
Aime, Mary Catherine; botany & plant pathology, from International Association of Identification, $1,000, "Lakatos – International Association for Identification."

Aime, Mary Catherine; botany & plant pathology, from Keith Smith, $100, "Aime Voluntary Support."

Ajuwon, Kolapo; animal sciences, from Biomatrix Inc, $25,000, "Nutritional Physiology Program."

Ajuwon, Kolapo; animal sciences, from Ross Graduate Fellowship-Assistantship, $31,959, "Li, Enkai."


Alexeenko, Alina; Peroulis, Dimitrios and Topp, Elizabeth; aeronautics & astronautics, electrical & computer engineering, industrial & physical pharmacy, from National Science Foundation, $750,000, "Partnership for Innovation in Lyophilization."


Allebach, Jan P; electrical & computer engineering, from Xerox Corp, $60,000, "Qiulin Chen Intership – Applications of Computer Vision and Machine Learing to Image Quality."

Allert, Beate I; language & culture, from Purdue University F N Andrews Fellowship, $25,192, "Souffrant, Myriam."

Armstrong, Shalamar D and Williams, Mark R; agronomy, agricultural & biological engineering program, from Agricultural Research Service, $23,100, "Coupling Temporally Explicit Geospatial Agronomic and Environmental Information."

Bagchi, Saurabh; electrical & computer engineering, from Adobe Systems Incorporated, $10,000, "Adobe."

Basaran, Osman A; chemical engineering, from Phillips 66, $25,000, "Purdue Process Safety and Assurance Center(P2sac)."

Beheler, Brian D and Saunders, Michael R; forestry & natural resources, from Indiana Department of Natural Resources, $28,000, "Indiana Creek Stream Stabilization."

Bertino, Elisa; computer science, from IBM, $60,000, “2018-2019 IBM PhD Fellowship Award Urala Liyanage Dona Gunasinghe, Hasini.”

Bharadwaj, Hari M; speech, language & hearing sciences, from National Science Foundation, $125,000, "Neurodatarr. Collaborative Research: Testing the Relationship Between Musical Training and Enhanced Neural Coding and Perception in Noise."

Bhave, Sunil A; electrical & computer engineering, from National Science Foundation, $1,000,000, "Raise-Taqs: Multifunctional Hybrid Quantum Systems for Spin-Based Quantum Control and Metrology." (a Discovery Park award – Birck Nanotechnology Center)

Bhave, Sunil A; electrical & computer engineering, from Defense Advanced Research Projects Agency, $250,000, "PMN-PT for PNT: Precision Micromachining of Novel Piezoelectric Transducers for Precise Navigation and Timing." (a Discovery Park award – Birck Nanotechnology Center)

Bigelow, Cale A; horticulture & landscape architecture, from Olmix Na, Inc, $4,250, "Putting Greens Research."

Bingham, Clifton W and Li, Ninghui; computer science, from Bureau of Census, $101,754, "Formal Privacy for Multi-Stage Probability Samples."

Blocki, Jeremiah M; computer science, from Rolls-Royce, Inc., $200,000, "Ben Harsha Fellowship."

Bowman, Charles A; electrical & computer engineering, from Northrop Grumman Corporation, $5,000, "Model Based Iterative Reconstruction Methods for Computed Tomography (CT); Amendment 6, Grant 13000527."

Boutin, Mireille; Douglas, Kerrie A and Magana Deleon, Alejandra J; electrical & computer engineering, engineering education, computer information technology, from National Science Foundation, $350,000, "Research: a Mixed-Methods Approach to Characterizing Engineering Students Computational Habits of Mind."

Bowers, Laura W; nutrition science, from Obesity Society, $7,500, "Multi Sponsor."

Bowman, Aaron B; health sciences, from Albert Einstein College of Medicine, $83,415, "Mechanisms of Manganese Neurotoxicity."

Bowman, Mark D and Prakash, Arun; civil engineering, from Indiana Department of Transportation, $109,346, "Legal and Permit Loads Evaluation for Indiana Bridges."
Braun to French

Braun, James E; mechanical engineering, from Guangdong Meizhi Compressor Co Ltd, $50,000, “Chpb Consortium – Guangdong.”

Briggs, Scott D; Dilkes, Brian and Hall, Mark C; biochemistry, from PHS-NIH National Institute of Allergy and Infectious Diseases, $410,246, “Set Domain Epigenetic Factors Govern Antifungal Drug Efficacy and Fungal Pathogenesis.”

Bullock, Darcy M; civil engineering, from Indiana Department of Transportation, $20,000, “Joint Transportation Research Program (JTRP) 2018 Peer Exchange Administrative Budget Increase.”

Burgess, Wilella Daniels and Parker, Loran Carleton; education administration, from University of Louisville, $16,080, “University of Louisville Personalized Learning with Adaptive Courseware Evaluation.”


Caffee, Marc W; physics & astronomy, from U.S. Geological Survey, $9,810, “10Be and 26Al from Geologic Samples.”

