Abbott to Connor


Abdel-Khalik, Hany S; nuclear engineering, from Idaho National Laboratory, $50,000, “Improvements of Algorithms for the Production of Prototypical Synthetic Time Histories.”

Abdel-Khalik, Hany S; nuclear engineering, from Idaho National Laboratory, $151,659, “Contributing to Signal Analysis Mlai Software Framework for LDRD.”

Adeola, Olayiwola; animal sciences, from Danisco Animal Nutrition, $500, “Danisco.”

Akrige, Jay T; Rickus, Jenna L; Ward, Mark Daniel; Dragnev, Peter D; Drummond, Carl N and Selvitella, Alessandro Maria; Office of Provost Administration, Vice President for Teaching & Learning Administration, statistics, mathematics, Academic Affairs Administration, from Lilly Endowment Inc., $10,000,000, “Charting the Future for Indiana’s Colleges and Universities: the Indiana Digital Crossroads.”


Allebach, Jan P; electrical & computer engineering, from HP Inc, $75,000, “Industrial Inspection.”

Aparicio, Virginia; field extension, from Community Foundation of Elkhart County, $500, “Frm Latino Focus Group.”

Armstrong, Shalamar D and Thompson, Nathanael M; agronomy, agricultural economics, from Indiana Corn Marketing Council, $80,083, “Enviro-Strip Cropping: a Life Cycle Analysis of Next Generation Cover Crop Management.”

Basaran, Osman A; chemical engineering, from Glaxo Smith Kline, $25,000, “Purdue Process Safety and Assurance Center(P2SAC).”


Benjamin, Tamara J; Rahman, Md S; Shoaf, Nathan Lee and Yousefi Bahambari, Peyman; Cooperative Extension Service, Engineering Projects in Community Service, from Legacy Foundation, Inc., $25,000, “Urban Farming.”

Bermel, Peter A; electrical & computer engineering, from Department of the Army, $1,600,000, “Task 3.7 (Scale Hi/Ap Model Execution).” (a Discovery Park award – Birck Nanotechnology Center)

Bermel, Peter A; electrical & computer engineering, from Department of the Army, $300,000, “Task 3.6 (Scale Hi/Ap Model Execution).” (a Discovery Park award – Birck Nanotechnology Center)

Bhave, Sunil A; electrical & computer engineering, from BAE Systems Advanced Technologies, Inc., $52,000, “Process Development, Device Fabrication and Characterization in Support of BAE Broadband Electronic-Warfare-Transceivers Enabled by Adaptive Magnetostatic-Wave-Technology (Beam) Program.” (a Discovery Park award – Birck Nanotechnology Center)

Bhave, Sunil A; electrical & computer engineering, from U.S. Department of Interior, $633,026, “MCOQA: Mechanically-Driven, Coherence-Enhanced Quantum Angle Sensor, Inc, Grant 15200066.”

Bianchi, Antonio; computer science, from Google Inc, $3,000, “Multi Sponsor Voluntary Support.”

Bigelow, Cale A; horticulture & landscape architecture, from Ocean Organics Corporation, $4,000, “Putting Greens Research.”

Biswas, Rudro R; physics & astronomy, from Sandia National Laboratories, $17,900, “From Superconducting Circuits to Reversible Computing.”

Bouman, Charles A; electrical & computer engineering, from Oak Ridge National Laboratory, $95,000, “Intelligent Acquisition and Reconstruction for Hyperspectral Tomography.”

Bouman, Aaron B and Yang, Yang; health sciences, medicinal chemistry & molecular pharmacology, from Vanderbilt University Medical Center, $58,742, “Manganese Exposure Susceptibility as a Modifier of Excitotoxicity in Alzheimer’s Disease (Grant 1100975 Amendment #2).”

Braun, James E; mechanical engineering, from The Trane Co, $25,000, “Center for High Performance Building Consortium; Trane Technology Corp.”

Bullock, Darcy M; civil engineering, from Indiana Department of Transportation, $475,000, “JTRP Admin. Budget FY 2022.”

Casteel, Shaun N; agronomy, from Sulvaris Inc, $8,000, “Soybean Extension Research.”

Chan, Stanley H; electrical & computer engineering, from Intel Corporation, $10,000, “Multi Sponsor - Voluntary Support.”

Chen, Weinaong W; aeronautics & astronautics, from University of Delaware, $16,500, “Real Time Damage Visualization in Composites.”

Chopra, Gaurav and Kenttamaa, Hilkka I; chemistry, from Center for Bioanalytical Metrology, $100,000, “Fully Autonomous Hplc/Msn Interpretable Machine Learning Platform.”

Connor, Robert J; civil engineering, from Kraemer North America, $1,000, “Voluntary Support for R. Connor.”

Connor, Robert J; civil engineering, from Indiana Department of Transportation, $25,000, “Development of an Integrated Unmanned Aerial Systems (UAS) Validation Center (Grant 21000236).”

Connor, Robert J; civil engineering, from Indiana Department of Transportation, $25,000, “Increase (3): Development of an Integrated Unmanned Aerial Systems (UAS) Validation Center (21000236).”

Connor, Robert J; civil engineering, from Indiana Department of Transportation, $130,000, “Steel Bridge Research, Inspection, Training and Education Engineering Center (S-BRITE).”

