

Adeola to Buczkowski

Adeola, Olayiwola; animal sciences, from United Animal Health, \$38,000, "Danisco."

Akridge, Jay T; Bertoline, Gary R and Phillips, Rhonda G; Office of Provost Administration, polytech administration, Honors College administration, from Lilly Endowment Inc., \$5,000,000, "Innovation College at Purdue University."

Alexeenko, Alina; aeronautics & astronautics, from Daiichi Sankyo Co, Ltd, \$10,000, "LyoHub Consortium- Daiichi Sankyo."

Alexeenko, Alina; aeronautics & astronautics, from Medimmune, Inc, \$10,000, "LyoHub Consortium-Medimmune LLC."

Allebach, Jan P; Davies, Patricia; Bolton, J Stuart and Chiu, George T; electrical & computer engineering, mechanical engineering, from HP Inc, \$210,000, "Print Quality Improvement."

Allebach, Jan P; electrical & computer engineering, from Xerox Corp, \$60,000, "Qingyu Yang Internship – Applications of Computer Vision and Machine Learning to Image Quality."

Allebach, Jan P; electrical & computer engineering, from HP Inc, \$100,000, "Industrial Inspection."

Allebach, Jan P and Chiu, George T; electrical & computer engineering, mechanical engineering, from Sunvalleytek, \$165,000, "Commissioning the Development of Nail Printer Products (Grant 40003001)."

Alsop, Janet M; curriculum & instruction, from Purdue University Frederick N. Andrews Fellowship, \$17,855, "Yang, Yao."

Ambrose, Rose Prabin Kingsly; Agricultural & Biological Engineering Program, from Occupational Safety & Health Admin, \$74,553, "Training Workers on Advanced Dust Explosion Prevention Methods."

Arling, Gregory W; nursing, from Department of Veterans Affairs, \$13,196, "Arling-IPA – Extension of Current IPA with Roudebush VHA."

Arriaga, Ximena B; psychological sciences, from National Science Foundation, \$29,997, "VSEE Appointment at NSF: Reimbursement of Fringes."

Balagtas, Joseph V; agricultural economics, from Office of the Chief Economist, \$100,000, "Consumer Demand for Food at Home and Food Away from Home and Implications for Derived Demand for Agricultural Commodities."

Bartholomew, Sarah; psychological sciences, from Oregon Health Sciences University, \$8,882, "ADHD Heterogeneity, Mechanisms, and Risk Profile."

Bartholomew, Sarah; psychological sciences, from Cincinnati Children's Hospital Medical Center, \$10,850, "Parsing Neurobiological Bases of Heterogeneity in ADHD."

Beaulieu, Lionel J; Cruz-Porter, Annie K; Kumar, Indraneel; Zhalnin, Andrey and Wilcox, Michael D; Office of Engagement Administration, agricultural administration, from Economic Development Administration, \$160,000, "Harnessing the Economic Assets of Indiana Regions and Communities: Strengthening Information, Collaboration and Innovation (Grant 18100031)."

Beaulieu, Lionel J; agricultural economics, from Indiana University, \$10,000, "HH SBDC Multi Sponsor Account."

Beaulieu, Lionel J; Purdue Center for Regional Development, from Mississippi State University, \$15,000, "Youth Workforce Development Online Training."

Bigelow, Cale A; horticulture & landscape architecture, from SePRO Corporation, \$20,000, "Putting Greens Research."

Blatchley, Ernest R; civil engineering, from Whirlpool Corp, \$24,820, "Removal and Inactivation of Viruses in Residential Laundry Operations."

Bolin, Jeffrey T; research development administration, from Purdue Research Foundation, \$56,649, "FY20-21 PRF Grants (60000029)."

Boudouris, Bryan W; chemical engineering, from National Science Foundation, \$226,088, "NSF IPA Agreement – Bryan Boudouris."

Bouman, Charles A; electrical & computer engineering, from Air Force Research Laboratory, \$90,000, "Integrating AI and Advance Algorithmic Methods to Achieve Real-Time Coherent Optical Wavefront Sensing through Atmospheric Turbulence."

Bouman, Charles A; electrical & computer engineering, from General Electric Company, \$137,347, "Deep Learning for Improved Noise and Artifact Removal in X-Ray CT."

Bramson, Ali; earth, atmospheric & planetary sciences, from Johns Hopkins University Applied Physics, \$3,125, "Ali Bramson: NASA Lro Mini-RF Esm4."

Braun, James E; mechanical engineering, from Johnson Controls, Inc., \$50,000, "Center for High Performance Building Consortium-Johnson Controls."

Braun, James E and Horton, William Travis; civil engineering, from Northwest Energy Efficiency Alliance, \$105,000, "Performance Characterization of Air-to-Air Heat/Energy Recovery Ventilators."

Brewer, Brady E; Baker, Timothy G; Kuethe, Todd Henry and Williams, David J; agricultural economics, from Economic Research Service, \$30,000, "Examining the Consumption-Risk of Farm-Households and the Significance of Income Variability."

Brown, Nadia E; political science, from American University, \$19,000, "Bridges: How Black Women Coordinate the Lawmaking Efforts of Identity-Based Caucuses."

Brown, Paul B; Rode, Robert A and MacGowan, Brian J; forestry & natural resources, from Iowa State University, \$34,400, "Non-Lethal Sound Deterrent in Aquaculture."

Bryan, Lynn A; curriculum & instruction, from U.S. Department of Education, \$791,402, "STEM Teacher Residency in IPS (Grant 19100066)."

Buczkowski, Grzegorz A; entomology, from Biomineral Systems LLC, \$1,500, "Multi Sponsored."

Buczkowski, Grzegorz A; entomology, from MGK Insect Control Solutions, \$3,750, "Multi Sponsored."

Caffee to Garner

Caffee, Marc W; physics & astronomy, from U.S. Geological Survey, \$28,100, "Cosmogenic Nuclide Analysis."