Caffee, Marc W; physics & astronomy, from U.S. Geological Survey, $49,175, “Cosmogenic Radionuclide Laboratory Analyses.”

Calve, Sarah and Kinzer-Ursem, Tamara L; biomedical engineering, from PHS-NIH National Institute of Arthritis and Musculoskeletal and Skin Diseases, $368,221, “Biomechanical Influence of ECM Remodeling on the Developing Enthesis.”

Campbell, Noll L; pharmaceutical practice, from Indiana University, $20,375, “Geriatric Workforce Enhancement Program.”

Connor, Robert J; Bonachera Martin, Francisco Javier and Bradt, Thomas G; civil engineering, from HDR, Inc, $48,596, “Field Testing and Short-Term Monitoring of GCRTA Bridge No. RTA -Nsfront-130.”

Cook, Robert Graham; Thompson, David H; Barker, Eric L; Grama, Ananth Y and Nagy, Zoltan; chemistry, pharmacy administration, computer science, chemical engineering, from Defense Advanced Research Projects Agency, $750,000, “Analytic-Directed Multi-Scale Synthesis System.”

Cruz, Christian D; botany & plant pathology, from Foreign Agricultural Service, $49,643, “Hosting Borlaug Fellow from Bangladesh: Wheat Blast.”

Davies, Patricia and Liu, Yangfan; mechanical engineering, from American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), Inc, $136,552, “Annoyance Thresholds of Tones in Noise as Related to Building Services Equipment.”


Deng, Qing; biological sciences, from PHS-NIH National Institute of General Medical Science, $132,940, “Role of Micronews in Neutrophil Migration.”

Doudareva, Natalia and Morgan, John A; biochemistry, chemical engineering, from National Science Foundation, $126,843, “Deciphering Molecular Mechanisms Involved in Plant Volatile Emission.”

Drineas, Petros S; computer science, from National Science Foundation, $249,892, “Af: Small: Collaborative Research: Practice-Friendly Theory and Algorithms for Linear Regression Problems.”

Eckhardt, Christopher; psychological sciences, from PHS-NIH National Institute on Alcohol Abuse, $44,524, “Randomized Controlled Trial of an Attention-Based Intervention for Alcohol-Facilitated Intimate Partner Violence – Joel Sprunger Niaaa Fellowship.”

Egel, Daniel S; botany & plant pathology, from Illiana Watermelon Association, $7,000, “Management of Fusarium Wilt of Watermelon Seedlings in Transplant Trays.”


French, Richard Mark; engineering technology, from Sinclair Community College, $17,906, “The Science, Technology, Engineering & Mathematics (STEM) Guitar Project; Amendment 2, Grant 10001263.”
Garman to Hudmon

Garman, Christina L; computer science, from National Science Foundation, $249,988, “SaTC: CORE: Small: Collaborative: Building Sophisticated Services with Programmable Anonymity Networks.”


Gentry, Marcia L; educational studies, from U.S. Department of Education, $493,702, “Developing Talents and Improving Student Achievement Among Traditionally Underrepresented Populations: an Experimental Investigation Scaling-Up the Total School Cluster.”


Gleich, David F; computer science, from Stanford University, $29,750, “Miner: Multimodal Networks: a General Representational Language Applied to Bio-Medical Hypothesis Generation and Validation; Amendment 12, (Grant 13000404).”

Gondhalekar, Ameya D; entomology, from Syngenta Crop Protection Inc., $4,000, “Ism-555: Defining Efficacious Rates in Cockroach Gel Bait Matrix.”

Goodsell, Johnathan Eugene; Dustin, Joshua S and Mansson, Jan-Anders E; aeronautics & astronautics, Composites Manufacturing and Simulation Center, chemical engineering, from Institute for Advanced Composites Mf Innovation, $136,254, “Characterization of Kevlar-Reinforced Composites for Predictive Simulation – Phase 1.”

Goosen, Robert K; TAP Manufacturing Extension Partnership, from University of Michigan, $300,000, “Defense Cybersecurity Manufacturing Assistance Program.”

Gounder, Rajamani P and Ribeiro, Fabio H; chemical engineering, from Cummins, Inc., $154,000, “Ammonia Selective Catalytic Reduction (SCR) on Cu Catalysts.”

Gray, Nicholas W; TRIO program, from Indiana Department of Education, $10,480, “2018 Indiana University-Purdue University Fort Wayne (IPFW) Summer Food Service Program.”

Greeley, Jeffrey P; Ortalan, Volkan and Ribeiro, Fabio H; chemical engineering, materials engineering, from National Science Foundation, $75,000, “DMREF: Collaborative Research: Design of Multifunctional Catalytic Interfaces from First Principles.”

Greeley, Jeffrey P; Ortalan, Volkan and Ribeiro, Fabio H; chemical engineering, materials engineering, from National Science Foundation, $140,000, “DMREF: Collaborative Research: Design of Multifunctional Catalytic Interfaces from First Principles.”

