez, \$100, "Multi Sponsored Gift."

Mohammadi, Saeed; Shakouri, Ali and Glassmaker, Nicholas J; electrical & computer engineering, from Jet Propulsion Laboratory, \$150,000, "Micro-Meteorite Sensing Platform for 8"X2 Meter Flexible Panel." (a Discovery Park award – Birck Nanotechnology Center)

Mort, Paul R and Wassgren, Carl R; materials engineering, mechanical engineering, from Sandia National Laboratories, \$88,290, "Model-Directed Powder Flow; Amendment 1; Grant 14000464."

Mott, John H; aviation and transportation technology, from Old Dominion University Research Foundation, \$12,000, "Developing a Cost-Effective Assessment Method of Noise Impact for Non-Towered Airports: a Case Study at Purdue University Airport."

Mou, Shaoshuai; aeronautics and astronautics, from Northrop Grumman Corporation, \$161,333, "Northrop Grumman Realm."

Murawski, Matthew M; pharmacy practice, from Eli Lilly and Company Foundation, \$1,000, "Multi Sponsor – Voluntary Support."

Nagy, Zoltan; chemical engineering, from International Fine Particle Research Institute Inc., \$12,000, "IFPRI Gift."

Nagy, Zoltan; chemical engineering, from Enabling Technologies Consortium, \$130,000, "User-Friendly Population Balance Model with Data Integration for Crystallization Development (Grant 40002003)."

Narimanov, Evgeniy; electrical & computer engineering, from University of California – Berkeley, \$55,000, "Supplement: a Highspeed Superlens Nanoscope for Imaging at 10 nm and Beyond (Grant 40001866 Amendment #6)." (a Discovery Park award – Birck Nanotechnology Center)

Oakes, William C and Martinez, Jorge L; engineering education, Engineering Projects in Community Service, from Institute of Electrical Electronics Eng, \$10,000, "EPICS Natural Disaster Preparedness – Filtration Project."

Ostafe, Raluca; biological sciences, from Elanco Inc, \$465,384, "Directed Evolution of Lysostaphin – Part 2."

Paladino, Frank V; biology, from Earthwatch, \$146,520, "Costa Rican Sea Turtles (2020-2021)."

Parashar, Neeti; chemistry & physics, from Cornell University, \$2,722, "U.S. CMS Upgrades for the High-Luminosity Large Hadron Collider."

Park, Jae Hong; health sciences, from University of Michigan, \$20,000, "Development of a Sampler for the Rapid and Convenient Detection of Airborne Pathogens."

Parsons, Paul; computer graphics technology, from University of California – San Diego, \$16,000, "S2i2: Impl: the Science Gateways Community Institute (Sgci) for the Democratization and Acceleration of Science (Grant 10001098 Modification 8)."

Piercey, Davin G; materials engineering, from Army Research Office, \$138,860, "Molecular Structure and Dynamics: Disruptive Energetic Materials: the Synthesis and Stabilization of High-Nitrogen Compounds and Next-Generation Energetic Materials; Modification 3; Grant 13000687."

Pourpoint, Timothee L; aeronautics and astronautics, from Analytical Mechanics Associates, Inc, \$74,000, "Helium Evolution from Helium-Saturated Hypergolic Propellants."

Powley, Terry L and Phillips, Robert J; psychological sciences, from PHS-NIH National Institute of Diabetes and Digestive and Kidney Diseases, \$626,687, "Autonomic Control of Body Weight and Feeding (Grant 11000571)."

Raghothama, Kashchandra G and Dickson, Amanda J; horticulture and landscape architecture, from Partners of the Americas Foundation, \$300,000, "Farmer-to-Farmer Trinidad and Tobago."

Ramanathan, Shriram; materials engineering, from Air Force Office of Scientific Research, \$150,000, "Neutron Reflectometry and X-Ray Scattering Studies on Dopant Injection Dynamics into Correlated Nickelates (Grant 13000754)."

Ramani, Karthik; mechanical engineering, from SRI International, \$346,748, "Accel ? AI Human Collaborative Cyber Physical Engineering and Learning (Accel) Environment."

Rao, Sanjay G; electrical & computer engineering, from Silicon Valley Community Foundation, \$108,070, "Netapp University Research Fund."