Caffee, Marc W; physics & astronomy, from National Aeronautics and Space Administration, \$157,000, "Cosmic-Ray-Produced Radionuclides from Returned Samples as Indicators of Dynamic Surface Regolith Processes: Improvements in Ams Analytical Techniques; Supplement 2; Grant 12000293."

Campbell, Wayne W; nutrition science, from Mushroom Council, \$317,870, "Nutrimetabolomics and Human Health Promotion of Mushrooms."

Cardella, Monica E; engineering education, from National Science Foundation, \$221,206, "NSF IPA – Monica Cardella."

Carlton, Joshua S and Quagrainie, Kwamena K; Illinois-Indiana Sea Grant, agricultural economics, from University of Minnesota, \$44,276, "Great Lakes Sea Grant Aquaculture Collaborative."

Carvajal, Teresa M; Agricultural & Biological Engineering Program, from Multi-Sponsored Industrials, \$600, "Multi Sponsored Gift Fund."

Carvajal, Teresa M; Agricultural & Biological Engineering Program, from Biokorf LLC, \$1,500, "Multi Sponsored Gift Fund."

Casteel, Shaun N; agronomy, from Nachurs Alpine Solutions Inc, \$15,000, "Soybean Extension Research."

Chen, Chao and Chen, Zesheng; electrical & computer engineering, FW Computer Science, from Guardian Machine Protection LLC, \$25,000, "Indiana Innovation Vouchers Project: Guardian IoT Monitoring System."

Chen, Yong P; electrical & computer engineering, from Los Alamos National Laboratory, \$75,000, "The Quantum Light Emitting Defects." (a Discovery Park award – Birk Nanotechnology Center)

Chen, Yong P and Xie, Wei; electrical & computer engineering, physics & astronomy, from U.S. Department of Energy, \$100,000, "Exploring Applications of Quantum Materials in Nuclear Physics Experiments." (a Discovery Park award – Birk Nanotechnology Center)

Connor, Robert J and Dick, Stephen M; civil engineering, from National Academy of Engineering, \$100,000, "Development of a Fatigue Load for Railway Bridges."

Cooks, Robert Graham; chemistry, from U.S. Department of Homeland Security, \$398,457, "Mass Spectrometry (MS) Techniques for Metabolomic Fingerprinting of Pathogens."

Cooks, Robert Graham; chemistry, from University of Colorado, \$3,260, "Quantitation of Tenofovir-Diphosphate (TFV-DP) in Blood Cells."

Crossley, William A and Delaurentis, Daniel A; aeronautics & astronautics, from Federal Aviation Administration, \$225,000, "Ascent Project 10 – Aircraft Technology Modeling and Assessment."

Cruz, Christian D; botany & plant pathology, from Agricultural Research Service, \$190,800, "Tar Spot of Corn: Characterizing the Ecology and Epidemiology of an Understudied and High-Profile Disease."

Cui, Meng; electrical & computer engineering, from PHS-NIH National Institute Neurological Disorders and Strokes, \$443,140, "Optimization of Clear Optically Matched Panoramic Access Channel Technique (COMPACT) for Large-Scale Deep-Brain Neurophoton Interface."

Deering, Amanda J; food science, from Diversey, Inc, \$10,000, "Multi Sponsored Gift Account."

Delaurentis, Daniel A; aeronautics & astronautics, from Frontier Technology Inc, \$10,000, "Command, Control, Communications, Cyber and Business Systems OUSD (A&S) DASD C3CB."

Delp, Edward J; electrical & computer engineering, from Defense Advanced Research Projects Agency, \$800,000, "Analyzing the Integrity of Scientific Images-Phase II."

Delp, Edward J and Comer, Mary L; electrical & computer engineering, from Lockheed Martin Corp., \$99,000, "Multi-Entity Activity Characterization (Grant 40002200)."

El-Azab, Anter A and Wharry, Janelle P; materials engineering, from Battelle Energy Alliance LLC, \$440,000, "Center for Thermal Energy Transport Under Irradiation (Grant 14000403 Amendment #5)."

Enders, Laramy S and Schemerhorn, Brandon J; entomology, from Agricultural Research Service, \$59,000, "Hessian Fly-Resistance in Wheat."

Fasanya, Bankole K; construction science and organizational leadership, from Indiana Campus Compact, \$2,500, "Investigating the Challenges of COVID-19 on STEM Students Future Retention in Two Universities in Indiana."

Fei, Songlin and Kong, Ningning Nicole; forestry & natural resources, libraries administration, from US Forest Service, \$73,842, "Linking Forest Structure, Function, and Diversity in Support of Carbon Estimation in the United States."

Feng, Yaohua; Chastain, Cindra M and Deering, Amanda J; food science, Agricultural & Biological Engineering Program, from National Institute of Food and Agriculture, \$200,000, "Expanding the Culturally-Tailored Food Safety Education for Veteran Farmers."

Field, William E; Agricultural & Biological Engineering Program, from Katelyn Duban, \$103, "Farm Safety."

Field, William E; Chastain, Cindra M; Ballard, Roy W and Sheldon, Edward J; Agricultural & Biological Engineering Program, Cooperative Extension Service, from Hoosier Uplands Economic Development Corp, \$121,757, "Enhancing Agricultural Opportunities for Military Veterans."

Field, William E and Jones, Paul J; Agricultural & Biological Engineering Program, from National Institute of Food and Agriculture, \$536,431, "National Agrability 2020-2021."

Fischbach, Ephraim; physics & astronomy, from John Gruenwald, \$1,000, "E. Fischbach Research Support."

Foli, Karen J; Adams, Nicole; Kersey, Susan J; Good, Becky S and Ott, Carol A; nursing, pharmacy practice, from Substance Abuse and Mental Health Services Administration, \$200,000, "Expansion of Practitioner Education (Prac-Ed): Delivering Nurses? Substance Use Education through a Massive Open Online Course (NSUE-MOOC)."

