Adeola to Bolin

Adeola, Olayiwola and Johnson, Timothy; animal sciences, from Genencor International, $56,899, "Investigating the Efficacy of a Multi-Enzyme Feed Additive on Performance of Weaned Piglets Fed a Wheat-Barley Based Diet."

Alexeenko, Alina; aeronautics & astronautics, from Millrock Technology Inc, $10,000, "Lyohub Consortium (Millrock Technology)."

Asencio, Raquel; organizational behavior and human resource management, from Army Research Office, $60,000, "10.2 Social and Cognitive Networks: Exploring Effective Coordination Structures and Functioning in Multiteam Systems (Grant 13000601, Modification 4)"

Beaulieu, Lionel J; Office of Engagement administration, from Indiana Economic Development Corporation, $153,227, "HH Small Business Development Center (SBDC) – Federal."

Beaulieu, Lionel J; Office of Engagement administration, from Indiana Economic Development Corporation, $49,182, "HH Small Business Development Center (SBDC) – State."

Beaulieu, Lionel J; Purdue Center for Regional Development, from Greater Lafayette Community Foundation, $5,000, "Wabash Heartland Innovation Network (WHIN) Grant for Hoosier Heartland Indiana Small Business Development Center."

Berry, Frederick C; engineering technology, from Lawrence Livermore National Lab, $7,500, "Proposal for Capstone Project Support to the Lawrence Livermore National Laboratory 2020."

Bhargava, Bharat and Aggarwal, Vaneet; computer science, industrial engineering, from University of Southern California, $298,190, "Generating Novelty in Open-World Multi-Agent Environments (GNOME); Amendment 2, Grant 13000841."

Bhave, Sunil A; electrical & computer engineering, from Semiconductor Research Corporation, $88,000, "Strain Assisted Magneto-Electric Write and Read Operations; Amendment 2, Grant 40002246."

Bhave, Sunil A; electrical & computer engineering, from Google Inc, $40,672, "2020 Faculty Research Award. (a Discovery Park award – Birck Nanotechnology Center)

Bhave, Sunil A and Weinstein, Dana; electrical & computer engineering, from Department of the Army, $99,000, "PMN-PT for PNT: Precision Micromachining of Novel Piezoelectric Transducers for Precise Navigation and Timing (Grant 13000689 Modification 3)" (a Discovery Park award – Birck Nanotechnology Center)

Bigelow, Cale A; horticulture & landscape architecture, from Aquatrols Corporation of America, $14,128, "Putting Greens Research."

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships administration, from Purdue Research Foundation, $31,119, "FY20-21 Purdue Research Foundation (PRF) Grants (60000029)."

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships administration, from Purdue Research Foundation, $31,119, "FY20-21 Purdue Research Foundation (PRF) Grants (60000029)."

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships administration, from Purdue Research Foundation, $31,119, "FY20-21 Purdue Research Foundation (PRF) Grants (60000029)."

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships administration, from Purdue Research Foundation, $31,119, "FY20-21 Purdue Research Foundation (PRF) Grants (60000029)."

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships administration, from Purdue Research Foundation, $41,600, "FY20-21 Purdue Research Foundation (PRF) Grants (60000029)."

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships administration, from Purdue Research Foundation, $31,119, "FY20-21 Purdue Research Foundation (PRF) Grants (60000029)."

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships administration, from Purdue Research Foundation, $31,119, "FY20-21 Purdue Research Foundation (PRF) Grants (60000029)."

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships administration, from Purdue Research Foundation, $31,119, "FY20-21 Purdue Research Foundation (PRF) Grants (60000029)."

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships administration, from Purdue Research Foundation, $41,600, "FY20-21 Purdue Research Foundation (PRF) Grants (60000029)."

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships administration, from Purdue Research Foundation, $31,119, "FY20-21 Purdue Research Foundation (PRF) Grants (60000029)."

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships administration, from Purdue Research Foundation, $31,119, "FY20-21 Purdue Research Foundation (PRF) Grants (60000029)."

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships administration, from Purdue Research Foundation, $31,119, "FY20-21 Purdue Research Foundation (PRF) Grants (60000029)."

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships administration, from Purdue Research Foundation, $31,119, "FY20-21 Purdue Research Foundation (PRF) Grants (60000029)."

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships administration, from Purdue Research Foundation, $31,119, "FY20-21 Purdue Research Foundation (PRF) Grants (60000029)."

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships administration, from Purdue Research Foundation, $8,000, "FY20-21 Purdue Research Foundation (PRF) Grants."
Bolin to Bolin

Bolin, Jeffrey T: Executive Vice President for Research & Partnerships administration, from Purdue Research Foundation, $31,119, "FY20-21 Purdue Research Foundation (PRF) Grants (60000029)."

Bolin, Jeffrey T: Executive Vice President for Research & Partnerships administration, from Purdue Research Foundation, $10,400, "FY20-21 Purdue Research Foundation (PRF) Grants."
Bolin to Dydak

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships administration, from Purdue Research Foundation, $31,119, "FY20-21 Purdue Research Foundation (PRF) Grants (60000029)."

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships administration, from Purdue Research Foundation, $10,400, "FY20-21 Purdue Research Foundation (PRF) Grants."