Cooks, Robert Graham; chemistry, from PHS-NIH National Cancer Institute, $378,398, “Advanced Development of Desorption Electrospray Ionization Mass Spectrometry for Intraoperative Molecular Diagnosis of Brain Cancer Using Pathology Biopsies” (Grant 11000995).”

Couetil, Laurent L; Ivester, Kathleen M; Burgess, John R; Moore, George E; Olave, Carla and Park, Jae Hong; veterinary clinical sciences, from Grayson-Jockey Club Res. Foundation, Inc., $210,016, “The Effect of Omega-3 Fatty Acid Supplementation in Thoroughbred Racehorses with Equine Asthma.”

Courtney, Andrea L; public health, from Johns Hopkins University Center for Alternatives to Animal Testing, $6,900, “Multi Sponsor.”

Creighton, John C; biological sciences, from Brigham Young University, $2,500, “Species Effects on Stable Isotope Signatures in Burying Beetle.”

Cunningham, Robin E; Purdue Online Administration, from Indiana Commission for Higher Education, $5,000, “CARES Mental Health Programs.”

Delaurantis, Daniel A; aeronautics & astronautics, from Science Applications International, $16,000, “SAIC GXT CPS AHT Advance Hypersonics Technology (Grant 130004945; Modification #2).”

Delaurantis, Daniel A; aeronautics & astronautics, from Defense Advanced Research Projects Agency, $257,250, “Learning to Gamebreak (L2G); Modification 2; Grant 13000883.”


Delp, Edward J; electrical & computer engineering, from Air Force Research Laboratory, $886,427, “Modification 2: Discover: a Data-Driven Integrated Approach for Semantic Inconsistencies Verification (13000934).”

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

Dey, Tamal Krishna; computer science, from Ohio State University, $70,633, “Tripods-X:Res: Collaborative Research: Improving Templated Microstructures via Topological Data Analysis.”

Duerstock, Bradley S; biomedical engineering, from Indiana State Department of Health, $80,000, “Diagnosing Autonomic Dysreflexia after Spinal Cord Injury through Physiological Sensing and Machine Learning, Amendment 1; Grant 20000435.”

Dykhuizen, Emily C; medicinal chemistry & molecular pharmacology, from PHS-NIH National Cancer Institute, $349,125, “The Tumor Suppressive Role of PBRM1, the Bromodomain-Containing Subunit of the PBAF Chromatin Remodeling Complex (Grant 11000598, Amendment #4).”

Edwards, Nancy E; nursing, from Health Resources & Services Administration, $2,249,959, “Health Center Cluster (Grant 11001005).”

Egel, Daniel S; botany & plant pathology, from Mid-America Food Processors Association, $3,000, “Potassium Management.”

Ehlers, Shawn G; Agricultural & Biological Engineering Program, from National Institute of Food and Agriculture, $92,640, “Indiana Prepared (Purdue Rural Emergency Preparedness), Development of Targeted Rural-Disaster Specific Resources and Associated Training with Special Emphasis on Agricultural Production Sites.”

Ehlers, Shawn G and Niyogi, Devdutta S; Agricultural & Biological Engineering Program, agronomy, from National Institute of Food and Agriculture, $46,078, “Indiana Prepared (Purdue Rural Emergency Preparedness), Development of Targeted Rural-Disaster Specific Resources and Associated Training with Special Emphasis on Agricultural Production Sites.”

Ekensstedt, Kari J; basic medical science, from PHS-NIH Office of the Director, $12,536, “Novel Genetic Models for Vertebral Abnormalities (Grant 11000827).”

Elsenbaumer, Ronald L; Fort Wayne Chancellor Administration, from U.S. Department of Education, $7,764,293, “HEERF - Crrsaa - CARES Act Institutional Portion - PFWM.”

Engelberth, Abigail S; Agricultural & Biological Engineering Program, from Indiana Corn Marketing Council, $57,567, “Scalable Extraction of Lutein and Zeaxanthin from WDG.”

Feng, Yaohua; food science, from Michigan State University, $571,801, “Sustainable, Systems-Based Solutions for Ensuring Low-Moisture Food Safety.”

Fewer, Colin and Zamojski, Heather L; Dean of Students, Vice Chancellor Enrollment Management & Student Affairs Administration, from American Association of Collegiate Registrars and Admissions Officers, $3,640, “Implementation of a Student Engagement & Ctr Platform.”

Field, William E and Jones, Paul J; Agricultural & Biological Engineering Program, from University of Illinois at Champaign-Urbana, $30,000, “North Central Farm and Ranch Stress Assistance Center: Engaging Programs to Support Producer Wellbeing.”

Gallardo, Roberto; Purdue Center for Regional Development, from Boone County Community and Economic Development Corporation, $1,500, “Boone County Wage & Benefits Analysis.”

Gallardo, Roberto; Purdue Center for Regional Development, from University of Illinois, $75,000, “Supporting and Empowering the Broadband Ready Program.”

Garman, Christina L; computer science, from National Science Foundation, $100,550, “CAREER: Removing the Human Element: Securing Deployed Cryptographic Systems through the Use of Cryptographic Automation.”