Frueh, Carolin E; aeronautics & astronautics, from Universities Space Research Association, \$23,594, "Novel Methods and Algorithms for Space Traffic Management."

Garcia Bravo, Jose M; engineering technology, from NFPA Education and Technology Foundation, \$5,000, "Multi Sponsor – Voluntary Support."

Garner, Allen L; nuclear engineering, from Luna Innovations Incorporated, \$274,892, "Development of the Magaid for Simplified Pain Management During Prolonged Field Care Using Magnetic Fields."

Ginzel to Karcher

Ginzel, Matthew D; forestry & natural resources, from US Forest Service, \$35,000, "Integrated Pest Management of Thousand Cankers Disease."

Goldenstein, Christopher S; mechanical engineering, from National Aeronautics and Space Administration, \$199,874, "Ultrafast Laser Absorption Spectroscopy for Characterizing Shock-Heated Gases."

Gomez, Luis Javier; electrical & computer engineering, from Duke University, \$44,900, "Transcranial Magnetic Stimulation with Enhanced Focality and Depth (fdTMS)."

Goni Cortes, Joaquin; industrial engineering, from Indiana University Purdue University at Indianapolis, \$33,194, "Statistical Models for Multi-Modal Brain Imaging Studies of HIV-Associated Cognitive Decline (Grant 11000503)."

Gray, Nicholas W; TRIO Programs, from U.S. Department of Education, \$297,601, "PFW Upward Bound I (Grant 19100055)."

Gray, Nicholas W; TRIO Programs, from U.S. Department of Education, \$297,601, "PFW Upward Bound II (Grant 19100055)."

Guan, Wenjing; horticulture & landscape architecture, from Hazera Seeds USA Inc, \$1,500, "General Research Activities."

Guan, Wenjing; horticulture & landscape architecture, from United Genetics Seed Company, \$1,200, "General Research Activities."

Hamer, Lawrence Olin; business administration, from Indiana University Northwest, \$15,000, "Northwest Indiana Small Business Development Center 2020 – IUN Cash Match Support."

Hamilton, Roy L; Educational Opportunities Program, from U.S. Department of Education, \$11,142, "Ronald E. McNair Post-Baccalaureate Achievement Program."

Harbin, Sherry L; biomedical engineering, from Indiana University Purdue University at Indianapolis, \$46,320, "NIH F30 Fellowship – Jd Damrath."

Harbin, Sherry L; basic medical science, from Indiana University School of Medicine, \$445,625, "Muscle Progenitor Cell-Based Implants for Dynamic Laryngeal Muscle Reconstruction."

Harbin, Sherry L; basic medical science, from GeniPhys LLC, \$29,478, "Collymer Production."

Hartman, Nathan W; computer graphics technology, from Rockwell Collins, \$50,000, "Product Lifecycle Management Center of Excellence (PLM)."

Heister, Stephen D; aeronautics & astronautics, from National Aeronautics and Space Administration, \$15,000, "Quasi-1 Dimensional Modeling of Rotational Detonation Engines – Jenna Humble."

Hendrix, Gena Kenitra; Burcham, Grant N and Zollner, Patrick A; comparative pathobiology, Animal Disease Diagnostic Laboratory, forestry & natural resources, from Animal Plant Health Inspection Service, \$3,000, "Investigating the Pathology of Black Vulture Depredation in Livestock."

Hertel, Thomas W; agricultural economics, from Economic & Social Research Institute, \$20,435, "GTAP Consortium (ESRI)."

Hirleman, E Daniel; Office of Corporate & Global Partnerships Administration, from Dr. Reddy's Laboratories, \$44,694, "DLR Fellowship Sumit Kumar."

Hirst, Peter M; Shively, Gerald E; Engel, Bernard A; Bogan, William W and Buckmaster, Dennis; horticulture & landscape architecture, International Programs in Agriculture, agricultural research & graduate education, Agricultural & Biological Engineering Program, from Foreign Agricultural Service, \$349,991, "Global Agricultural Innovation Agenda and Forum."

Hook, Tomas O; forestry & natural resources, from Michigan Department of Natural Resources, \$215,132, "Post-Restoration Assessment of Saginaw Bay Spawning Reefs."

Horgan, Briony H; earth, atmospheric & planetary sciences, from National Aeronautics and Space Administration, \$45,000, "Investigating the Origin of Sediments within the Polar Layered Deposits of Mars – Fellowship for Prakhar Sinha."

Howarter, John A; materials engineering, from Semiconductor Research Corporation, \$23,400, "Undergraduate Research Program; Amendment 1, Grant 40002862."

Hultgren, Kyle E; Center for Medication Safety, from Eli Lilly and Company, \$138,523, "Purdue/Eli Lilly/FDA Medication Safety Fellowship."

Irfanoglu, Ayhan and Prakash, Arun; civil engineering, from Battelle Energy Alliance LLC, \$67,245, "Specialized Technical Support to INL for Seismic Isolation Strategies and Soil-Structure Interaction Analysis (Grant 14000416 Mod 5)."

Jenkins, Michael A; forestry & natural resources, from US Forest Service, \$93,000, "Assessment of Recent Chestnut Oak (*Quercus Montana*) Mortality Associated with an Unknown Disease in Indiana."

Jiang, Wen; biological sciences, from Indiana University, \$264,631, "Atomic Models of Human Tau Filaments and Development of Tau Ligands."

Jiao, Dan; electrical & computer engineering, from Corvid Technologies, \$30,000, "High Fidelity and Highly Efficient Radome Optimization and Design Tool in the Presence of Antennas and Airframes."

Johnson, Brandon Charles; earth, atmospheric & planetary sciences, from National Aeronautics and Space Administration, \$90,000, "Dynamics of the Early Solar System and Implications for the Possible Impact Origin of Chondrules (Grant 12000329; Modification #3)."