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships administration, from Purdue Research Foundation, $31,119, "FY20-21 Purdue Research Foundation (PRF) Grants (60000029)."

Boltasseva, Alexandra and Shalaev, Vladimir M; electrical & computer engineering, from Air Force Office of Scientific Research, $200,000, "Trans-Dimensional Photonics: from Evolution of Material Properties to Exploring Extreme Regimes of Light-Matter Interactions." (a Discovery Park award – Birck Nanotechnology Center)

Boudouris, Bryan W and Mei, Jianguo; chemical engineering, chemistry, from Naval Surface Warfare Center Crane Div, $60,000, "Solution-Processable Polymer Conductors with High Transparency and Low Sheet Resistance for Electromagnetic Interference (EMI) Protection."

Bowman, Aaron B; health sciences, from Albert Einstein College of Medicine, $287,525, "Mechanisms of Manganese Neurotoxicity."

Braun, James E; mechanical engineering, from Whirlpool Corporation, $25,000, "Center for High Performance Building Consortium (Whirlpool Corp)."

Buckmaster, Dennis; agricultural & biological engineering program, from Winfield Solutions LLC, $50,000, "Open Ag Technology and Systems Center (OATS) Consortium."

Buckmaster, Dennis; agricultural & biological engineering program, from Infosys Technologies Ltd, $50,000, "Open Ag Technology and Systems Center (OATS) Consortium."

Buckmaster, Dennis; agricultural & biological engineering program, from The Climate Corporation, $50,000, "Open Ag Technology and Systems Center (OATS) Consortium."

Bullock, Darcy M; civil engineering, from IN Department of Transportation, $449,100, "Joint Transportation Research Program (JTRP) Administration Budget FY 2021."

Burgess, Wilella Daniels; education administration, from University of Illinois at Chicago, $22,721, "Professional Development for K-12 Science Teachers in Linguistically Diverse Classrooms."

Caldwell, Barrett S; Johnson, Mary E and Pitts, Brandon J; industrial engineering, aviation & transportation technology, from Federal Aviation Administration, $147,478, "Partnership to Enhance General Aviation Safety, Accessiblity and Sustainability (PEGASAS): Augmented Weather Information Project – Project 33 (Grant 16100100)."

Caldwell, Barrett S and Whitaker, Dawn R; industrial engineering, from National Aeronautics and Space Administration, $760,000, "Indiana Space Grant Consortium Programs and Opportunities 2020-2024."

Cannon, Jason R and Rochet, Jean-Christophe; health sciences, medicinal chemistry & molecular pharmacology, from PHS-NIH National Institute of Environment Health Science, $335,532, "Mechanisms of PhIP-Induced Dopaminergic Neurotoxicity (Grant 11000509 Amendment #5)."


Cappelleri, David J and Zhang, Song; mechanical engineering, from National Science Foundation, $8,000, "RI: Medium: Light Responsive Polymer Magnetic Microrobots with Dual Mode Sensing for Biomedical and Advanced Manufacturing Applications."

Carlson, Erica; physics & astronomy, from National Science Foundation, $230,000, "Electronic Fractals in Strongly Correlated Quantum Materials."

Casteel, Shaun N; agronomy, from Fluid Fertilizer Foundation, $10,000, "Soybean Extension Research."

Casteel, Shaun N; agronomy, from Helena Agri-Enterprises, LLC, $9,000, "Soybean Extension Research."

Chan, Stanley H; electrical & computer engineering, from Army Research Office, $100,000, "Adversarial Robustness in Real Environments."

Chen, Weiqong W; aeronautics & astronautics, from Office of Naval Research, $80,000, "Visualization of Composite Damage by Direct Energy (Grant 13000570 Modification 5)."

Chen, Weiqong W and Meyer, Terrence R; aeronautics & astronautics, mechanical engineering, from Army Research Office, $62,500, "Damage and Temperature Around a Propagating Dynamic Crack (Grant 13000558 Modification 6)."

Chen, Yingjie; Jiang, Wen; Sors, Thomas G and Watson, William R; computer graphics technology, biological sciences, curriculum & instruction, from PHS-NIH National Eye Institute, $122,549, "Virtual Reality Augmented Hands-on Cryogenic Electron Microscopy (Cryo-EM) Training; Year 3; Grant 11000708."

Chopra, Gaurav; chemistry, from Indiana Clinical & Translational Science Institute, $40,756, "Identifying the Molecular Modulators of Microglial Phagocytosis of Amyloid Beta."

Couetil, Laurent L and Inverst, Kathleen M; veterinary clinical sciences, from Nortev Ltd, $53,151, "Efficacy and Safety of Nebulized Dexamethasone in Mild Asthmatic Horses."

DeBoer, Jennifer J; Nies, Loring F and Harbison, Diana; engineering education, civil engineering, Global Engineering Programs, from World Learning, $58,225, "Investing in the Liberated University of Anbar."

DeLaurentis, Daniel A; aeronautics & astronautics, from National Aeronautics and Space Administration, $150,000, "Extending Traffic Information Exchange Network (TIEN)."

Doudareva, Natalia; biochemistry, from National Institute of Food & Agriculture, $500,000, "Deciphering Regulatory Restrictions on Flux Towards Shikimate Pathway-Derived High Value Natural Products."