Gkritza, Konstantina; Clawson, Rosalee A; Pekarek, Steven D; Riley, Donna M; Aliprantis, Dionysios; Haddock, John E and Bullock, Darcy M; civil engineering, political science, electrical & computer engineering, engineering education, from Utah State University, $333,370, “Advancing Sustainability through Powered Infrastructure for Roadway Electrification (Aspire).”

Goergen, Craig J; biomedical engineering, from Institute of International Education, $2,000, “Iie Gire Advisor Payment.”
Goldwater to Jiang

Goldwasser, Dan; computer science, from National Science Foundation, $140,662, “CAREER: Understanding Opinions by Reasoning Over Socially Grounded Language.”

Gonzalvo, Jasmine D; pharmacy practice, from College of Psychiatric and Neurologic Pharmacists Foundation, $375, “Multi Sponsor.”

Gounder, Rajamani P; chemical engineering, from Multi-Sponsored Industries, $1,500, “Multi Sponsor - Voluntary Support.”

Grant, Richard H; agronomy, from Colorado State University, $2,500, “Climatological Monitoring of Ultraviolet Radiation.”

Grant, Richard H; agronomy, from Lake Michigan Air Directors Consortium, $2,500, “Mercury Deposition Monitoring at Vincennes, IN.”

Grant, Richard H; agronomy, from Colorado State University, $2,500, “Climatological Monitoring of Ultraviolet Radiation.”

Guan, Wenjing; horticulture & landscape architecture, from Seedway, $1,500, “General Research Activities.”

Gupta, Sumeet Kumar and Rajunathan, Anand; electrical & computer engineering, from Army Research Office, $100,000, “Low Power Compact Non-Volatile Memory and IN-Memory Compute Architectures Enabled by 2D Piezoelectric Transistors.”

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

Hartman, Nathan W; computer graphics technology, from QEE-Composites INC, $4,996, “Scanning Methods for Bicycle Battery Case.”

Hassanein, Ahmed; nuclear engineering, from Hamamatsu Photonics, $38,100, “Multi Sponsor - Voluntary Support.”

Hendrix, Gena Kenitra and Bowen, Craig L; comparative pathobiology, Animal Disease Diagnostic Laboratory, from Animal Plant Health Inspection Service, $10,450, “Establishing Messaging through Newly Acquired Orchard Sequoia Lims.”

Hertel, Thomas W; agricultural economics, from Beijing DRCNET Information Co., Ltd, $40,870, “GTAP Consortium (Drc).”

Hertel, Thomas W; agricultural economics, from International Food Policy Research Institute, $20,435, “GTAP Consortium, International Food Policy Research Institute, Grant 40001186.”

Hertel, Thomas W; agricultural economics, from Environmental Protection Agency, $40,870, “GTAP Consortium; Grant 40001186.”

Higley, James B; engineering technology, from PMMI Foundation, $6,715, “Mobile Packaging Machinery Training and Service System.”

Hill, John E; educational studies, from Ball State University, $143,558, “Hoosier STEM Academy Program 2019-2021 - Year 2 2020 - 2021.”


Hoagland, Lori A; horticulture & landscape architecture, from Environmental Defense Fund, $30,000, “Best Practices for Reducing Heavy Metal Contamination in Carrots and Quinoa.”


Horgan, Briony H; earth, atmospheric, & planetary sciences, from National Aeronautics and Space Administration, $15,000, “Signatures of Basalt Weathering Under Cold and Icy Conditions on Mars - Fellowship for Noel Scudder.”

Howell, Kathleen; aeronautics & astronautics, from University of Alabama, $15,000, “Asset: Aerodynamics Software and Science Enabling Tool; Amendment 1; Grant 12000321.”

Huang, Fang; biomedical engineering, from Indiana University School of Medicine, $92,784, “2021-2023 Joint MDPhD Program Graduate Support - Madeline McLaughlin.”

Jacob, Zubin; Li, Tongcang; Lu, Na; Rahman, Rajib and Xuan, Yi; electrical & computer engineering, physics & astronomy, civil engineering, biomedical engineering, from Defense Advanced Research Projects Agency, $1,166,059, “Designing Quantum Fluctuational Metamolecules for Giant Cooperative Light-Matter Interaction Beyond Spectral Boundaries; Modification 6; Grant 13000972.” (a Discovery Park award – Birck Nanotechnology Center)

Jacob, Zubin; electrical & computer engineering, from Defense Advanced Research Projects Agency, $478,000, “Development of Ultrafast Cameras for Quantum Heat Assisted Detection and Ranging (Q-Hadar), Amendment 1; Grant 13000998.”

Jacob, Zubin and Bhave, Sunil A; electrical & computer engineering, from Defense Advanced Research Projects Agency, $432,920, “High Temperature Hybrid Metamaterials for Thermal Dual-Barrier Coatings; Modification 3; Grant 13000972.” (a Discovery Park award – Birck Nanotechnology Center)

Jacobs, Douglass F and Ginzel, Matthew D; forestry & natural resources, from National Science Foundation, $89,664, “Phase III IUCRC Purdue University: Center for Advanced Forestry Systems (CAFS) (Grant 10001630).”

Jagannathan, Suresh; computer science, from Galois, Inc, $23,338, “SPARTA - the Secure Parser Toolkit for Assurance Amendment#6; Grant 13000753.”