Johnson, David R; industrial engineering, from Water Institute of the Gulf, \$95,264, "Environmental Science Consulting Services: Risk Assessment Phase 3."

Johnson, Timothy; animal sciences, from Agricultural Research Service, \$35,231, "Effect of Probiotics on Aggression in Laying Hens."

Johnson, William G and Young, Bryan G; botany & plant pathology, from Indiana Corn Marketing Council, \$50,074, "Do Cover Crops Reduce Herbicide Activity in No-Till Corn Production Systems?."

Johnson, William G; botany & plant pathology, from BASF Corporation, \$11,400, "Weed Science Research Voluntary Support."

Johnson, William G; botany & plant pathology, from FMC Corporation, \$12,000, "Weed Science Research Voluntary Support."

Johnson, William G; botany & plant pathology, from BASF Corporation, \$22,500, "Weed Science Research Voluntary Support."

Johnson, William G; botany & plant pathology, from Corteva AgriScience, \$500, "Weed Science Research Voluntary Support."

Jung, Andreas; physics & astronomy, from Fermi National Accelerator Laboratory, \$238,154, "High Luminosity (HL) LHC CMS Detector Upgrade Project Outer Tracker."

Karcher, Darrin M; animal sciences, from Midwest Poultry Federation Inc, \$1,000, "Poultry Research."

Karcher, Darrin M; animal sciences, from Agricultural Marketing Service, \$140,000, "Impact of Egg Handling and Long-Term (25 Wk) Storage on Egg Physical and Microbial Quality."

Karwa to Pace

Karwa, Rakhi; Miller, Monica L; Gonzalvo, Jasmine D and Pastakia, Sonak D; pharmacy practice, from Public Health Institute, \$53,524, "Health Equity and Global Health Fellowship."

Kever, Shubitha S; TRIO Programs, from Council for Opportunity in Education, \$8,000, "COE Emergency Grant Aid – Purdue Fort Wayne."

Kinzer-Ursem, Tamara L; biomedical engineering, from University of Colorado at Boulder, \$94,040, "Biomechanical Influence of ECM Remodeling on the Developing Enthesis."

Kladivko, Eileen J and Rorick, Joseph D; agronomy, from Indiana Association of Soil and Water Conservation Districts, \$244,273, "Conservation Agronomist 2020."

Knipp, Gregory Thomas; industrial and physical pharmacy, from Elanco Inc, \$3,781, "Elanco Antibody Discovery Immunization Studies."

Krogmeier, James V; electrical & computer engineering, from Geologic TimeScale Foundation, \$10,000, "Multi Sponsor."

Krupke, Christian H; entomology, from Liberty Prairie Foundation, \$350, "Entomology – Research."

Labi, Samuel; civil engineering, from University of Michigan, \$819,270, "USDOT Center for Connected Automated Transportation (CCAT) – Region 5 UTC."

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

Lee, John G and Reeling, Carson J; agricultural economics, from Indiana Department of Natural Resources, \$187,533, "Impacts on Harvest Resulting from License Structure Changes."

Liceaga, Andrea M; food science, from Handy Seafood Inc., \$1,000, "Multi Sponsored Gift- Sensory."

Liceaga, Andrea M; food science, from AquaBounty Technologies, Inc, \$15,700, "Sensory Evaluation Analysis of Farmed Salmon (Salmo Salar)."

Liceaga, Andrea M; food science, from Mandy Foods, \$1,500, "Multi Sponsored Gift- Sensory."

Linnes, Jacqueline C and Mohammed, Sulma I; biomedical engineering, comparative pathobiology, from PHS-NIH National Cancer Institute, \$384,085, "Point-of-Care Screening Test for Early Cervical Cancer Detection."

Liu, Sa and Johnson, Jennifer L; health sciences, anthropology, from Robert Wood Johnson Foundation, \$359,000, "Groundwater Contamination and Health Equity in a Deindustrialized Midwestern Community."

Liu, Yangfan and Wang, Yiming; mechanical engineering, from Beijing Ancsonic Technology Co. Ltd, \$282,211, "Active Noise Control and its Applications (Grant 40002633)."

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

Lusk, Jayson L; agricultural economics, from Multi-Sponsored Industrials, \$50,000, "Multi Sponsor."

Lusk, Jayson L; agricultural economics, from Central Indiana Community Foundation (CICF), \$49,998, "Impact of COVID-19 on the State of Indiana's Food Supply Chain."

Mansfield, Charles W; agronomy, from Taminco US, \$2,000, "Corn Research."

Marconnet, Amy M; mechanical engineering, from Intel Corporation, \$5,500, "Testing of High Thermal Conductance Interfaces."

Mayer, Theresa Stellwag; Lynall, Matthew D and Duval-Couetil, Nathalie A L; Burton D. Morgan Center, management, technology leadership & innovation, from University of Michigan, \$92,837, "I-Corps Node: Activating the Midwest I-Corps Network" (a Discovery Park award – Burton D. Morgan Center)

Mendrysa, Susan M; Figueiredo, Marxa L; Hogenesch, Harm; Craig, Latonia L; Parker, Loran Carleton and Raghavan, Malathi; basic medical science, veterinary medicine administration, education administration, from PHS-NIH National Institute of General Medical Science, \$267,072, "Purdue Prep for Translational Biomedical Sciences."

Meyer, Scott E; mechanical engineering, from Hyperion Rocket Systems Inc, \$257,882, "LOX/Jet-A Engine Development Testing at Zucrow Laboratories on the 10k Stand."

Meyers, Stephen Lawrence; horticulture & landscape architecture, from North Carolina State University, \$214,797, "A Multifaceted Approach to Production Methods and Pest Management in Organic Sweetpotato Systems."