Greeley, Jeffrey P; Miller, Jeffrey T and Zemlyanov, Dmitry Y; chemical engineering, electrical & computer engineering, from National Science Foundation, $450,000, “The Strong-Metal Support Interaction: Insights from Molecular Theories and Experiments.”

Griffin, Paul M; industrial engineering, from Reginstrief Foundation, $116,963, “Regenstrief Center for Healthcare Engineering” (a Discovery Park award – Regenstrief Center for Healthcare Engineering)

Hambrusch, Susanne E; computer science, from Purdue University F N Andrews Fellowship, $19,278, “Shehata, Aly.”

Hamilton, Roy L; educational opportunities program – North Central, from Indiana Department of Education, $1,988, “Summer Food Service Program 2018 - PNW Camp Leo.”

Harbin, Sherry L; biomedical engineering, from Indiana University Purdue University at Indianapolis, $23,340, “2017-18 Joint PhD Program for Graduate Support ? Silvia Canelon.”

Harbin, Sherry L; biomedical engineering, from Indiana University Purdue University at Indianapolis, $10,698, “2017-18 Joint MDPhD Program for Graduate Support ? Liu.”


Hertel, Thomas W and Baldos, Urs Lantz C; agricultural economics, from University of Minnesota, $45,109, “Assessing the Macroeconomic Consequences of Enhanced Biodiversity and Ecosystem Services.”


Hertel, Thomas W; food and agribusiness management, from RIIETI (Research Institute of Economy, Trade and Industry), $20,435, “Global Trade Analysis Project (GTAP) Consortium – Rieti.”


Hoffmann, Stephen R; chemistry, from Ross Graduate Fellowship-Assistanship, $30,026, “Clendening, Reese.”

Hook, Tomas O; Carlton, Joshua S and Foley, Carolyn J; forestry & natural resources, from National Oceanographic & Atmospheric Administration, $50,000, “Illinois-Indiana Sea Grant 2018 Institutional Base Adjustment.”


Hountz, Randall A; industrial engineering, from Indiana State Office of Rural Health, $175,000, “Leadership-Pull Improvements in Critical Access Hospital” (a Discovery Park award – Regenstrief Center for Healthcare Engineering)

Howell, Kathleen; aeronautics & astronautics, from National Aeronautics and Space Administration, $150,000, “Design, Targeting and Guidance Strategies in Complex Multi-Body Regimes Incorporating Low-Thrust Capabilities.”

Huang, Jen-Yi; food science, from Indiana Design Consortium, Inc, $500, “Multi Sponsored Gift.”

Hudmon, Andy; medicinal chemistry & molecular pharmacology, from Indiana University Purdue University at Indianapolis, $22,053, “Spinophilin Function in Regulating Pathological Responses to Psychostimulant Drugs of Abuse.”
**Dimensions of Discovery**

Purdue University Sponsored Program Awards — September 2018

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**Hurt to Kreisle**

**Hurt, R Douglas;** history, from Ross Graduate Fellowship-Assistantship, $23,192, “Schnakenber, Collin.”

**Hwang, Inseok;** aeronautics & astronautics, from Mosaic ATM Inc, $80,000, “Anomaly Detection in the National Airspace System, Amendment 3; Grant 12000189.”

**Ishii, Mamoru and Zhu, Qingzi;** nuclear engineering, from Bechtel Bettis, Inc., $100,000, “Two-Phase Interfacial Structure Development: late Annular Flow Experiments.”

**Jagannathan, Suresh;** computer science, from Systems & Technology Research, $120,000, “Mitchell: Software-Defined Hardware.”

**Jiao, Dan;** electrical & computer engineering, from Intel Corporation, $100,000, “Signal Integrity Analysis of Nonlinear I/O Circuits.”

**Jin, Jian;** agricultural & biological engineering, from Sumitomo Chemical Company, $800,000, “Greenhouse Plant Phenotyping for Detecting Physiological and Morphological Changes.”

**Johnson, Mary E and Gu, Yue;** aviation & transportation technology, from Old Dominion University Research Foundation, $12,000, “Defining Aviation Operational Sustainability for GA Airports.”

**Johnson, William G;** botany & plant pathology, from Bayer Cropscience, $19,000, “Weed Science Research Volunteer Support.”

**Johnson, William G;** botany & plant pathology, from FMC Corporation, $7,000, “Weed Science Research Volunteer Support.”


**Johnson, William G and Young, Bryan G;** botany & plant pathology, from United Soybean Board, $314,153, “FY 18-19 Indiana University School of Medicine (IUSM) – Lafayette General Fund.”

**Johnson, William G;** botany & plant pathology, from Monsanto Company, $30,000, “Weed Science Research Volunteer Support.”


**Jun, Martin Byung-Guk;** mechanical engineering, from Korea Institute of Industrial Technology, $231,481, “Development of Manufacturing System for Cfrp (Carbon Fiber Reinforced Plastics) Machining.”