Jagannathan, Suresh; computer science, from Galois, Inc, $70,013, “SPARTA - the Secure Parser Toolkit for Assurance; Amendment#7; Grant 13000753 (SPARTA/Safedocs - Subcontract #2019-016, Modification 7).”

Janjigian, Christopher; mathematics, from National Science Foundation, $131,222, “Random Walks in Random Potentials.”

Jiang, Wen; biological sciences, from Indiana University, $12,979, “Atomic Models of Human Tau Filaments and Development of Tau Ligands (Grant 11001063 Amendment#4).”
Johal to Lister

Johal, Gurmukh S; botany & plant pathology, from The Agricultural Alumni Seed Improvement, $5,000, "Johal Voluntary Support."

Johnson, William G; botany & plant pathology, from Syngenta Crop Protection Inc., $8,500, "Weed Science Research."

Jun, Martin Byung-Guk; mechanical engineering, from Namho Choe, $10,000, "Multi Sponsor."

Jung, Jinha; civil engineering, from Shin, Daeho, $6,000, "Multi Sponsor."

Karabiyik, Umit and Dietz, James Eric; computer information technology, from Lockheed Martin Corp., $210,465, "Lockheed Martin- Purdue Collaborative Project."

Karcher, Darrin M; Erasmus, Marisa A and Abraham, Meagan Elise; animal sciences, from University of Minnesota, $14,962, "Establishing Pullet Welfare Measurements and Guidelines for Growers and Managers on Commercial Poultry Farms."


Kasinski, Andrea L and Soto-Vargas, Zulaida; biological sciences, from PHS-NIH National Cancer Institute, $46,036, "Mechanisms of Secretion and Uptake of Small Extracellular Vesicles (Sevs) in Non-Small Cell Lung Cancer (NSCLC)."

Keon, Thomas L; Chancellor Administration, from U.S. Department of Education, $7,681,852, "HEERF - Crrsaa - CARES Act Institutional Portion_ PNW."

Key, Nicole L; mechanical engineering, from Rolls-Royce Corporation, $283,204, "P3s - Cantilevered Stator Mapping."

Key, Nicole L; mechanical engineering, from Office of Naval Research, $424,496, "Research on Casing Treatments for Performance Enhancement of High-Speed Fans, Modification 2; Grant 13000783."

Kihara, Daisuke; biological sciences, from Higher Education Commission Pakistan, $3,467, "Bench Fee for Sadam Munawar."

Kim, Kee Hong; Ajuwon, Kolapo; Bhunia, Arun K; Buhman, Kimberly K; Cross, Tzu Wen L; Hamaker, Bruce R; Lindemann, Stephen R; Olson, Matthew and Reddivari, Lavanya; food science, animal sciences, nutrition science, biological sciences, from National Institute of Food and Agriculture, $238,500, "Food Science Approach to Enhancing Gut Health."

Kim, Seungjin; nuclear engineering, from Idaho National Laboratory, $375,000, "Experimental Study and CFD Design Tool Development for the Cartridge Loop in the Versatile Test Reactor - Increase Grant 14000435."

Kim, Young L; biomedical engineering, from Rural Dev Administration of the Republic of Korea, $2,000, "Development of Security Technologies Using Fluorescent Silk for Anti-Counterfeiting of Medicines."

Kingsbury, Bruce A; Arts & Sciences Administration, from DLZ Michigan, Inc, $119,000, "Exploring the Demographics of Blanding's Turtles (Emydoidea Blandingii) and Wood Turtles (Glyptemys Insculpta) Populations at Camp Grayling (Grant 40003199)."

Kreisle, Regina A; comparative pathobiology, from Indiana University, $5,000, "FY 21 IUSM - Lafayette Life Cycle Fund (Increase for Grant 40003098)."

Kuang, Shihuan; animal sciences, from National Institutes of Health, $306,900, "PTEN Function in Satellite Cells (Grant 11000579)."

Kuang, Shihuan and Oprescu, Stephanie; animal sciences, biological sciences, from PHS-NIH National Institute of Arthritis and Musculoskeletal and Skin Diseases, $37,923, "Year 2 Funding: Sox11 Function in Muscle STEM Cells (11000986)."

Kung, Yk Hein Franki; Jesiek, Brent K; Acheson-Clair, Kris and Woo, Sang Eun; psychological sciences, electrical & computer engineering, International Programs Administration, from National Science Foundation, $299,974, "Developing a Cultural Mindset Module for Improving Multicultural Engineering Team Effectiveness."

Ladisch, Michael R; Sharma, Pankaj; Ximenes, Eduardo A; Ardekani, Arzoo Motavalsizadeh; Erk, Kendra A; Gonzalez, Marcial; Mosier, Nathan S; Wassgren, Carl R; Ambrose, Rose Prabin Kingsly and Engelberth, Abigail S; Agricultural & Biological Engineering Program, engineering technology, mechanical engineering, materials engineering, from U.S. Department of Energy, $721,745, "Modeling Feedstock Performance and Conversion Operations, Inc, Grant 14000519."


Li, Tongcang; electrical & computer engineering, from Sandia National Laboratories, $75,000, "Levitated Dielectrics and Advanced Proof Masses for Sensors."