Minton, David A; earth, atmospheric & planetary sciences, from University of Central Florida, \$104,493, "Investigating a Ring Formation Mechanism for Centaurs and TNOs."

Mohammadhasanzadeh, Sogand; civil engineering, from ELECTRI International Inc, \$9,000, "Examining a Latent Side-Effect of Electrical Safety Interventions Among T&D Line Workers."

Mohammadi, Mohsen; agronomy, from Ohio State University, \$10,500, "Cultivar Development: Establishing a Public Breeding Consortium and Synergies for Field Testing through Genomic Breeding."

Mosier, Nathan S; Agricultural & Biological Engineering Program, from Indiana Soybean Alliance, \$117,919, "Purdue Student Soy Innovation Competition."

Mudawar, Issam; mechanical engineering, from National Aeronautics and Space Administration, \$61,000, "Flow Boiling and Condensation Experiment (FBCE); Amendment 14, Grant 12000151."

Mukherjee, Partha P; mechanical engineering, from North Carolina State University, \$57,000, "NSF CMMI Data Science Supplement: "High Performance Energy Storage Electrodes through Oxide Electrodeposition in Carbon Nanotube Fabric Scaffolds."

Mukherjee, Partha P; mechanical engineering, from Sandia National Laboratories, \$68,500, "Credible Computational Meshes from Ill-Defined Geometries Using Deep Machine Learning."

Neumeister, Norbert; physics & astronomy, from Princeton University, \$206,429, "US CMS Group at Purdue University for Activities Related to the US CMS Software & Computing Subsystem – Tier 2 Equipment."

Olek, Jan; civil engineering, from Indiana Department of Transportation, \$61,155, "SPR 4447: MEPDG Implementation (Validation/Model Calibration/ Acceptable Distress Target/IRI Failure Trigger/Thermal Selection/Binder Selection) (Grant 21000295)."

Pace, William M; Leach, Sarah E and Prygoski, Megan E; Polytechnic Statewide Technology, Polytechnic South Bend, from University of Notre Dame, \$50,000, "Lift Digital Skills Accelerator Fund."

Paniagua to Saraswat

Paniagua Perez, Guillermo; mechanical engineering, from Rolls-Royce Corporation, \$166,668, "Rig Design, Manufacture, Test and Analysis of an Annular Cascade for 3-D Blading Design Aerothermal Performance Validation (RDA3DValidation) – Phase 1."

Panigrahi, Suranjan; engineering technology, from Fort Valley State University, \$12,500, "Sensor-Linked Management Techniques for Enhancing Water Use Efficiency, Yield and Quality of Peanuts – a Multidisciplinary Approach."

Parsons, Paul; computer graphics technology, from University of California – San Diego, \$104,551, "Year 5 S2I2: Impl: the Science Gateways Community Institute (SGCI) for the Democratization and Acceleration of Science."

Pasternak, Jonathan A; animal sciences, from Agricultural Research Service, \$21,917, "Evaluating the Interactions Between Swine Behavior and Heat Stress Response."

Patton, Aaron J; horticulture & landscape architecture, from Amvac Chemical Corporation, \$6,400, "Patton Multi Sponsored #2 (Orig 301226)."

Patton, Aaron J; horticulture & landscape architecture, from Marubeni Corporation, \$9,800, "Efficacy and Safety of HM0814 with Primo."

Peterson, John R; physics & astronomy, from University of Arizona, \$15,000, "Updated Implementation of the JWST NIRC2 Instrument in the Photon Simulator (PhoSim)."

Pourpoint, Timothee L; aeronautics & astronautics, from Analytical Mechanics Associates, Inc, \$4,000, "Propulsion Technical Discipline Team Support."

Pourpoint, Timothee L and Poggie, Jonathan; aeronautics & astronautics, from Sandia National Laboratories, \$100,000, "Hypersonic Wind Tunnel."

Pyrak-Nolte, Laura J; Physics & astronomy, from Sandia National Laboratories, \$88,830, "Advanced Detection of Wellbore Failure for Safe and Secure Utilization of Subsurface Infrastructure."

Radcliffe, John Scott; animal sciences, from AZOMITE Mineral Products Inc, \$10,000, "Multi-Sponsored."

Rainey, Katherine Martin; agronomy, from Agricultural Research Service, \$10,010, "Acquisition of Goods and Services."

Rainey, Katherine Martin; agronomy, from United Soybean Board, \$654,030, "Modifying Soluble Carbohydrates in Soybean Seed for Enhanced Nutritional Energy Meal."

Rainey, Katherine Martin; agronomy, from United Soybean Board, \$58,000, "The Coordinated Soybean Centers: Proposal Planning for Addressing Demand for Soybean in Plant- Based Proteins."

Raman, Arvind; Sinfield, Joseph V and Yih, Yuehwern; engineering administration, civil engineering, industrial engineering, from Agency for International Development, \$50,000, "Laser Partners for University-LED Solutions Engine (PULSE)."

Raman, Arvind; Sinfield, Joseph V and Yih, Yuehwern; engineering administration, civil engineering, industrial engineering, from Agency for International Development, \$75,934, "Laser Partners for University-LED Solutions Engine (PULSE)."

Ratliff, Timothy L and Fleet, James C; comparative pathobiology, Nutrition Science, from Indiana University, \$8,435, "Immunomodulation by Dietary Protein Restriction."

Ribeiro, Fabio H; chemical engineering, from Gas Technology Institute, \$15,000, "CISTAR Industrial Consortium."

Ribeiro, Fabio H; chemical engineering, from Chevron Chemical Co., \$30,000, "CISTAR Industrial Consortium, Chevron Phillips Chemical – 40001938."

Ribeiro, Fabio H; chemical engineering, from Johnson Matthey Electronics, \$60,000, "CISTAR Industrial Consortium, Grant 40001938 Johnson Matthey Plc."

Richert, Brian T; animal sciences, from AZOMITE Mineral Products Inc, \$10,000, "Swine Research."