Reibman, Amy R and Deering, Amanda J; electrical & computer engineering, food science, from Indiana State Department of Agriculture, \$179,253, "Hand Hygiene Verification Using Video Analytics."

Reklaitis, Gintaras V; Gonzalez, Marcial and Nagy, Zoltan; chemical engineering, mechanical engineering, from University of Delaware, \$968,616, "Industry 4.0 in Advancing Continuous Pharmaceutical Manufacturing."

Rhoads to Subbarayan-Shastri

Rhoads, Jeffrey Frederick and **Kurtulus, Orkan**; mechanical engineering, from Hottinger Brüel & Kjær, \$4,500, "HBK Windtunnel."

Ribeiro, Fabio H; chemical engineering, from Multi-Sponsored Industrials, \$30,000, "CISTAR Industrial Consortium, Honeywell 40001938."

Richert, Brian T; animal sciences, from Archer Daniels Midland Co, \$25,200, "Swine Research."

Richmond, Douglas Scott; entomology, from Bayer Crop Science, \$19,800, "Turfgrass Entomology Research."

Rispoli, Mandy J; educational studies, from University of Oregon, \$239,903, "Project Lead: Leaders in Evidence Based Practices, Autism Spectrum Disorder, and Divserity (Grant 19100067)."

Robicheaux, Francis J; physics & astronomy, from U.S. Department of Energy, \$100,000, "Atoms and Ions Interacting with Particles and Fields; Modification 8; Grant 14000229."

Rocheford, Torbert R and **Ortiz, Darwin**; agronomy, from Ag Alumni Seed Improvement Association, \$100,000, "Conversion of Agricultural Alumni Seed Improvement Association, Inc. Proprietary Popcorn Inbreds to Orange Color and Higher Carotenoids."

Rompf, Tiark; computer science, from Microsoft Corporation, \$25,000, "Multi Sponsor – PurPL Center."

Roy, Kaushik; electrical & computer engineering, from IBM, \$41,698, "Self-Aware Cognitive Services for Distributed Coalition Environments – BPP20 (Grant 13000866)."

Roy, Kaushik; electrical & computer engineering, from Semiconductor Research Corporation, \$5,997,105, "C-BRIC: Center for Brain-Inspired Computing Enabling Autonomous Intelligence Amend 8; Grant 40001859 (Srcco/Jump Contract 2018-Ju-2777; Amendment No. 8)."

Rozhon, Atina M; Field Extension, from Jennings County Community Foundation, \$2,000, "Reading Made Fun."

Sadeghi, Farshid; mechanical engineering, from The Timken Company, \$90,000, "Tribology Lab Research."

Sangid, Michael D; aeronautics and astronautics, from Sandia National Laboratories, \$78,960, "Mapping Strain Fields and Failure Mechanisms via Synchrotron-Based X-Ray Microtomography."

Sangid, Michael D; aeronautics and astronautics, from National Aeronautics and Space Administration, \$186,778, "Microstructure and Defect Informed Predictions of Damage Tolerance and Durability of Materials and Structures, Including Verification and Uncertainty Quantification (Grant 12000322)."

Sangid, Michael D; aeronautics and astronautics, from Northrop Grumman Corporation, \$15,000, "Probability Theory & Probabilistic Design Sciences."

Savran, Cagri A; mechanical engineering, from Savran Technologies Inc, \$30,000, "Voluntary Support."

Schoenlein, William E; biomedical engineering, from Cook Research Incorporated, \$25,638, "Pre-Clinical Evaluation Testing Agreement: Studies: CMH-Rdc2, Cbi-Bfmb, POC and Sentinels."

Schwichtenberg, Amy J M; human development & family studies, from PHS-NIH National Institute of Child Health and Human Development, \$75,617, "Sleep, the Glymphatic System, and Social Communication Development."

Scott-Moncrieff, Joanna C R; veterinary clinical sciences, from Surgical Referral Services Ltd, \$22,381, "Onco Residency Training Program."

Scutari, Gesualdo; industrial engineering, from Army Research Office, \$40,000, "Distributed Robust Nonconvex Optimization Over Time-Varying Networks: Tradeoffs and Guarantees (Grant 13000661 Modification 4)."

Sen, Shreyas; electrical & computer engineering, from BDYWR, LLC, \$7,500, "Pilot Health Monitoring in RF-Denied Environemnt Using Human Body as a Wire."