Li, Tongcang and Robicheaux, Francis J; electrical & computer engineering, physics & astronomy, from Office of Naval Research, $313,126, "Investigating Surface Interactions with Levitated Optomechanics at the Quantum Limit."

Liceaga, Andrea M; food science, from Simulate, Inc., $1,500, "Multi Sponsored Gift- Sensory."

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

Liceaga, Andrea M; food science, from Gaudet, $3,000, "Multi Sponsored Gift- Sensory."

Liceaga, Andrea M; food science, from Simulate, Inc., $3,000, "Multi Sponsored Gift- Sensory."

Liceaga, Andrea M; food science, from Iovate Health Sciences Inc, $6,000, "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, Stephen R; food science, from CP Kelco US Inc, $3,222, "Consumption of Gellan Oligomers by the Human Gut Microbiome."

Lister, Matthew L; physics & astronomy, from National Aeronautics and Space Administration, $145,690, "Mojave: Probing Acceleration, Magnetic Field Evolution and Gamma-Ray Emission in AGN Jets; Supplement 1."
Long to Okuniewski

Long, Elizabeth Yim and Justus, Emily J; entomology, from University of Minnesota, $13,588, “Assessing Growers’ Knowledge and Use of Insect Resistant Cultivars as Part of an Integrated Pest Management Strategy.”

Long, Elizabeth Yim and Richmond, Douglas Scott; entomology, from Indiana State Department of Agriculture, $58,134, “Developing Best Management Practices for the Asiatic Garden Beetle in Commercial Mint Production.”


Low, Philip S; chemistry, from Morphimmune, Inc, $50,000, “Multi Sponsor - Voluntary Support.”

Low, Philip S; Shahriar, Imrul and Srinivasarao, Madduri; chemistry, from Eradivir, Inc, $70,000, “STTR Phase I: Eradivir’s Therapeutic Molecule for COVID-19.”

Lu, Na; civil engineering, from Trask Trust Fund, $50,000, “Prototyping Piezoelectric Sensing Device for Real-Time Concrete Strength Monitoring.”

Ma, Zhao; forestry & natural resources, from US Forest Service, $10,000, “USDA Forestry Service Seedling Production.”

MacDermid Wadsworth, Shelley; Topp, Dave and Eicher-Miller, Heather A; human development & family studies, Military Family Research Institute Conference, nutrition science, from Robert R. McCormick Foundation, $50,000, “Reaching Rural Veterans in Illinois.”

Mahmoudian, Nina and Rastgaar, Mo; mechanical engineering, engineering technology, from Office of Naval Research, $80,000, “A Modular Undersea Infrastructure for Uuv Delivery and Replenishment.”

Maji, Hemanta K; computer science, from National Science Foundation, $500,000, “SaTC: CORE: Small: Optimal Coin-Flipping Protocols.”

Marshall, Maria I; agricultural economics, from American Soybean Association, $101,221, “Proposal to Develop and Implement a Course on Business Plan Development for Elite Entrepreneurs Fromdeveloping and Emerging Markets.”

Mayer, Theresa Stellwag; Executive Vice President for Research and Partnerships Administration, from Lockheed Martin Corp, $40,000, “Grin Diamond-Like-Carbon (Dlc) Coatings.”

Mayer, Theresa Stellwag; electrical & computer engineering, from Lockheed Martin Corp., $40,000, “Grin Diamond-Like-Carbon (Dlc) Coatings.”

McCann, Maureen C; Agrawal, Rakesh; Huetteman, Carl A; Mosier, Nathan S; Kenttamaa, Hilkka I; Meilan, Richard; Carpita, Nicholas C; Chapple, Clint C S and Ribeiro, Fabio H; biological sciences, chemical engineering, engineering administration, Agricultural & Biological Engineering Program, chemistry, forestry & natural resources, botany & plant pathology, biochemistry, from U.S. Department of Energy, $10,000, “Center for Direct Catalytic Conversion of Biomass to Biofuels (C3Bio) (Grant 14000231).”

McLuckey, Scott A; chemistry, from PHS-NIH National Institute of General Medical Science, $32,750, “Gas-Phase Bio-Conjugation in the Tandem Mass Spectrometry of Peptides, Proteins, and Protein Complexes (Grant 11000826).”

McMillan, Sara K; Agricultural & Biological Engineering Program, from University of Minnesota, $14,838, “Design and Management of on-Farm Wetlands for Water Quality and Climate Regulation.”

Mei, Jianguo; chemistry, from Office of Naval Research, $170,907, “High Temperature Organic Semiconductors, Modification 2; Grant 13000715.”

Meyer, Scott E; mechanical engineering, from InSpace, LLC, $29,930, “INSpace Propulsion System Tank Testing Budget Spring/Summer 2021.”

Miles, Richard D; WBAA Administration, from Corporation for Public Broadcasting, $139,698, “2021 CPB Community Service Grant (Csg).”

Mishra, Dharmendra K; food science, from Keith & Nicole Fleming, $1,000, “Pilot Plant Multi-Sponsored Gift.”

Mishra, Dharmendra K; food science, from Mead Johnson Nutritionals, $8,000, “Indicator Strips for Validation of Filler.”