Richmond, Douglas Scott; entomology, from Bayer Environmental Science, \$34,000, "Turfgrass Entomology Research."

Ricker-Gilbert, Jacob E; agricultural economics, from International Food Policy Research Institute, \$17,057, "Modelling Opportunities and Constraints for Technology Uptake in Malawi."

Riley, Donna M; engineering education, from George Washington Carver Fellowship, \$26,378, "Brown, Harriet, Paige Lewter."

Robinson, Joseph Paul; Bae, Euiwon and Rajwa, Bartlomiej P; basic medical science, mechanical engineering, from Agricultural Research Service, \$100,000, "Automated Portable Sensing Technologies for Screening Food Contaminants."

Rodriguez, Catalina E; Educational Opportunities Program, from U.S. Department of Education, \$318,333, "Ronald E. McNair Post-Baccalaureate Achievement Program (Year 4) (Grant 19100060)."

Rodriguez, Natalia Maria; Gonzalvo, Jasmine D; Meredith, Ashley H and Ruiz, Yumary; public health, pharmacy practice, from Indiana Clinical & Translational Science Institute, \$3,000, "Indiana Community Health Workforce Development Institute."

Rodriguez, Natalia Maria; public health, from Indiana Clinical & Translational Science Institute, \$18,750, "Mitigating COVID-19 Impacts on the Homeless Population of Tippecanoe County: a CHW-LED Approach."

Roy, Kaushik; electrical & computer engineering, from University of Pennsylvania, \$66,667, "New Phase Change Materials for Photonics: from In-Silico Design to Novel Device Concepts; Amendment 4; Grant 13000591."

Sadeghi, Farshid; mechanical engineering, from Toyota Motor Manufacturing Inc., \$50,000, "Experimental and Analytical Investigation of Micropitting (Surface) & Subsurface Gear Fatigue."

Sadof, Clifford S; entomology, from US Forest Service, \$65,000, "EAB University: Using Web-Based Seminars Cooperatively to Provide Information About EAB and Other Invasive Forest Health Issues to Targeted Audiences."

Santagata, Maria Caterina; civil engineering, from Indiana Department of Transportation, \$35,000, "SPR #4327 – Development of Compaction Control Guidelines for Aggregate Drainage Layers and Evaluation of in Situ Permeability Testing Methods for Aggregates."

Saraswat, Dharmendra; Ault, Aaron C; Buckmaster, Dennis; Chaterji, Somali; Krogmeier, James V; Raturi, Ankita and Ward, Mark Daniel; Agricultural & Biological Engineering Program, electrical & computer engineering, statistics, from National Institute of Food and Agriculture, \$739,050, "Computational Skills Development for Next Generation Agriscience Professionals for Sustaining Data Driven Agriculture."

Schneider to Thompson

Schneider, Steven P; aeronautics & astronautics, from Office of Naval Research, \$120,000, "Towards a Mechanism-Based Procedure for Predicting Boundary-Layer Transition on Slender Cones with Highly Swept Fins: Further Mach-6 Quiet-Tunnel Measurements (Grant 13000769; Modification 2)."

Schoenlein, William E; biomedical engineering, from Cook Research Incorporated, \$46,736, "Pre-Clinical Evaluation Testing Agreement: Studies: CMH-HPQS, CBI-BFOW and POC."

Schoenlein, William E; biomedical engineering, from Cook Research Incorporated, \$38,826, "Pre-Clinical Evaluation Testing Agreement: Studies: CMH-SDVT, CMH-RDC1, CBI-RECD and POC."

Schwichtenberg, Amy J M and Kellerman, Ashleigh M; human development and family studies, from PHS-NIH National Institute of Child Health and Human Development, \$45,520, "Temporal Dyadic Processes in Autism Risk and Treatment – Fellowship for Ashleigh Kellerman."

Scott, David E and Caffery, Sarah K; Indiana State Chemist, from Environmental Protection Agency, \$440,724, "FY2021 EPA Pesticide Cooperative Agreement."

Sepulveda, Maria Soledad; forestry & natural resources, from Florida Atlantic University, \$70,188, "Ensuring a Steady Supply of Warm Water Marine Finfish Seed Stock to Support the Development of the US Aquaculture Industry using Florida Pom."

Shakouri, Ali; electrical & computer engineering, from Bayer Crop Science, \$35,000, "Consortium on Printing and Scalable Manufacturing of Aware and Responsive Thin Films (SMART)-Bayer Corp." (a Discovery Park award – Birck Nanotechnology Center)

Shakouri, Ali; electrical & computer engineering, from AeXonis Inc, \$35,000, "Consortium on Printing and Scalable Manufacturing of Aware and Responsive Thin Films (SMART)-AeXonis Inc." (a Discovery Park award – Birck Nanotechnology Center)

Shalae, Vladimir M; Boltasseva, Alexandra and Kildishev, Alexander V; engineering administration, electrical & computer engineering, from Office of Naval Research, \$4,826,764, "Novel Materials and Approaches for Nanolasing." (a Discovery Park award – Birck Nanotechnology Center)

Sheehan, Amy Heck; pharmacy practice, from Eli Lilly and Company, \$116,700, "Purdue/Eli Lilly and Company Advertising and Promotion Pharmaceutical Fellowship."

Shin, Yung C; mechanical engineering, from Tennessee Tech University, \$31,673, "Development of Corrosion- and Erosion-Resistant Coatings for Advanced Ultra-Supercritical Materials, Amendment 1; Grant 14000481."

Simpson, Vicki L; nursing, from Indiana Clinical and Translational Sciences Institute, \$2,093, "Enhancing an Academic-Community Partnership to Improve Outcomes."

Siskind, Jeffrey M; electrical & computer engineering, from IBM, \$271,790, "Purdue Subcontract for the IBM Proposal to IARPA DIVA (Grant 13000609)."