**Key, Nicole L;** mechanical engineering, from Duke University, $122,413, “Enhanced Physical Understanding of Forced Response, Inlet Distortion, and Blade Row Interactions in the Purdue 3-Stage Compressor.”

**Key, Nicole L;** mechanical engineering, from Rolls-Royce Corporation, $293,280, “Updating the Bulkhead and Static Structure Support on the Purdue 3-Stage Compressor.”

**Key, Nicole L;** mechanical engineering, from Zunum Aero Inc, $353,341, “Development of Fan Research Facility for Hybrid-Electric Aircraft.”


**Kim, Young L;** biomedical engineering, from PHS-NIH Fogarty International Center, $177,378, “Laboratory Test-Comparative Mobile Assessments of Hemoglobin for Anemia Detection.”

**Kim, Young L;** biomedical engineering, from PHS-NIH Fogarty International Center, $73,548, “1R21TW010620 Supplement: Africa Global Mhealth Research Institute.”

**Kim, Yuan H;** animal sciences, from Purdue University F N Andrews Fellowship, $31,959, “Tuell, Jacob.”

**Klimeck, Gerhard;** nuclear engineering, from United Soybean Board, $312,561, “Development of Fan Research Facility for Hybrid-Electric Aircraft.”

**Konieczny, Stephen F;** biological sciences, from Ross Graduate Fellowship-Assistantship, $19,278, “Quan, Menchus.”

**Kramer, Robert A;** housing, from Indiana Department of Transportation, $25,000, “Indiana Department of Transportation (INDOT) Highway Lighting Support Services.”

**Krause, Jane E;** pharmacy practice, from Coalition for a Drug Free Tippecanoe County, $5,000, “Addressing Alcohol and Prescription Drug Abuse/Misuse on Campus: A Continuing Project.”

**Kreisle, Regina A;** medical education, from Indiana University, $30,000, “FY 19 Indiana University School of Medicine (IUSM) Lafayette Student and Faculty Recruitment and Retention.”

**Kreisle, Regina A;** medical education, from Indiana University, $2,664,000, “FY 18-19 Indiana University School of Medicine (IUSM) – Lafayette General Fund.”

**Kreisle, Regina A;** medical education, from Indiana University, $18,352, “FY 19 Indiana University School of Medicine (IUSM) Lafayette Student Technology Fund.”

**Kreisle, Regina A;** medical education, from Indiana University, $18,352, “FY 19 Indiana University School of Medicine (IUSM) Lafayette Student Activity Fund.”

**Kreisle, Regina A;** medical education, from Indiana University, $15,000, “FY 19 Indiana University School of Medicine (IUSM) Lafayette Life Cycle Fund.”
Kruczenski to Nemali


Krusemark, Casey J; medicinal chemistry & molecular pharmacology, from PHS-NIH National Institute of General Medical Science, $376,148, “Harnessing the in Vitro Selection for Activity-Based Proteomics and Chemical Probe Development.”

Kuang, Shihuan; animal sciences, from University of Kentucky, $56,865, “University of Kentucky Support for X. Liu Students.”

Latin, Richard X; botany & plant pathology, from Syngenta Crop Protection Inc., $9,200, “Turfgrass Disease Research.”

Latin, Richard X; botany & plant pathology, from Syngenta Crop Protection Inc., $10,500, “Turfgrass Disease Research.”

Liceaga, Andrea M; food science, from Impossible Foods Inc., $6,500, “Multi Sponsored Gift- Sensory.”

Liu, Xiaoji and Ratliff, Timothy L; biochemistry, comparative pathobiology, from PHS-NIH National Cancer Institute, $354,563, “Improving Chemotherapy of Castration-Resistant Prostate Cancer.”

Longuski, James M and Saikia, Sarag J; aeronautics & astronautics, from Lockheed Martin Corp., $25,000, “Mars Base Camp.”


Lyle, Ladawn T; comparative pathobiology, from Northwestern University, $5,373, “Pathologic Analysis of Experimental Models of Breast Cancer (Northwestern).”

Lynall, Matthew D; Duval-Couetil, Nathalie A L; Beier, Brooke L; Lee, Hyowon and Peoples, Timothy R; management, technology leadership and innovation, biomedical engineering, from National Science Foundation, $80,000, “Type II: Purdue University I-Corps Site.”

Lyutikov, Maxim Y; physics & astronomy, from National Aeronautics and Space Administration, $72,928, “Pulsars and Wind Nebulae: From Coherent Radio, to X-Rays, to Gamma-Rays.”

Mathur, Aditya P; computer science, from National Science Foundation, $37,200, “CPS: TTP Option: Medium: Collaborative Research: Trusted CPS from Untrusted Components.”

Mattoo, Seema; biological sciences, from PHS-NIH National Institute of General Medical Science, $301,461, “Role of Fic Proteins in Cellular Signaling.”

Mauer, Lisa J; food science, from Grain Processing Corporation, $2,174, “Moisture Sorption Profiling of 23 Maltodextrins.”