Moore, Karina Beth; field extension, from Orange Co REMC Fund, Inc, $1,000, “Co-Parenting for Successful Kids.”


Mou, Shaoshuai; aeronautics & astronautics, from Arctos Technology Solutions, LLC, $30,000, “Distributed Multi-Agent Mission Planning in Dynamic Environments.”

Mudawar, Issam; mechanical engineering, from National Aeronautics and Space Administration, $624,938, “Reduced Gravity Experiments to Measure Cryogenic Two-Phase Heat Transfer Coefficients for Future IN-Space Transfer Systems.”

Mukherjee, Partha P; mechanical engineering, from Office of Naval Research, $75,000, “Electrochemical and Transport Evolution Dynamics in Sodium-Sulfur Electrodes (Grant 13000788).”

Mukherjee, Partha P; mechanical engineering, from Nissan Research & Development, Inc., $150,000, “Theoretical Understanding of Effective Interlayer Functions in All-Solid-State Battery with Li-Metal Anode.”

Mull, Casey Downs and Scott, Molley M; Cooperative Extension Service - 4-H, field extension, from National 4-H Council, $16,000, “2021 4-H Ag Innovators Experience Implementation.”

Nagy, Zoltan; chemical engineering, from International Fine Particle Research Institute INC, $14,000, “IFPRI Gift.”

Newton, Ryan R; electrical & computer engineering, from National Science Foundation, $217,08, “SHF:Small: Collaborative Research: Language-Integrated Verification for Deterministic Parallelism.”

Nie, Linda H; health sciences, from University of California - San Diego, $151,096, “Sodium Regulation in Individuals on Known Dietary Sodium Intake (Grant 1100104).”

Okuniewski, Maria A; Harris, Jason T and Tomar, Vikas; materials engineering, health sciences, aeronautics & astronautics, from Idaho National Laboratory, $87,500, “A Reconfigurable Mechanical Properties Testing Vehicle Instrumented with Novel Sensors.”
Pace to Sandhage

**Pace, William M;** Polytechnic South Bend, from enFocus, $187,780, “Technology & Demonstration Center/Studebaker Bldg.”

**Paniagua-Perez, Guillermo;** mechanical engineering, from Office of Naval Research, $100,000, “Modulated Enhancement of Heat Exchangers – MEHEX; Modification 2; Grant I3000770.”


**Pastakia, Sonak D;** pharmacy practice, from New York University, $54,024, “Pt4a (Peers and Technology for Adherence, Access, Accountability, and Analytics).”

**Patton, Aaron J;** horticulture & landscape architecture, from United States Golf Association, $4,000, “Patton Multi Sponsored #2 (Orig 301226).”

**Patton, Aaron J;** horticulture & landscape architecture, from FMC Corporation, $6,000, “Patton Multi Sponsored #2 (Orig 301226).”

**Patton, Aaron J;** horticulture & landscape architecture, from Midwest Regional Turf Foundation, $8,059, “Midwest Regional Turf Foundation.”

**Patton, Aaron J;** horticulture & landscape architecture, from Rutgers State University, $14,282, “Understanding False-Green Kyllinga Biology for Integrated Management in Cool-Season Turf.”

**Patton, Aaron J;** horticulture & landscape architecture, from Midwest Regional Turf Foundation, $33,500, “Turfgrass Research.”

**Phillips, Margaret L and McPherson, Paul B;** libraries administration, engineering technology, from American Society for Engineering Educ, $2,500, “Exploring Standards Access and Education in ET Programs.”

**Piercey, Davin G;** materials engineering, from Office of Naval Research, $177,145, “Enabling Methods in Next-Generation Energetic Materials Synthesis; Modification 2; Grant 13000724.”

**Pinal, Rodolfo;** industrial & physical pharmacy, from Multi-Sponsored Industries, $40,000, “Center for Pharmaceutical Processing Research Consortium.”

**Pittendrigh, Barry Robert;** entomology, from University of Illinois at Champaign-Urbana, $30,000, “I2I - Innovation to Impact.”

**Pol, Vilas G;** chemical engineering, from Office of Naval Research, $121,679, “Scalable Manufacturing of Safer, Energy Dense Li-Ion Batteries for Critical Temperature Defense Application.”

**Pol, Vilas G;** chemical engineering, from Office of Naval Research, $128,321, “Scalable Manufacturing of Safer, Energy Dense Li-Ion Batteries for Critical Temperature Defense Application (Grant 1300106).”

**Pourpoint, Timothee L;** Gore, Jay P; Qiao, Li and Weibel, Justin A; aeronautics & astronautics, mechanical engineering, from Rolls-Royce Corporation, $474,000, “University Technology Center in Advanced Thermal Management Systems at Purdue University (Grant 40002556).”


**Purpura, Ashley M;** interdisciplinary programs, from Interfaith Youth Core, $20,000, “Civic Approaches to Teaching About Religious Diversity in General Education Grant.”

**Qiu, Qiang;** electrical & computer engineering, from University of Massachusetts, $7,500, “CDS&E: Applied Geometry and Harmonic Analysis in Deep Learning Regularization: Theory and Applications Qiu.”