Sen, Shreyas; electrical & computer engineering, from Intel Corporation, \$100,000, "Multi-Sponsored Industrial."

Shang, Lizhi; agricultural & biological engineering program, from Bronson & Bratton, Inc, \$1,354, "Steady State Performance Testing for a Novel Hydraulic Machine."

Simpson, Vicki L; nursing, from Indiana Clinical and Translational Sciences Institute, \$8,375, "Using Social Network Analysis to Create an Effective Health Coalition to Support a Systems Level Approach to Improve Health Outcomes and Reduce Disparities."

Singh, Shweta; agricultural & biological engineering program, from PathZero, \$26,504, "GHG Inventory for US – Industrial Project."

Siskind, Jeffrey M; electrical & computer engineering, from IBM, \$440,608, "Purdue Subcontract for the IBM Proposal to IARPA DIVA (Grant 13000609)."

Sizyuk, Tatyana S; nuclear engineering, from Samsung Advanced Institute of Technology, \$150,000, "Modeling and Optimization of EUV Sources – from Physics Inside to the Development of Stable and High-Power Sources."

Smith, Preston M and **Younts, Alexander D**; IT Research Computing, from Microsoft Corporation, \$100,000, "Best Practices for Hybrid Cloud/HPC Ecosystems in Academic Cyberinfrastructure."

Son, Steven F and **Manship, Timothy D**; mechanical engineering, from Clariant Corporation, \$29,669, "Testing Contract for Clariant Catalyst."

Sravan, Niharika and **Milislavjevic, Danny**; physics & astronomy, from Space Telescope Science Institute, \$84,700, "Optimal Use of Hst for Obtaining Statistical Constraints for Sn lib Progenitors and Their Companions."

Stauffer, Cynthia V; biological sciences, from University of Notre Dame, \$151,082, "Determination of Structure, Dynamics and Energetics of Enzyme Reactions."

Stewart, Kara R; animal sciences, from Mait LLC, \$2,800, "Swine Research."

Stewart, Kara R; animal sciences, from Verility LLC, \$5,000, "Swine Research."

Strachan, Alejandro H; materials engineering, from Sandia National Laboratories, \$87,870, "Ab Initio Modeling of Phase Change Materials." (a Discovery Park award – Birk Nanotechnology Center)

Strachan, Alejandro H; materials engineering, from U.S. Department of Energy, \$205,242, "Shape Memory in Nanoscale Metallic Alloys; Modification 14 for Grant #14000196."

Strimel, Greg J; technology leadership and innovation, from VentureWell, \$20,000, "Seal-Y Spoon Level II."

Subbarayan-Shastri, Ganesh; mechanical engineering, from Semiconductor Research Corporation, \$85,000, "Nonlinear Multiscale Modeling for BEOL Structures; Amendment 2; Grant 40002569."

Subramanian to Zhu

Subramanian, Ramaswamy; Dhanabalan, Kanaga Vijayan and Noinaj, Nicholas; biomedical engineering, biological sciences, from Elanco Inc, \$228,131, "Structural Characterization of DiSLO-1 in Complex with Functional Modulators."

Titus, Michael S; materials engineering, from Multi-Sponsored Industrials, \$40,000, "Multi Sponsor Voluntary Support."

Tong, Yunjie; biomedical engineering, from Indiana University Purdue University at Indianapolis, \$50,236, "Comprehensive White-Matter Microstructure-Informed Analytical Methods to Elucidate Neurobiological Mechanisms of Sports-Related Concussion (SRC)."

Tormoehlen, Roger L and Field, William E; agricultural & biological engineering program, from National Institute of Food and Agriculture, \$2,254,000, "Gearing Up for Youth Education and Development for Employment in Agriculture."

Tuinstra, Mitchell R; agronomy, from Ag Alumni Seed Improvement Association, \$40,000, "Corn Research."

Vacca, Andrea; agricultural & biological engineering program, from NFPA Education and Technology Foundation, \$5,000, "Multi Sponsored Gift."

Vacca, Andrea; agricultural & biological engineering program, from Wipro Infrastructure Engineering, \$136,944, "A Study of a Secondary Controlled System for Excavator Based on a Multi-Chamber Cylinders."