McKee, Renee K; field extension agents, from National 4-H Council, $500, “2018 CES/RWJF Culture of Health Youth-Mini Grant.”

McKee, Renee K; Blankenship, Bonnie T and Ruiz, Yumary; field extension agents, health & kinesiology, from National Institute of Food & Agriculture, $92,792, “4-H Pals Purdue University Sustainable Community Project.”

Mei, Jianguo; chemistry, from Amblight, Inc, $283,443, “Scalable Synthesis of Electroactive Polymers and Fabrication of Their Thin Films.”

Mengiste, Tesfaye D; botany & plant pathology, from Rural Development Administration, $12,641, “Understanding Epigenetic Control of Plant Immunity for New Biomaterials.”

Meyer, Scott E; mechanical engineering, from Inspace, LLC, $50,752, “Thruster Development Testing.”

Miller, Jeffrey T; chemical engineering, from Argonne National Laboratory, $20,000, “Catalyst Characterization to Support Catalyst Development for Converting Biomass; Amendment 1, Grant 14000364.”

Min, Byung-Cheol; computer information technology, from National Institute of Justice, $50,000, “Cybersecurity and Safety Challenges in Autonomous Vehicles: Threats Identification and Countermeasures Development.”

Moore, Tamara J and Guzev, Siddika; engineering education, curriculum & instruction, from University of Minnesota, $57,068, “Engteams: Engineering to Transform the Education of Analyses, Measurement, and Science in a Team-Based, Targeted Mathematics-Science Partnership.”

Morita-Mullaney, Patricia M; Chiu, Ming Ming and Wright, Wayne E; curriculum & instruction, educational studies, education administration, from U.S. Department of Education, $403,401, “Project Puea: Parent and Professional Understanding for Equity in Dual Language Education.”

Mudawar, Issam; mechanical engineering, from National Aeronautics and Space Administration, $35,000, “Flow Boiling and Condensation Experiment (FBCE).”

Mukherjee, Partha P; mechanical engineering, from National Science Foundation, $219,779, “Collaborative Research: Mesoscale Analysis of Transport and Degradation in Electrochemical Systems.”

Mukherjee, Partha P; mechanical engineering, from National Science Foundation, $208,297, “Collaborative Research: Sodiation Driven Multiscale Chemical-Structural Interactions in Alloy Electrodes.”

Nateghi, Roshanak and Chavas, Daniel R; industrial engineering, earth, atmospheric & planetary sciences, from National Science Foundation, $222,102, “Collaborative Research: A Data-Centric Uncertainty-Informed Framework for Resilience Analytics of Critical Infrastructure Under Extreme Climate Events.”

Nauman, Eric A; mechanical engineering, from Revtech Materials, LLC, $5,000, “Nauman Voluntary Support – Revtech.”

Nauman, Eric A; mechanical engineering, from Multi-Sponsored Industrials, $10,000, “Hirrt Laboratory Support.”

Nemali, Krishna and Ingwell, Laura L; horticulture & landscape architecture, entomology, from Foreign Agricultural Service, $46,660, “Borlaug Fellowship- Egypt/ Plant Health/Integrated Pest Management (IPM) for Hydroponic Vegetable Crops.”
Neumeister to Richert

Neumeister, Norbert; physics & astronomy, from Fermi National Accelerator Laboratory, $8,200, “US Compact Muon Solenoid (CMS) Group at Purdue University for Activities Related to US Compact Muon Solenoid (CMS) Common Operations.”

Neumeister, Norbert and Hacker, Thomas J; physics & astronomy, computer information technology, from Princeton University, $529,972, “US Compact Muon Solenoid (CMS) Group at Purdue University for Activities Related to the US Compact Muon Solenoid (CMS) Software & Computing Subsystem; Amendment 6; (Grant 10001108).”

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

Niepokuj, Mary K; English, from Lynn Interdisciplinary Graduate Fellowship, $22,854, “Call, Zachary.”

Oliver, Haley F; food science, from Family Health International, $600,000, “Afghanistan University Support & Workforce Development Program.”

Panchal, Jitesh H; mechanical engineering, from National Science Foundation, $58,266, “EAGER: Collaborative Research: Demonstration of the Importance of Research Setting Representativeness in Systems Engineering and Design Research.”

Patton, Aaron J and Torres Bravo, Ariana P; horticulture & landscape architecture, from Indiana State Department of Agriculture, $495,635, “Filling a Critical Need: Diversifying Soy Production with Sustainable Turfgrasses.”


Peroulis, Dimitrios; electrical & computer engineering, from BAE Systems Advanced Technologies Corp, $49,771, “Tunable Notch Filters for Full Spectrum Staring ES Receiver W/Instantaneous DF” (a Discovery Park award – Birck Nanotechnology Center)


Post, Carol B; medicinal chemistry & molecular pharmacology, from PHS-NIH National Institute of General Medical Science, $328,542, “Nuclear Magnetic Resonance (NMR) Structure of Peptide and Protein Complexes.”