Douglas, Kerrie A; engineering education, from National Science Foundation, $124,239, "Collaborative Research: Rapid Response Research (RAPID): Approaches to Online Implementation and Social Support in Undergraduate Engineering Courses."

Dydk, Ulrike; health sciences, from Indiana University, $5,150, "Student Support for Emily Diller (Amendment 3 for Grant 40001919)."
Edwards to Hook

Edwards, Nancy E; nursing, from PHS-National Center for Health Services, $76,336, “Advanced Nursing Workforce Education.”

Edwards, Nancy E; Foli, Karen J; Ross, Karla Cheesman and McComb, Sara A; nursing, from PHS-National Center for Health Services, $679,296, “Advanced Nursing Workforce Education (Grant 11000617).”

Edwards, Nancy E; North Central Nursing Clinic administration, from Health Resources & Services Administration, $664,205, “HRSA Coronavirus Aid, Relief, and Economic Security (CARES) Award.”

Edwards, Nancy E; North Central Nursing Clinic administration, from Health Resources & Services Administration, $1,097,480, “Health Center Cluster (Grant 11000493).”

Edwards, Nancy E; nursing, from Health Resources & Services Administration, $58,373, “FY 2020 Coronavirus Supplemental Funding for Health Centers.”

Ejeta, Gebisa and Rich, Patrick J; agronomy, from Kansas State University, $97,984, “Genetic Enhancement of Sorghum to Promote Commercial Seed Supply and Grain Market Development (Phase II).”


Ersoy, Okan K; electrical & computer engineering, from Henry Miller Opticians, $186,896, “Computational Methods for Diffractive Imaging and Financial Forecasting.”

Freeman, Jennifer L and Wasel, Ola; health sciences, from University of Cincinnati – Education and Research Center, $1,500, “Neurotoxicity of Polyfluoroalkyl Substance (PFAS) Mixtures in Firefighting Materials.”

Frueh, Carolin E; aeronautics & astronautics, from Air Force Office of Scientific Research, $88,333, “IRONCASTLE – Interpretation and Recognition of Objects Using Novel Coupled Attitude and Shape Techniques for Lightcurve Evaluation (Grant 13000804, Modification 1).”

Garcia Bravo, Jose M; Newell, Brittany A and Tallman, Tyler N; engineering technology, aeronautics & astronautics, from Naval Surface Warfare Center Indian HD Div, $120,000, “Embedded Sensors and Actuators for Structural Health Monitoring Using Enhanced Materials in Additive Manufacturing (Grant 13000764, Modification 1).”

Garner, Allen L; nuclear engineering, from Boise State University, $100,000, “Crossed-Field Device Physics in Perturbed Systems; Amendment 1, Grant 13000763.”

Gelvin, Stanton B; Lee, Lan-Ying and Ma, Jianxin; biological sciences, agronomy, from National Science Foundation, $267,449, “Tools, Resources and Technology – Plant Genome Research (TRTech-PGR): Ensifer-Mediated Transformation as an Alternative to Agrobacterium-Mediated Transformation of Model Plants and Crops.”

Ginzelt, Matthew D; forestry & natural resources, from Indiana Department of Natural Resources, $4,000, “Thousand Cankers Disease of Black Walnut in the US.”

Gomez Diaz, Hector; mechanical engineering, from National Science Foundation, $267,502, “Collective Migration of Loosely Connected Cell Clusters.”

Gomez Diaz, Hector; mechanical engineering, from National Science Foundation, $299,994, “Interaction of Multiphase Fluids and Solids at the Microscale.”

Govindaraju, Rao S; civil engineering, from American Society of Civil Engineers, $6,125, “Support for the ASCE Journal of Hydrologic Engineering.”

Habib, Ayman F and Bullock, Darcy M; civil engineering, from Indiana Criminal Justice Institute, $179,000, “Unmanned Aircraft Systems (UAS)-Based Data Processing Center for Crash Scene Documentation.”

Hamer, Lawrence Olin; business administration, from Indiana Economic Development Corporation, $238,387, “Northwest Indiana Small Business Development Center 2020 (Federal Funds & PNW Match).”

Hamer, Lawrence Olin; business administration, from Indiana Economic Development Corporation, $58,360, “Northwest Indiana Small Business Development Center 2020 (State Funds).”

Handwerker, Carol A; materials engineering, from Alpha Assembly Solutions, $98,129, “Voluntary Support for Low Temperature Assembly Research.”

Handwerker, Carol A; materials engineering, from Intel Corporation, $100,000, “Low Temperature Solder System – Development and Fundamental Understanding (40002150).”

Harpur, Brock Alexander; entomology, from Project Apsis M., $74,076, “Using Genomics to Predict Drone Quality: Why Are There So Many ‘Dud’ Male Honey Bees?”

Harris, Jason T and Nie, Linda H; health & human sciences administration, health sciences, from Nitto and Company, $7,723, “Nitto X-Ray Shield Project.”

Hartman, Nathan W; computer graphics technology, from Project Process LLC, $10,000, “2020 INTAP Project – Hand Washing Station.”

Heister, Stephen D; aeronautics & astronautics, from Center for Advancement of Science in Space, $20,000, “Multi Sponsor – Voluntary Support.”