Velasquez De Bedout, Juan D; Office of Corporate and Global Partnerships Administration, from Universidad Santiago de Cali, \$121,010, "Undergraduate Research Experience Purdue - Nexo Valle Del Cauca - 10 Students."

Wang, Haiyan; materials engineering, from Sandia National Laboratories, \$70,000, "LDRD/Sandia Academic Alliance (Saa)- Novel 2D Oxides for Strong Multiferroic Coupling Towards Reconfigurable Devices."

Wang, Haiyan; materials engineering, from Sandia National Laboratories, \$90,000, "Complex 3-D Linbo3-Magnetic Nanocomposites for Novel Acoustoelectric Devices."

Wang, Nien-hwa L; chemical engineering, from Smith, William E. III, \$10,000, "Shuttleworth North America."

Warsinger, David E M; mechanical engineering, from U.S. Department of Energy, \$23,334, "Thermally-Driven Batch Counterflow Reverse Osmosis." (a Discovery Park award - Birck Nanotechnology Center)

Webb, Kevin J; electrical & computer engineering, from Sandia National Laboratories, \$83,385, "(LDRD)Computational Imaging for Intelligence in Highly Scattering Aerosols."

Webb, Kevin J; electrical & computer engineering, from Air Force Office of Scientific Research, \$216,245, "Optical Imaging and Sensing in a Scattering Environment; Modification 2; Grant 13000717"

Weibel, Justin A; mechanical engineering, from Laird Technologies, \$7,500, "Cooling Technologies Research Center (CTRC), Laird Q3 40002838."

Weibel, Justin A; mechanical engineering, from Laird Technologies, \$7,500, "Cooling Technologies Research Center (CTRC), Laird Q1 40002838."

Whelton, Andrew J; civil engineering, from Ross Graduate Fellowship-Assistantship, \$4,422, "2017-18 Ross Fellowships/Assistantships - Graduate School."

Wilcox, Michael D; Cooperative Extension Service, from Turtle Mountain Band of Chippewa Indians, \$1, "Technical Assistance for Turtle Mountain Recovery Center."

Wilker, Jonathan J and Schmidt, Gudrun; chemistry, from Leidos, \$51,394, "Biomimetic Underwater Adhesives; Modification 3; Grant 13000845."

Wisecaver, Jennifer H; biochemistry, from Johns Hopkins University Applied Physics, \$86,149, "Development of Advanced Plant Technologies for the Detection of Environmental Threats."

Xu, Dongyan; computer science, from Salesforce, \$60,000, "CERIAS Voluntary Support."

Xu, Dongyan; computer science, from Raytheon, \$75,000, "CERIAS Voluntary Support."

Yang, Danzhou; medicinal chemistry & molecular pharmacology, from Gibson Oncology, \$10,000, "Multi Sponsor -Voluntary Support."

Ye, Peide; electrical & computer engineering, from Army Research Office, \$40,000, "Ballistic Phosphorene Transistor (Grant 13000410 Modification 11)."

Young, Bryan G; botany & plant pathology, from Helena Agri-Enterprises, LLC, \$3,000, "Multi Sponsored Gift Account."

Young, Bryan G; botany & plant pathology, from Chemorse, Ltd, \$4,500, "Multi Sponsored Gift Account."

Young, Bryan G; botany & plant pathology, from Kalo, Inc., \$7,200, "Multi Sponsored Gift Account."

Youngblood, Jeffrey P; materials engineering, from Oregon State University, \$37,391, "Examining the Utilization of Cellulose Nanocrystals to Reduce the Carbon Footprint of Concrete."

Yu, Denny and Asadi, Hamed; industrial engineering, from University of Cincinnati, \$7,000, "A Computer-Vision Technique to Predict Type/Level of Force Exertions."

Zhang, Xiangyu; computer science, from Perspecta Labs, \$220,000, "Abs: an Analytic Approach to Scanning Neural Networks for Back-Doors by Artificial Brain Stimulation."

Zheng, Wei; health sciences, from the University of Texas South Western Medical Center, \$35,549, "Environmental Epidemiology of Essential Tremor."

Zhou, Chenn Qian; mechanical & civil engineering, from Advanced Technology International, \$83,208, "High Pressure Die Casting Process Simulation for the Shop Floor; Modification 3; Grant 13000668."

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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