Slabaugh, Carson D; aeronautics & astronautics, from Stennis Space Center, \$75,000, "Altitude Systems Testing."

Slabaugh, Carson D; aeronautics & astronautics, from Air Force Office of Scientific Research, \$119,397, "Detonation Physics for Propulsion Applications."

Smith, Aaron D; entomology, from The Coleopterists Society, \$6,000, "Multi Sponsor."

Snow, Lowell D; Weger, Kelly R and Coy, Jon P; Technical Assistance Program/ Manufacturing Extension Partnership, from Indiana Department of Environmental Management, \$90,000, "W.A.S.T.E. Stream Mapping assessments."

Son, Steven F and Manship, Timothy D; mechanical engineering, materials engineering, from Adranos Energetics LLC, \$5,944, "Testing Contract SOW for Adranos Inc."

Son, Steven F; Rhoads, Jeffrey Frederick and Scalo, Carlo; mechanical engineering, from Los Alamos National Laboratory, \$244,000, "Additively Manufactured Energetic Sensors (AMES); Modification 1, Grant 14000503."

Stewart, Kara R; animal sciences, from Mait LLC, \$5,599, "Swine Research."

Straw, Mark L and Byers, Candy S; animal sciences, State Egg Board, from Agricultural Marketing Service, \$53,400, "Country of Origin Labeling for Retail Surveillance Activities."

Sundaram, Shreyas; electrical & computer engineering, from SPG Institute, Inc., \$60,600, "Risk-Aware Path Planning and Sensor Data Collection by Teams of Mobile Agents."

Sutherland, John W; Abdel-Khalik, Hany S and Zhang, Xinghang; nuclear engineering, materials engineering, from U.S. Department of Energy, \$800,000, "Reinforcement Learning Validation Framework for Quality Assurance of AI-Guided Additive Manufacturing Digital Platforms."

Tarko, Andrew P; Romero, Mario A and Thomaz, Jose E; civil engineering, from Indiana Criminal Justice Institute, \$155,746, "Indiana Safety Belts Survey and Codes Project."

Taylor, Lynne S; industrial and physical pharmacy, from American Association of Pharmaceutical Scientists, \$10,000, "Multi Sponsor – Voluntary Support."

Taylor, Lynne S; industrial and physical pharmacy, from Applied Materials, \$263,135, "Atomic Layer Deposition to Improve Physical Stability of Amorphous Solid Dispersions."

Taylor, Zoe E; Ruiz, Yumary and Suitor, J Jill; human development and family studies, health & kinesiology, sociology, from PHS-NIH National Center on Minority Health and Health Disparities, \$649,768, "Mental and Physical Health in Children of Latino Migrant Farm Workers: a Multi-Level Longitudinal Examination of Risk and Resilience Factors."

Telenko, Darcy E P; botany & plant pathology, from Iowa State University, \$22,000, "Developing an Integrated Management and Communication Plan for Soybean Sudden Death Syndrome."

Telenko, Darcy E P; botany & plant pathology, from BASF Corporation, \$7,000, "Extension Voluntary Support."

Telenko, Darcy E P; botany & plant pathology, from BASF Corporation, \$20,000, "Extension Voluntary Support."

Tesmer, John; biological sciences, from University of Pittsburgh Medical Center, \$49,449, "New Mechanisms for Modulating the Malt1 Oncoprotein; Amendment 2, Grant 11000786."

Thompson, Aaron W; horticulture & landscape architecture, from Green Lake Association, \$30,244, "Big Green Lake Shoreland Owner Social Science Survey."

Thompson to Yih

Thompson, Michelle S; earth, atmospheric & planetary sciences, from National Aeronautics and Space Administration, \$86,533, "Combining Novel Experimental Techniques with Returned Sample Analyses to Better Understand the Space Weathering of Planetary Surfaces, Supp 2; Grant 12000294."

Thompson, Michelle S; earth, atmospheric & planetary sciences, from Arctic Slope Technical Services, Inc, \$1,750, "Multi Sponsor – Voluntary Support."

Townsend, Clive H and Bean, Robert S; nuclear engineering, from Niowave Inc, \$39,560, "Lutetium-177 Production Campaign."

Tremblay, Marissa Marie; earth, atmospheric & planetary sciences, from National Science Foundation, \$211,294, "Collaborative Research: Using Hiatus Durations to Quantify the Tempo of Deccan Volcanism."

Tremblay, Marissa Marie; earth, atmospheric & planetary sciences, from American Association for the Advancement of Science, \$55,000, "Understanding How Isolated Defects Modulate Noble Gas Diffusion in Quartz."

Turco, Ronald F; agronomy, from Indiana Dairy Producers, \$500, "St Mary Watershed Voluntary Support (Cost Share for 20000224 / 209968)."

Turco, Ronald F; agronomy, from Natural Resources Conservation Service, \$183,000, "Cooperative Agreement Between Purdue University and the United States Department of Agriculture Natural Resources Conservation Service for MMP Nutrient Management Development Activities 2018-2019."

Vacca, Andrea; Agricultural & Biological Engineering Program, from Magna Powertrain of America Inc, \$9,936, "Test Activity on a High Pressure Gerotor Pump."

Wang, Wen-Hung; biological sciences, from Elanco Animal Health, \$5,145, "Elanco MDR1 Gene Deletion via CRISPR." (a Discovery Park award – Bindley Bioscience Center)

Weake, Vikki Marie; biochemistry, from PHS-NIH National Eye Institute, \$376,148, "Epigenetic Regulation of Gene Expression in the Aging Eye."

Weber, Zachary A; pharmacy practice, from Indiana University, \$50,752, "IU MOU."

Weibel, Justin A; mechanical engineering, from Saint-Gobain Corporation, \$30,000, "Cooling Technologies Research Center (CTRC), Saint Gobain 40002838."