**Rahimi, Rahim;** materials engineering, from IdentifySensors Biologics Corp, $85,860, “Printed Biosensors for Identifysensors” (a Discovery Park award – Birck Nanotechnology Center)

**Ramanathan, Shriram;** materials engineering, from Pennsylvania State University, $115,000, “Center for 3-D Ferroelectric Microelectronics.”

**Raturi, Ankita;** Agricultural & Biological Engineering Program, from Wolfe’s Neck Center, $245,451, “Open Technology Ecosystem for Agricultural Management (Openteam).”

**Ribeiro, Fabio H;** chemical engineering, from Multi-Sponsored Industries, $5,000, “CISTAR Industrial Consortium.”

**Ribeiro, Fabio H;** Agrawal, Rakesh; Gounder, Rajamani P; Greeley, Jeffrey P; Miller, Jeffrey T; Sirola, Jeffrey J and Delgass, W Nicholas; chemical engineering, from National Science Foundation, $110,000, “Engineering Research Center for Innovative and Strategic Transformation of Alkane Resources – CISTAR; Modification 15 (10001437).”

**Ricker-Gilbert, Jacob E;** Burniske, Gary R; Gunaratna, Nilupa S; Shively, Gerald E; Blatchley, Ernest R; Buckmaster, Dennis; Gitau, Margaret W; Harbison, Diana; Huber, Matthew; Jafvert, Chad T; McMillan, Sara K; Raturi, Ankita; Sinfield, Joseph V; van der Mensbrugge, Dominique Y and Walz, Aaron J; agricultural economics, agronomy, public health, international Programs in Agriculture, civil engineering, Agricultural & Biological Engineering Program, Global Engineering Programs, earth, atmospheric, & planetary sciences, agricultural research & graduate education, from Michigan State University, $49,667, “Learning, Analytics and Knowledge Management Support in Kenya and East Africa Region.”

**Ridgway, Kenneth D;** earth, atmospheric, & planetary sciences, from The Blackbaud Giving Fund for Chevron, $3,000, “Cearley Basin Analysis Fund-Voluntary Support.”

**Ridgway, Kenneth D;** earth, atmospheric, & planetary sciences, from James B Cearley III, $5,000, “Cearley Basin Analysis Fund-Voluntary Support.”

**Rogers, Timothy G;** electrical & computer engineering, from University of Michigan, $270,000, “Applications Driving Architectures (Ada) Center - Leveraging Software Engineering Design Principals to Generate Efficient Hardware, Inc, Grant 13000793.”

**Sadeghi, Farshid;** mechanical engineering, from Toyota Motor Manufacturing Inc., $90,000, “Tribology Lab Research (40002987).”

**Sadeghi, Farshid;** mechanical engineering, from Cummins, Inc., $135,000, “Tribology Lab Research, Cummins.”

**Salazar, Kara A;** Illinois-Indiana Sea Grant, from Hoosiers for Renewables, $10,000, “Voluntary Support-Salazar.”

**Sandhage, Kenneth H;** materials engineering, from Virginia Commonwealth University, $206,561, “Mechanisms Mediating Osseointegration of 3-D Printed Titanium Constructs, Amendment 3; Grant 11000849.”
Saraswat to Turco

Saraswat, Dharmendra and Hancock, Benjamin G; Agricultural & Biological Engineering Program, from Indiana Corn Marketing Council, $1,194, “Updating Infield Advantage Web Application-Phase III.”

Savoie, Brett; chemical engineering, from National Science Foundation, $413,174, “CAREER: Chemical Network Based Understanding and Prediction of Electrolyte Decomposition in Batteries.”

Scalo, Carlo; mechanical engineering, from VorCat, Inc, $45,000, “Code-to-Code Verification of Breakdown to Turbulence in Canonical Vortex-Dominated Problems.”

Schwab, Abraham P; Academic Affairs Administration, from University of Indianapolis, $106,507, “Teach Dual Credit Indiana.”

Semperlotti, Fabio; mechanical engineering, from Office of Naval Research, $190,655, “Modification 1: Shape-Memory-Alloy Meta-Composites: Harnessing Material and Topological Phase Transitions to Achieve Resilient and Tunable Lightweight Structures (13000911).”

Shakouri, Ali; computer science, from Multi-Sponsored Industries, $35,000, “Consortium on Printing and Scalable Manufacturing of Aware and Responsive Thin Films (SMART).” (a Discovery Park award – Birck Nanotechnology Center)

Shalaev, Vladimir M; electrical & computer engineering, from University of Michigan, $122,910, “Near-Field Radiative Heat Transfer and Energy Conversion in Nanogaps of Nano- and Meta-Structured Materials; Amendment 3; Grant 13000775.” (a Discovery Park award – Birck Nanotechnology Center)

Shashurin, Alexey and Slipchenko, Mikhail N; aeronautics & astronautics, mechanical engineering, from National Science Foundation, $116,535, “Collaborative Research: Exploring Plasma Dynamics at Femtosecond Laser-Induced Photoionization from Near to Mid-Infrared (Grant 10001500).”

Short, Tonya S; field extension, from University of Illinois at Champaign-Urbana, $130,000, “North Central Farm and Ranch Stress Assistance Center: Engaging Programs to Supplementport Producer Wellbeing.”