Hillberry, Russell H; agricultural economics, from National Institute of Food & Agriculture, $243,078, “Trade Costs and Mark-Ups in Maritime Shipping.”

Holford, Kenneth C; engineering & science, from U.S. Forest Service, $20,000, “Support for the Northwest Indiana Urban Waters Ambassador Position.”

Hountz to Lin

Hountz, Randall A; Purdue Health Advisors, from Altarum Institute, $273,282, "Center for Medicare (CMS) Medicare Access and CHIP Reauthorization Act (MACRA) Support for Small Practices; Amendment 3, Grant 11000828." (a Discovery Park award – Regenstrief Center for Healthcare Engineering)

Hu, Changdeng; medicinal chemistry & molecular pharmacology, from PHS-NIH National Cancer Institute, $508,108, "Role and Targeting of Protein Arginine Methyltransferase 5 (PRMT5) in Prostate Cancer (Grant 11000609, Amendment 4)."

Huang, Libai and Li, Christina W; chemistry, from National Science Foundation, $541,521, "Enhance Exciton Transport in Perovskite Quantum Dot Solids through Coherent Interactions."

Irmanoglu, Ayhan and Prakash, Arun; civil engineering, from Battelle Energy Alliance LLC, $17,481, "Specialized Technical Support to INL for Seismic Isolation Strategies and Soil-Structure Interaction Analysis."

Jacob, Zubin and Li, Tongcang; electrical & computer engineering, from Defense Advanced Projects Research Agency, $199,850, "Engineering Giant Momentum Asymmetry of the Quantum Vacuum."

Jacobs, Douglas F; forestry & natural resources, from Jawmin LLC, $12,500, "Hardwood Tree Improvement & Regeneration Center/Center for Advanced Forestry Systems (HTIRC/CAFS) Voluntary Support."

Jacobs, Douglas F; forestry & natural resources, from Hawaii Sandalwood, LLC, $12,500, "Hardwood Tree Improvement & Regeneration Center/Center for Advanced Forestry Systems (HTIRC/CAFS) Voluntary Support."


Johnson, Brandon Charles; earth, atmospheric & planetary sciences, from National Aeronautics and Space Administration, $52,466, "Dynamics of the Early Solar System and Implications for the Possible Impact Origin of Chondrules (Grant 12000329, Modification 2)."

Johnson, Brandon Charles; earth, atmospheric & planetary sciences, from National Aeronautics and Space Administration, $52,467, "Dynamics of the Early Solar System and Implications for the Possible Impact Origin of Chondrules; Supplement 1, Grant 12000329."

Johnson, William G and Young, Bryan G; botany & plant pathology, from BASF Corporation, $7500, "BASF Herbicide Options in XtendFlex Soybeans."

Jordan, Mark A; biology, from Indiana Academy of Science, $2,688, "Spatial Analysis and Habitat Use of Snapping Turtles in an Urban Wetland."

Jung, Changhee; computer science, from Virginia Polytechnic Institute & State University, $293,922, "Cyber-Physical Systems (CPS): Medium: Computation-Aware Autonomy for Timely and Resilient Multi-Agent Systems."

Kak, Avinash C; electrical & computer engineering, from Applied Research Associates, Inc, $30,000, "Creation of Operationally Realistic 3-D Environment (CORE3D); Modification 8, Grant 13000603."

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

Kasting, Monica L; public health, from Indiana University, $49,065, "Hepatitis C Virus Survey of Providers' Attitudes, Recommendation, and Knowledge (HCV SPARK)."

Kenttamaa, Hilikka I; chemistry, from Neste Oyj, $45,000, "Gate 1 Approval: Development of the Methods for the Analysis of Chlorine-Containing Compounds in Waste Cooking Fats and Residues (40003012)."

Kim, Yuan H; animal sciences, from National Institute of Food & Agriculture, $470,000, "Unlocking Value from Beef Exudate: Metabolomics Profiling of Beef Exudate to Delineate Muscle-Specific Oxidative Mechanisms."

Knopik, Valerie S; human development & family studies, from Emory University, $32,841, "Integrative Prioritization of Alcohol and Drug-Addiction Related Genetic Loci; Amendment 2; Grant 1100794."

Kong, Nan; Ott, Carol A and Yu, Denny; biomedical engineering, pharmaceutical practice, industrial engineering, from Indiana Clinical & Translational Science Institute, $2,400, "Smartphone-Based Socio-Behavioral Monitoring Tool Development for Early Detection and Prevention of Major Depression."

Kuang, Shihuan; Elizey, Bennett D and Konieczny, Stephen F; animal sciences, comparative pathology, biological sciences, from PHS-NIH National Cancer Institute, $354,563, "Notch Signaling in Liposarcoma."

Kulkarni, Milind; Blocki, Jeremiah M; Delaware, Benjamin J; Garman, Christina L; Kate, Aniket Pandlik; Maji, Hemanta K; Rompf, Tiark and Samanta, Roopsha; electrical & computer engineering, computer science, from Intelligence Advancement Research Projects Activity, $312,788, "HACCLE: High-Assurance Compositional Cryptography: Languages and Environments (Grant 13000767, Modification 4)."