Post, Carol B; medicinal chemistry & molecular pharmacology, from PHS-NIH National Institute of General Medical Science, $7,924, “Nuclear Magnetic Resonance (NMR) Structure of Peptide and Protein Complexes.”

Pourpoint, Timothee L and Marconnet, Amy M; aeronautics & astronautics, mechanical engineering, from Space Exploration Technologies Corp, $20,000, “Thermal and Physical Analysis on Sooted/Coked Metal Coupons.”

Proctor, Robert W and Li, Ninghui; psychological sciences, computer science, from North Carolina State University, $86,125, “Science of Security Tablet: Impact through Research, Scientific Methods, and Community Development.”

Raman, Arvind; Burniske, Andrea E; Burniske, Gary R; Sinfield, Joseph V and Yih, Yuehwern; engineering administration, Global Engineering Programs and Partnerships, agronomy, civil engineering, industrial engineering, from Agency for International Development, $1,677,471, “LASER Partners for University-LED Solutions Engine (PULSE).”

Ramanathan, Shriram; materials engineering, from Office of Naval Research, $50,000, “Tunable Electronic Composites with Phase Change Materials and Controlled Disorder.”

Ramirez, Julio Alfonso; civil engineering, from National Science Foundation, $95,525, “Workshop NHERI 5-Year Science Plan for Natural Hazards.”

Rao, Sanjay G; electrical & computer engineering, from National Science Foundation, $300,000, “ICE-T: RC: Optimizing Internet Video through Support from the Network Edge.”

Ratliff, Timothy L; comparative pathology, from PHS-NIH National Cancer Institute, $97,078, “Cancer Center Support Grant (CORE).”

Ratliff, Timothy L; comparative pathology, from University of Kentucky, $96,684, “U of Kentucky Support for X. Liu Students of Cancer Center.”

Rhoads, Jeffrey Frederick; mechanical engineering, from Level 6 Engineering LLC, $37,575, “Sensors for Urban Pest Detection.”

Ribeiro, Fabio H; chemical engineering, from Clariant Corporation, $30,000, “Cistar Industrial Consortium (40001938).”

Ribeiro, Fabio H; Agrawal, Rakesh and Siiorla, Jeffrey J; chemical engineering, from National Science Foundation, $370,863, “Supplement to Eec-1647722 – Research for Thrust 4.”

Ribeiro, Fabio H; chemical engineering, from Shepherd Chemical Company, $5,000, “CISTAR Industrial Consortium (40001938).”

Ribeiro, Fabio H; chemical engineering, from Gas Technology Institute, $15,000, “CISTAR Industrial Consortium (40001938).”

Ribeiro, Fabio H; Mentzer, Ray A and Drummond, Margaret M; chemical engineering, from National Science Foundation, $181,000, “Supplement to Eec-1647722 – Safety.”

Ribeiro, Fabio H; chemical engineering, from Chevron Phillips Chemical Company, $15,000, “CISTAR Industrial Consortium-2018 Membership.”

Richards, Elizabeth A; Franks, Melissa M; Rietdyk, Shirley and Christ, Sharon L; nursing, human development & family studies, health & kinesiology, from American Nurses Foundation, $5,000, “Stepping Out: A Pilot Study of Couples Paired Walking.”

Richert, Brian T; animal sciences, from Administration Alliance Nutrition, Inc., $3,000, “Swine Research.”

Richert, Brian T; animal sciences, from Ross Graduate Fellowship-Assistantship, $31,959, “Thayer, Morgan.”

Richert, Brian T; animal sciences, from Administration Alliance Nutrition, Inc., $5,000, “Swine Research.”
Richmond to Telenko

Richmond, Douglas Scott; entomology, from Bayer Cropscience, $15,000, “Turfgrass Entomology Research.”

Richmond, Douglas Scott; entomology, from Midwest Regional Turf Foundation, $7,000, “Turfgrass Entomology Research.”

Rogers, Timothy G; electrical & computer engineering, from Sandia National Laboratories, $105,000, “Gpgpu-Sim Sst Integration.”

Roy, Kaushik; electrical & computer engineering, from Hewlett Packard Enterprise Company, $60,000, “Training in the Puma Architecture.”

Russell, Mark A; agricultural sciences education & communication, from National Association of Ag Education, $5,000, “Case Program.”


Sangid, Michael D; aeronautics & astronautics, from Sandia National Laboratories, $122,726, “Illumination of Damage within High-Strength Alloys in Abnormal Mechanical Environments.”

Sanmiguel, Sandra F; Burgess, Wilella Daniels; Green, Henry W; Reed, Willie M and Zenor, Bianca N; veterinary medicine administration, education administration, veterinary clinical sciences, from Health Resources & Services Administration, $639,093, “Veterinary Up! the National Hcop Academy for Veterinary Medicine.”