Weibel, Justin A; mechanical engineering, from Murata Manufacturing Co. Ltd, \$30,000, "Cooling Technologies Research Center (CTRC), Murata 40002838."

Weibel, Justin A; mechanical engineering, from Toyota Research Institute of North America, \$30,000, "Pump-Assisted Capillary Loops."

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

Weiner, Andrew M; electrical & computer engineering, from Air Force Office of Scientific Research, \$200,370, "Novel Integrated Photonics Frequency Comb Phenomena."

Weiner, Andrew M; electrical & computer engineering, from Oak Ridge National Laboratory, \$120,592, "A Quantum Interconnect for Matter Qubits Based on Frequency Encoded Photonic Qubits."

Weiner, Andrew M; electrical & computer engineering, from Naval Research Laboratory, \$100,000, "Kerr Comb Arrays for Signal Processing and Sensing; Modification 1, Grant 13000741."

Whelton, Andrew J and Shannahan, Jonathan H; civil engineering, health sciences, from Environmental Protection Agency, \$15,000, "Public Health Workgroup on Developing Practices for Responding to Chemical Incidents Associated with Cured-in-Place-Pipe Construction Projects."

Widhalm, Joshua R; horticulture & landscape architecture, from University of California – Berkeley, \$100,000, "Gordon and Betty Moore Foundation Award #9331."

Wodicka, George R; Abebe, Ephrem and Kasting-Prentice, Monica L; biomedical engineering, pharmacy practice, public health, from Indiana University Purdue University at Indianapolis, \$203,351, "Institutional Career Development Core." (a Discovery Park award – Bindley Bioscience Center)

Wodicka, George R; Sors, Thomas G; Savaiano, Dennis A; Brightman, Andrew O; Bailey, Regan K; Cox, Abigail D; Foster, Kirk S; Fulk, Rebecca Jane; Gavin, Timothy P; Hass, Zachary J; Hu, Changdeng; Kuhn, Richard J; McCabe, George P; Mesecar, Andrew D; Moore, George E; Park, Kinam; Ratliff, Timothy L; Schoenlein, William E; Seidl, Amanda H and Turek, John J; biomedical engineering, Bindley Bioscience Center, nutrition science, comparative pathobiology, health & kinesiology, nursing, medicinal chemistry & molecular pharmacology, biological sciences, statistics, biochemistry, engineering technology, basic medical science, from Indiana University Purdue University at Indianapolis, \$898,802, "CTSI."

Xie, Yi; nuclear engineering, from Idaho National Laboratory, \$30,000, "Develop Nd and U Doped Poly-Crystalline YAG Crystal; Amendment 2, Grant 14000521."

Xu, Dongyan; computer science, from Sandia National Laboratories, \$30,000, "CERIAS Voluntary Support." (a Discovery Park award – Center for Education and Research in Information Assurance and Security)

Xu, Dongyan; computer science, from Lawrence Livermore National Lab, \$100,000, "CERIAS Voluntary Support." (a Discovery Park award – Center for Education and Research in Information Assurance and Security)

Xu, Dongyan; computer science, from Sequoia Holdings LLC, \$60,000, "CERIAS Voluntary Support." (a Discovery Park award – Center for Education and Research in Information Assurance and Security)

Xu, Jin-Rong; botany & plant pathology, from Agricultural Research Service, \$72,400, "Functional Analysis of Genes in the Wheat Pathogen *Zymoseptoria tritici*."

Yang, Danzhou; medicinal chemistry & molecular pharmacology, from Gibson Oncology, \$20,000, "Multi Sponsor -Voluntary Support."

Yeo, Yoon; industrial and physical pharmacy, from PHS-NIH National Cancer Institute, \$407,966, "Chemotherapy Delivery with Nanoparticles for Targeted Induction of Immunogenic Cell Death (Grant 11000776)."

Yih, Yuehwern; industrial engineering, from Agency for International Development, \$1,061,309, "Laser Buy-in: Tanzania."

Yih, Yuehwern; industrial engineering, from Agency for International Development, \$1,000,000, "Laser Buy-in: Bha."

Young to Zhou

Young, Bryan G; botany & plant pathology, from CHS Foundation, \$13,600, "Multi Sponsored Gift Account."

Young, Bryan G; botany & plant pathology, from Winfield Solutions LLC, \$14,000, "Multi Sponsored Gift Account."

Young, Bryan G; Johnson, William G and Widhalm, Joshua R; botany & plant pathology, horticulture & landscape architecture, from United Soybean Board, \$993,000, "Integrating Best Management Practices for Herbicide-Resistant Weeds and Herbicide Stewardship in Soybean Production (FY21)."

Yu, Wenbin; aeronautics & astronautics, from Georgia Tech, \$2,321, "VABS as a Tool for Real Blade Analysis, Design, and Certification; Amendment 6, Grant 13000528."

Yu, Wenbin; aeronautics & astronautics, from AnalySwift LLC, \$32,450, "T12.01-5412 – Theoretical and Experimental Investigations of Nonlinear Viscoelasticity and Time-Dependent Yielding of Thin-Ply Composites."

Zentner, Lynn K; electrical & computer engineering, from Pasadena City College, \$35,001, "Micro Nano Technology Education Center (MNT-EC)." (a Discovery Park award – Network for Computational Nanotechnology)

Zheng, Wei and Freeman, Jennifer L; health sciences, from National Institutes of Health, \$131,997, "Lead Exposure and Beta-Amyloid Transport by Brain Barriers (Grant 11000636)."

Zhou, Chenn Qian and Silaen, Armin K; Center for Innovation through Visualization and Simulation, from NLMK Indiana, \$34,890, "Evaluations of Proposed Reheat Furnace Improvements."

Zhou, Qi; physics & astronomy, from National Science Foundation, \$3,000, "Exploring Contacts in New Era: Spin-Orbit Coupling and Dimension Crossover." ■

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