Labi, Samuel; Bullock, Darcy M; Miralinaghi, Seyedmohammad; Chen, Sikai and Sinha, Kumares C; civil engineering, from University of Michigan, $619,270, "Development of AI-Based and Control-Based Systems for Safe and Efficient Operations of Connected and Autonomous Vehicles."

Lee, Kyoungsoo; physics & astronomy, from Korea Institute for Advanced Study, $360,000, "A Purdue-KIAS Narrow-Band Dark Energy Camera (DECam) Survey."

Lemenager, Ronald P; animal sciences, from Indiana Beef Cattle Association, $4,000, "Bovine Reproduction."

Li, Tongcang and Robicheaux, Francis J; electrical & computer engineering, physics & astronomy, from Office of Naval Research, $50,000, "Investigating Surface Interactions with Levitated Optomechanics at the Quantum Limit (Grant 13000647, Modification 3)."

Li, Tongcang; electrical & computer engineering, from National Science Foundation, $94,371, "Faculty Early Career Development (CAREER): Quantum Spin-Optomechanics of Optically Levitated Nanodiamonds (Grant 10000990, Amendment #4)."

Liceaga, Andrea M; food science, from Mint Industry Research Council, $5,000, "Multi Sponsored Gift- Sensory."

Lin, Guang; mechanical engineering, from Brookhaven National Laboratory, $100,000, "A Deep Learning-Based Online Platform for Critical Anomaly Detection and Emergency Control to Enhance Grid Reliability and Resiliency."
Lindemann to Pijanowski

**Lindemann, Stephen R** and **Hamaker, Bruce R**; food science, from Army Research Office, $50,000, “Complex Substrates and Microbial Interactions: Does Substrate Chemical Structure Dictate Microbial Diversity and Function? (Grant 13000655, Modification 3).”

**Linnes, Jacqueline C**; biomedical engineering, from National Science Foundation, $50,000, “Rapid Response Research (RAPID): Collaborative Research: Enabling the Development of COVID-19 Vaccines, Therapeutics and Diagnostics through Innovations in Measurement Science.”


**Long, Elizabeth Yim**; **Beckerman, Janna L**; **Bolt, Marguerite; Meyers, Stephen Lawrence** and **Torres Bravo, Ariana P**; entomology, botany & plant pathology, agronomy, horticulture & landscape architecture, agricultural economics, from Michigan State University, $18,908, “North Central Integrated Pest Management Center (NCIPMC): A Regional Approach to Pest Management Implementation FY18-FY22.”

**Longuski, James M**; aeronautics & astronautics, from Lockheed Martin Corp., $45,000, “Project Artemis Mission Design.”

**Low, Philip S**; chemistry, from Umoja Biopharma, $2,000,000, “Universal CAR T Cell Therapy.”

**Low, Philip S**; chemistry, from Trask Trust Fund, $83,333, “Trask Support.”


**Lu, Yung-Hsiang**; **Barbarash, David Michael**; **Ebert, David S** and **Zakharov, Wei**; electrical & computer engineering, horticulture & landscape architecture, libraries administration, from National Science Foundation, $49,999, “Collaborative: Rapid Response Research (RAPID): Leveraging New Data Sources to Analyze the Risk of COVID-19 in Crowded Locations.”

**Malis, Dana** and **Manfra, Michael James**; physics & astronomy, electrical & computer engineering, from National Science Foundation, $141,564, “Infrared Quantum Materials Based on Scandum-Containing III-Nitrides.”

**Malshe, Ajay P** and **Bapat, Salil**; mechanical engineering, from National Science Foundation, $151,093, “Rapid Response Research (RAPID): Ionic Modulation of COVID through Ceramic Surfaces for Deactivation.”

**Mathew, Alan G**; animal sciences, from Indiana State Fair Board, $5,000, “Research on Meat Quality.”

**Mattes, Richard D**; public health, from Gelesis SRL, $192,192, “Randomized, Controlled, 2 X 2, Cross-Over Metabolic Trial.”

**Mattes, Richard D**; nutrition science, from ILSI North America, $8,000, “Sweet Taste Measurement: Narrative Review for Nutrition Practitioners.”

**McKinley, Steven K** and **Sands, Danielle L**; County Extension Services – 4H, from National 4-H Council, $5,000, “Toyota USA Foundation 4-H National Youth Science Day – Indiana Response.”

**Mengiste, Tesfaye D**; botany & plant pathology, from Kansas State University, $236,440, “Phase II-Genetic Improvement of Sorghum for Resistance to Fungal Pathogens.”

**Meyer, Terrence R**; mechanical engineering, from Spectral Energies LLC, $40,000, “Advanced Laser Based Diagnostic Techniques for Combustion and Propulsion Research (Grant 13000484).”

**Miles, Richard D**; WBAA administration, from Corporation for Public Broadcasting, $75,000, “CPB – FY20 Coronavirus Aid, Relief and Economic Security (CARES) Stabilization Grant.”

**Miller, Jeffrey T**; chemical engineering, from Argonne National Laboratory, $25,000, “Catalyst Characterization to Support Catalyst Development for Converting Biomass, Amendment 8; (Grant 14000242).”

**Mohammadi, Mohsen**; agronomy, from Salk Institute for Biological Studies, $479,652, “Re-Designing Climate Change Resilient Wheat for Carbon Sequestration.”