Schoelen, William E; biomedical engineering, from Cook Research Incorporated, $82,992, “Pre-Clinical Evaluation Testing Agreement Studies: Ci-Peat (Poc), Ci-Thin, Ci-Peat and Poc.”

Schultheiss, Nathan C and Holloway, Eric A; chemical engineering, engineering administration, from Pioneer Oil Company, $25,000, “Funding of Initial EOR Lab Operational Costs.”

Scott, David E; Indiana state chemist, from Environmental Protection Agency, $247,033, “FY 2019 Pesticide Cooperative Agreement.”

Shan, Jie; civil engineering, from Kitware Inc, $44,999, “DANESFIELD: Data Nexus for Estimating Semantics and Fusing Inferred Exterior Layers in 3-D, Amendment 1; Grant 15200056.”

Sheffield, John W; polytechnic statewide technology, from International Association for Hydrogen Energy, $2,500, “IAHE Expenses.”

Shi, Riyi; basic medicine science, from Indiana University Purdue University at Indianapolis, $28,828, “2016-2017 Joint PhD Program for Graduate Support – Andy Chen.”

Shi, Riyi; basic medicine science, from Indiana University, $61,898, “Mechanisms and Rehab Strategies for Social and Psychological Impairments Induced by mITB.”

Shih, Tom I-P; aeronautics & astronautics, from Ames Laboratory, $150,000, “Computational Analysis of Advanced Cooling Strategies for High-Efficiency and Long-Service Life Turbines; Amendment 29, [Grant 14000202].”

Siegmund, Thomas H; mechanical engineering, from National Science Foundation, $8,000, “Mechanics of Topologically Interlocked Stereotomic Material Systems.”

Sinclair, Thomas J; mathematics, from National Science Foundation, $60,000, “Von Neumann Algebras: Rigidity, Applications to Measurable Dynamics, and Model Theory.”

Smith, Daniel W and Witt, Michael C; philosophy, libraries administration, from National Endowment for the Humanities, $294,236, “The Seminars of Gilles Deleuze.”

Son, Steven F; mechanical engineering, from The National GEM Consortium, $20,000, “GEM-Minorities in Engineering and Science – Gabriel Montoya.”


Stevens, Wanda J; nutrition science, from The A2 Milk Company, $135,000, “Savaiano Voluntary Support.”


Sudhoff, Scott D and Pekarek, Steven D; electrical & computer engineering, from Emerson Electric Company, $12,500, “Review of High-Speed Non-PM Machine Topologies.”

Swihart, Robert K; forestry & natural resources, from Indiana Department of Natural Resources, $1,269,380, “Integrated Deer Management in Indiana.”

Szpankowski, Wojciech; computer science, from National Science Foundation, $4,940,695, “Emerging Frontiers of Science of Information.”

Tantama, Mathew C; Cannon, Jason R and Rochet, Jean-Christophe; chemistry, health sciences, medicinal chemistry & molecular pharmacology, from National Science Foundation, $63,654, “Engineering Optogenetic Tools for Studying Neuropeptide Activity.”

Tao, Weiguo Andy; biochemistry, from Merck Sharp & Dohme Corp, $50,000, “Changes in the Levels of Adme Proteins Due to Induction: Evaluation of Extracellular Vesicles as the Protein Source.”

Taylor, Lynne S and Zhou, Qi; industrial & physical pharmacy, from Japan Corn Starch Co., Ltd, $61,217, “Investigation of Formulation Performance for Oral Dosage Forms Using Grastar.”

Telenko, Darcy E P; botany & plant pathology, from Dow Agro Sciences, $4,000, “Extension Voluntary Support.”
**Thompson to Young**


**Topp, Elizabeth M**: industrial & physical pharmacy, from Merck Sharp & Dohme Corp, $50,000, “Peptide Fibrillation.”

**Troy, Cary D**: civil engineering, from Lynn Interdisciplinary Graduate Fellowship, $30,026, “Tiwari, Alka.”

**Tsoukalas, Lefteris**: nuclear engineering, from North Carolina State University, $320,000, “Proposal for a Consortium for Nonproliferation-Enabling Capabilities; Amendment 4, Grant 14000233.”

**Underwood, Marion K**: psychological sciences, from PHS-NIH National Institute of Child Health and Human Development, $253,899, “Social Aggression: Growth, Outcomes, and Digital Communication.”

**Unknown Coeus Person** and **Case, Jennifer C**: mechanical engineering, from National Aeronautics and Space Administration, $75,000, “Control of an Active Sensor Skin for Extreme Terrain Mobility.”

**Vaccia, Andrea**: agricultural & biological engineering, from Magna Powertrain of America Inc, $17,940, “Design Analysis of a Gerotor Pump for High Pressure Applications.”

**Van Der Mensbrugghe, Dominique Y**: agricultural economics, from U.S. Department of Commerce, $97,496, “Development and Transfer of PE/GE model for Department of Commerce Center for Global Trade Analysis (GTAP)/Purdue University.”