**Mudawar, Issam**; mechanical engineering, from National Aeronautics and Space Administration, $28,894, “Flow Boiling and Condensation in Microgravity–NASA Space Technology Research Fellowships (NSTRF) Fellowship for Lucas Oneill; Supplement 7 for Grant #12000151.”


**Nie, Linda H** and **Dydkal, Ulrike**; health sciences, from University of California – San Diego, $68,039, “Sodium Regulation in Individuals on Known Dietary Sodium Intake.”

**Nielsen, Robert L**; agronomy, from Plant Response Inc, $15,000, “Corn & Soybean Production.”

**Noinaj, Nicholas**; biological sciences, from PHS-NIH National Institute of General Medical Science, $300,852, “Unraveling the Mechanism by Which the β-barrel Assembly Machinery (BAM) Complex Mediates Outer Membrane Protein (OMP) Biogenesis (Grant 11000888, Amendment #1).”

**Owada, Takashi**; statistics, from National Science Foundation, $58,337, “Random Alegebraic Topology (Grant 10001324, Amendment #2).”

**Park, Shin Ae**; veterinary clinical sciences, from PHS-NIH National Eye Institute, $164,602, “Biomechanical and Genetic Effects on Glaucoma Progression.”


**Patton, Aaron J** and **Bigelow, Cale A**; horticulture & landscape architecture, from Midwest Regional Turf Foundation, $30,000, “Midwest Regional Turf Foundation.”

**Patton, Aaron J**; horticulture & landscape architecture, from Pioneer Hi-Bred International, Inc., $6,000, “Rinskor + Dimension Enhanced Crabgrass Control.”

**Patton, Aaron J**; horticulture & landscape architecture, from Pioneer Hi-Bred International, Inc., $5,000, “The Efficacy of Rinskor Premix For Crabgrass.”

**Peng, Chunyi**; computer science, from National Science Foundation, $100,000, “Rapid Response Research (RAPID): Assessing and Exploiting Operational Mobile Networks in Face of Public Health Crisis.”

Pinal to Sintim

Pinal, Rodolfo; industrial & physical pharmacy, from Astrazeneca Product Development, $45,000, "Center for Pharmaceutical Processing Research Consortium (Astrazeneca)."

Pipes, R Byron; aeronautics & astronautics, from Woodward-Hexcel, $75,000, "Hexcel – Digital Twin."

Pitts, Brandon J; industrial engineering, from Link Foundation, $30,000, "Link Foundation Fellowship in Modeling, Simulation, and Training – Gaojian Huang."

Pol, Vilas G; chemical engineering, from Valgotech LLC, $90,000, "Multifunctional Trilayer Membrane for a Stable, Scalable and Economical High Energy Capacity Li-S Battery with Long Cycle Life."


Prokopy, Linda S; forestry & natural resources, from the Nature Conservancy, $15,000, "Understanding Persistence of Cover Crop Use: Upper White River Watershed."

Pushkar, Yulia N; physics & astronomy, from Higher Education Commission Pakistan, $2,960, "Bench Fees – Effat Sitara."

Qu, Ming; civil engineering, from Oak Ridge National Laboratory, $75,000, "The Geothermal Heat Pump and Thermal Storage (Grant 14000455)."

Rahimi, Rahim; materials engineering, from Ford Motor Company, $100,000, "Feasibility Study for an Advanced Additive Manufacturing Equipment for Use on Autonomous Robots: (a Discovery Park award – Birck Nanotechnology Center)

Rainey, Katherine Martin; agronomy, from Agricultural Research Service, $6,050, "Acquisition of Goods and Services."

Raman, Arvind; Sinfield, Joseph V and Yih, Yuehwern; education administration, civil engineering, industrial engineering, from Agency for International Development, $4,244,994, "Laser Partners for University-LED Solutions Engine (PULSE)."

Rhoads, Jeffrey Frederick; Bolton, J Stuart; Davies, 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 8)."

Ribeiro, Fabio H; chemical engineering, from Total Research & Technology, $60,000, " Center for Innovative and Strategic Transformation of Alkane Resources (CISTAR) Industrial Consortium, 40001938."

Rochet, Jean-Christophe and Cannon, Jason R; medicinal chemistry & molecular pharmacology, health sciences, from PHS-NIH National Institute Neurological Disorders and Stroke, $146,481, "Role of Endosulfine-Alpha Expression and Phosphorylation in Parkinson’s Disease."

Rokhinson, Leonid P; physics & astronomy, from National Science Foundation, $149,845, "Topological Superconductivity and High Order Non-Abelian Excitations."

Rompf, Tiark; computer science, from Sambanova Systems LLC, $25,000, "Multi Sponsor – Purdue Center for Programming Principles and Software Systems (PurPL) Center."


San Martin-Gonzalez, Maria Fernanda; food science, from Nephew Pharmacy Pc, LLC, $150, "Multi-Sponsor Gift Funds."

Sanson, Jeffrey J; agricultural economics, from Indiana Secretary of State Securities Div, $68,732, "Smart Indiana Financial Literacy Project."

Saunders, Michael R; Swihart, Robert K; Aime, Mary Catherine and Holland, Jeffrey D; forestry & natural resources, botany & plant pathology, entomology, from Indiana Department of Natural Resources, $629,790, "Hardwood Ecosystem Experiment (2020-2022)."

Scalo, Carlo; mechanical engineering, from Army Research Office, $60,000, "ARO-YIP: Coherent-Vorticity-Preserving (CvP) Large-Eddy Simulations (LES) of Very-High-Reynolds-Number Vortex Dynamics (Grant 13006616, Modification 5)."

Scharf, Michael E; entomology, from Virginia Technology, $181,016, "Development of an Assessment-Based Pest Management (APM) Protocol(s) for German Cockroach Elimination and Bed Bug Heat Treatment in US Department of Housing and Urban Development (HUD) Housing."

Scott, David E; Indiana State Chemist, from Environmental Protection Agency, $470,827, "FY 2020 Pesticide Cooperative Agreement."

Scott-Moncrieff, Joanna C R; veterinary clinical sciences, from Compassion First Pet Hospitals, $20,601, "SAS Resident."

Scutari, Gesualdo; industrial engineering, from Army Research Office, $80,000, "Distributed Robust Nonconvex Optimization Over Time-Varying Networks: Tradeoffs and Guarantees (Grant 13000661, Modification 3)."

Seleem, Mohamed; comparative pathobiology, from PHS-NIH National Institute of Allergy and Infectious Diseases, $447,489, "Repurposing Auranofin and Ebselen for Treatment of Multidrug Resistant Pathogens (Grant 1100650, Amendment 4)."

Sepulveda, Maria Soledad; Hoverman, Jason T and Lee, Linda S; forestry & natural resources, agronomy, from Department of the Army, $200,000, "Development of Amphibian Poly- and Perfluoroalkyl Substances Toxicity Reference Values for Use in Ecological Risk Assessment at Aqueous Film Forming Foam Sites (Grant 1300468, Modification 9)."

Sheehan, Amy Heck; pharmaceutical practice, from Takeda Pharmaceutical International Inc US Region, $162,714, "Purdue/Takeda Pharmaceuticals Medical Affairs Fellowship."

Sheehan, Amy Heck; pharmaceutical practice, from Takeda Pharmaceutical International Inc US Region, $162,714, "Purdue/Takeda Pharmaceuticals Global Regulatory Affairs Fellowship -2."

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

Simpson, Garth J; chemistry, from Merck & Company Inc., $55,000, "Micro-Retarder Array Application in Aid of Increasing the Throughput of Sonnic Imaging."

Sintim, Herman O and Aryal, Uma K; chemistry, comparative pharmacology, from National Science Foundation, $444,000, "Signaling Axes Modulated by Cyclic Dinucleotides."
Son to Yih

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

Straw, Mark L; animal sciences, from Indiana State Department of Health, $1,036, "Developing a Rapid Response Research (RAPID) Response Team (RRT)."

Strimel, Greg J; technology, leadership & innovation, from Region 4 Workforce Development Board, $153,576, "Advancing the Next Generation for Manufacturing Competitiveness: Establishing the Regional Talent Pipeline Ecosystem (Grant 40002762 – Inc Yr 2 Funding)."

Subbarayan-Shastri, Ganesh; mechanical engineering, from Semiconductor Research Corporation, $61,111, "Nonlinear Multiscale Modeling for Back End of Line (BEOL) Structures; Amendment 3 for Grant #40002579."

Tan, Hong Z; electrical & computer engineering, from Google Inc, $40,672, "Google."

Telenko, Darcy E P; botany & plant pathology, from BASF Corporation, $11,040, "BASF Sponsored Evaluation of Seed Treatment for Nematodes in Corn."

Tesmer, John; biological sciences, from PHS-NIH National Cancer Institute, $657,332, "Regulation of the Metastasis Promoting Chemokine Receptor ACKR3 by GPCR Kinases, Gbg and Arrestins."

Thompson, David H; chemistry, from Cornell University, $111,940, "Modulation of Lipid Bisretinoids Clearance with Beta-Cyclodextrins; Amendment 4, Grant 11000697."

Trice, Rodney W and Youngblood, Jeffrey P; materials engineering, from Army Research Office, $44,500, "Forming Transparent Ceramics via Alignment of Alpha-Al2O3 Platelets: a Fundamental Investigation and Forming Study (Grant 13000550, Modification 7)."

Trice, Rodney W and Youngblood, Jeffrey P; materials engineering, from Army Research Office, $7,500, "Phase 2: Using Additive Manufacturing to Align Al2O3 Platelets for Transparency."

Trice, Rodney W and Youngblood, Jeffrey P; materials engineering, from Army Research Office, $7,500, "Additive Manufacturing of Transparent Alumina Using Sheet Flow through a Capillary."

Vacca, Andrea; agricultural & biological engineering program, from CNH – Hydraulic Competency Center, $109,511, "A Study of the Sources of Energy Loss in the Hydraulic Circuit of Agricultural Tractors and Formulation of Solutions for Improved Efficiency."

Varma, Amit H and Seo, Jungil; civil engineering, from Charles Pankow Foundation, $85,500, "Seismic and Wind Behavior and Design of Coupled Concrete-Filled Composite Plate Shear Walls (CF-CPSW) Core Walls for Steel Buildings."