**Varala, Kranthi K**: horticulture & landscape architecture, from New York University, $92,224, “Evonet: A Phylogenomic and Systems Biology Approach to Identify Genes Underlying Plant Survival in Marginal, Low-Nitrogen Soils.”

**Voyles, Richard M**: engineering technology, from National Science Foundation, $65,000, “Collaborative Research: I/UCRC for Robots and Sensors for the Human Well-Being.”

**Weaver, Connie M; Hodges, Joanna K** and **McCabe, George P**: nutrition science, science administration, from National Dairy Council, $199,385, “The Effect of Dairy Vs. Plant-Based Beverages on Bioavailability of Calcium and Vascular Function.”

**Wei, Alexander**: chemistry, from David & Anna Wei Charitable Foundation, $4,900, “Wei Gift Funds.”

**Weiner, Andrew M**: electrical & computer engineering, from Oak Ridge National Laboratory, $4,780, “A Quantum Interconnect for Matter Qubits Based on Frequency Encoded Photonic Qubits.”

**Weinstein, Dana**: electrical & computer engineering, from Intel Corporation, $300,000, “Intel Labs: GaN on LiNbO3 Programmable Radio Frequency (RF) Filters, Amendment 6; (Inc Orig Grt/New # 209422 / 40001512).”


**Wharry, Janelle P** and **El-Azab, Anter A**: nuclear engineering, materials engineering, from U.S. Department of Energy, $640,000, “Microstructure-Based Benchmarking for Micr...”

**Whelton, Andrew J**: civil engineering, from Ross Graduate Fellowship-Assistanship, $31,959, “Noh, Yoorae.”

**Witt, Michael C** and **Zhang, Tao**: libraries administration, from University of Virginia, $16,507, “Data Management Planning Tool 2: Responding to the Community.”

**Wu, Wenzhuo** and **Ye, Peide**: industrial engineering, electrical & computer engineering, from National Science Foundation, $413,801, “Scalable Nanomanufacturing of Large-Area 2d Spiral-Chain Van Der Waals Crystal for Ultrathin, Flexible, High-Performance Piezoelectric Devices.”


**Xu, Xianfan**: mechanical engineering, from Advancement Storage Technology Consortium, $70,000, “Novel NFT Design with Improved Optical Throughput and Confainment” (a Discovery Park award – Birck Nanotechnology Center)

**Yang, Danzhou** and **Cushman, Mark S**: medicinal chemistry & molecular pharmacology, from PHS-NIH National Cancer Institute, $150,270, “Indenoisoquinolines as Dual Inhibitors of c-MYC Transcription and Topoisomerase I.”

**Yaninek, John S** and **Burniske, Andrea E**: entomology, global engineering programs, from Rutgers State University, $31,000, “Improving Income and Nutrition of Smallholder Farmers in Eastern Africa Using a Market Driven Approach to Enhance Value Chain Production of African Indigenous Vegetables.”

**Yazawa, Kazuaki**: mechanical engineering, from Lockheed Martin Aeronautics Company, $100,000, “Integrated Thermal Management of Aerospace Vehicles Consortium Membership – Lockheed.” (a Discovery Park award – Birck Nanotechnology Center)

**Yeo, Yoon**: industrial & physical pharmacy, from PHS-NIH National Institute of Biomedical Imaging and Bioengineering, $142,517, “Environmentally-Adaptive Nanoparticles with Focal Irradiation for Cancer Therapy.”

**Yeo, Yoon**: industrial & physical pharmacy, from Egyptian Cultural and Educational Bureau, $5,000, “Hytham Hasan Ahmed Gadalla Voluntary Support.”


**Young, Bryan G; Johnson, William G** and **Widholm, Joshua R**: botany & plant pathology, horticulture & landscape architecture, from United Soybean Board, $446,004, “Investigation of Off-Target Movement of Dicamba.”
Zhang to Zhou

Zhang, Jiansong; De Cresce El Debs, Luciana; Koch, Daphene C and Min, Byung-Cheol: construction management technology, computer information technology, from National Science Foundation, $749,770, “PFI: Partnerships for Innovation in Interoperable Building Information Modeling Technology for Applications in Automated Building Code Compliance Checking and Modular Construction Automation.”

Zhang, Xinghang: materials engineering, from University of Nebraska-Lincoln, $200,511, “Bridging Microscale to Macroscale Mechanical Property Measurements and Predication of Performance Limitation for Fecral Alloys Under Extreme Reactor Applications.”

Zhang, Xinghang: materials engineering, from Texas a&M University, $71,374, “Zhang – High Strength and High Ductility Martensitic Steels; Amendment 2, [Grant 10001105].”

Zhao, Fu; Shade, Steven A; Sutherland, John W and Howarter, John A: environmental & ecological engineering, materials engineering, from National Science Foundation, $15,000, “Planning IUCRC Purdue University: Center for Industrial Energy Efficiency (CIEE).”


Zhou, Qi: physics & astronomy, from National Science Foundation, $81,448, “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.