Wang, Changyou; mathematics, from National Science Foundation, $80,000, "Mathematical Analysis of Nematic Liquid Crystals and L-Infinity Variational Problems (Grant 1000134, Amendment #2)."

Wang, Haiyan; materials engineering, from Office of Naval Research, $270,000, "2D Layered Multiferroic Oxide Systems with Tunable Electromagnetic Properties."

Webb, Kevin J; electrical & computer engineering, from Air Force Office of Scientific Research, $110,096, "Nanostructured Material for Optomechanics (Grant 13000784, Modification 2)."

Weibel, Justin A; mechanical engineering, from IBM, $30,000, "Cooling Technologies Research Center (CTRC), 40002838 IBM $30,000."

Weibel, Justin A; mechanical engineering, from Multi-Sponsored Industrials, $7,500, "Cooling Technologies Research Center (CTRC), Increase 40001184 – Laird."

Weibel, Justin A; mechanical engineering, from Multi-Sponsored Industrials, $30,000, "Cooling Technologies Research Center (CTRC), 40002838."

Weiner, Andrew M; electrical & computer engineering, from Oak Ridge National Laboratory, $5,158, "A Quantum Interconnect for Matter Qubits Based on Frequency Encoded Photonic Qubits."

Wendt, Michael K; Lim, Seung-Oe and Zhang, Zhong-Yin; medicinal chemistry & molecular pharmacology, from Metavivor Research and Support Inc, $100,000, "Enhancing Anti-Metastatic Immunity through Targeted Inhibition of SHP2 Phosphatase."

Widhalm, Joshua R; horticulture & landscape architecture, from EnP Investments, $1,500, "EnP Investments."

Wilcox, Michael D; Country Extension Services, from Blackford County, $14,922, "Assessing Housing Conditions and Needs in Blackford County."

Williams, Samantha M; field extension, from Pulaski Alliance for Community Education, $6,000, "2020 Peace Grant."

Wisecaver, Jennifer H; biochemistry, from Johns Hopkins University Applied Physics, $79,781, "Development of Advanced Plant Technologies for the Detection of Environmental Threats (Grant #13000710, Modification 4)."

Yazawa, Kazuaki; electrical & computer engineering, from Raytheon, $100,000, "Integrated Thermal Management of Aerospace Vehicles Consortium Membership." (a Discovery Park award – Birck Nanotechnology Center)

Yazawa, Kazuaki; mechanical engineering, from Raytheon, $100,000, "Integrated Thermal Management of Aerospace Vehicles Consortium Membership (Raytheon Company)." (a Discovery Park award – Birck Nanotechnology Center)

Ye, Peide; electrical & computer engineering, from Air Force Office of Scientific Research, $65,000, "Performance Enhancement of Robust Gan Mosfets by Ferroelectric Dielectric and Negative Capacitance Effect (PERFECT)." (a Discovery Park award – Birck Nanotechnology Center)

Ye, Peide; electrical & computer engineering, from Army Research Office, $30,000, "Ballistic Phosphorene Transistor (Grant 13000410 Modification 10)." (a Discovery Park award – Birck Nanotechnology Center)

Yeung, Sai Kee; electrical & computer engineering, from Army Research Office, $65,000, "Integrated Thermal Management of Aerospace Vehicles Consortium Membership (Raytheon Company)." (a Discovery Park award – Birck Nanotechnology Center)

Yih, Yuehwern; industrial engineering, from Agency for International Development, $300,000, "Laser Buy-In Multi-Country Study on Inclusive Education (MCSIE) for Learners with Disabilities in Cambodia, Malawi, and Nepal."
Yu to Zi

Yu, Wenbin; aeronautics & astronautics, from Coretech Systems, Inc, $50,000, "Composites Design and Manufacturing HUB (cdmHUB) (Consortium)."

Zhao, Kejie; mechanical engineering, from National Science Foundation, $65,000, "Bridging Mechanics and Electrochemistry: Theories and Experiments on Battery Materials."

Zhou, Chenn Qian; mechanical & civil engineering, from EVRAZ North America, $50,000, "Steel Manufacturing Visualization and Simulation Consortium (SMVSC) Membership."

Zhou, Chenn Qian and Moreland, John R; Center for Innovation through Visualization and Simulation, from Florida Keys Community College, $104,879, "Developing Reliable Education Avenues to Manifest (DREAM) Science, Technology, Engineering & Mathematics (STEM) Careers."

Zhou, Chenn Qian; Lee, Seokcheon and Moreland, John R; Center for Innovation through Visualization and Simulation, from Naval Sea Systems Command Naval Surface Warfare Center (NAVSEA/NSWC) Crane, $69,911, "Visualization of Repair Operations Management for Networked Systems Resilience; Modification 1, Grant 13000757."

Zhu, Fengqing: electrical & computer engineering, from East Metropolitan Health Service, $30,700, "Training Western Australian (WA) Obesity Management Clinical and Allied Health Professional Workforce."

Ziviani, Davide and Groll, Eckhard A; mechanical engineering, from Tri-State Generation & Transmission, $93,629, "Development and Optimization of a Packaged R-290 Cold-Climate Heat Pump."

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Notice Regarding Sponsored Program Awards

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.