Silaaen, Armin K and Walla, Nicholas; Center for Innovation through Visualization and Simulation, from Gerdau Special Steel, $19,619, “Evaluation of Refining Ladle Operations.”

Simpson, Garth J and Taylor, Lynne S; chemistry, industrial & physical pharmacy, from Center for Bioanalytic Metrology, $50,000, “Phase Separation in Pharmaceutical Formulations by Two-Photon Excited Uv Fluorescence Correlation Spectroscopy.”

Slabaugh, Carson D; aeronautics & astronautics, from Office of Naval Research, $100,000, “X-Ray Radiography System for Spatio-Temporally Resolved Solid Fuel Regression Measurements.”

Slabaugh, Carson D; aeronautics & astronautics, from Office of Naval Research, $160,290, “Transport Physics in Reacting Turbulent Boundary Layers, Modification 1; Grant 13000875.”

Snow, Lowell D; Technical Assistance Program/ Manufacturing Extension Partnership, from CenterPoint Energy Foundation, $150,000, “Purdue MEP Opportunity in Manufacturing Initiative.”

Snyder, Margie E and Murawski, Matthew M; pharmacy practice, from PHS-NIH National Institute Allergy Infectious Disorders, $134,133, “Resilient Self-Healing Transformers.”

Sohal, Ikjot Singh; Kasinski, Andrea L; Low, Philip S and Ratliff, Timothy L; biological sciences, chemistry, comparative pathobiology, from US Army Medical Res Acquisition, $465,000, “Ligand-Targeted miRNA Delivery for Prostate Cancer Therapy.”

Solorio, Luis; biomedical engineering, from Institute of International Education, $2,000, “IIE Gire Advisor Payment.”

Son, Steven F; mechanical engineering, from National Aeronautics and Space Administration, $33,770, “High-Frequency Surface and Near-Surface Temperature Measurements of Burning Solids - Fellowship for Westphal, Inc, Grant 12000207.”

Son, Steven F and Rhodes, Jeffrey Frederick; mechanical engineering, from Next Offset Solutions, $13,211, “Embrs: Energetic Material Battery and Reserve Power Systems.”

Stahelin, Robert V; medicinal chemistry & molecular pharmacology, from PHS-NIH National Institute Allergy Infectious Disorders, $251,250, “Investigation of the Role of Phosphatidic Acid Metabolism in Filovirus Budding; Amendment 1; Grant 11000982.”

Su, Jianxi; statistics, from Casualty Actuarial Society, $18,000, “Spatial Temporal Modeling of Wildfire Losses with Applications in Insurance Linked Securities Pricing.”


Sun, Wei; quantitative methods, from Office of Naval Research, $16,114, “Statistical Theory and Method of Large Tensor Data (Grant 13000667).”

Taylor, Lynne S; industrial & physical pharmacy, from Merck Sharp & Dohme Corp, $106,729, “Microprecipitation to Produce Amorphous Formulations.”

Thompson, Michelle S and Horgan, Brony H; earth, atmospheric, & planetary sciences, from National Aeronautics and Space Administration, $120,544, “Investigating the Role of Sulfides and Fe-Oxide Minerals in the Space Weathering of Asteroidal Regoliths (Grant 12000382).”

Tomar, Vikas and Adams, Thomas E; aeronautics & astronautics, nuclear engineering, from Naval Surface Warfare Center Indian Head Division, $150,000, “Naval Education Ecosystem Design for Battery Pack Agnostic Intelligent Battery Management Systems [Grant 13000873].”

Tormoehlen, Roger L; Agricultural & Biological Engineering Program, from John Deere US Ag, $2,500, “Multi Sponsored Gift.”

Tremblay, Marissa Marie; earth, atmospheric, & planetary sciences, from American Chemical Society, $110,000, “Investigating the (U-Th)/He Systematics of Gar Scales and its Potential for Basin Thermal History Reconstruction.”

Trice, Rodney W and Martinez, Carlos J; materials engineering, from Office of Naval Research, $120,718, “Design and Evaluation of Rare-Earth Co-Stabilized Cubic Zirconia for Hypersonic Flight, Modification 1; Grant 13000876.”

Turco, Ronald F; agronomy, from University of Wisconsin, $185,000, “Linking Soil Health Assessment to Edge-of-Field Water Quality in the Great Lakes Basin- Project Continuation.”
Ursem to Zikas

Ursem, Michael D; engineering administration, from Engineering & Industrial Services, LLC, $1,500, "Services Agreement for Engineering & Industrial Services, LLC - Project 1, Cam Assistance."

Varma, Amit H and Seo, Jungil; civil engineering, from Veolia Water Technologies, Inc., $150,000, "Experimental and Numerical Evaluation of Reinforced Concrete Pier and Pass-through Connection of Kcl-3 Structure - Phase III."

Wang, Nien-hwa L; chemical engineering, from Medallion Research USA, Inc., $450,000, "Testing of Ligand-Assisted Chromatography Methods for Producing High-Purity Rare Earth Elements from Feedstocks Derived from Monazite and Other Minerals."

Weber, Zachary A; pharmacy practice, from Indiana University, $50,613, "IU Mou."

Wei, Alexander; chemistry, from Sartorius Stedim North America, $74,000, "Design of Non-Enzymatic Lactate Sensor on Flexible Substrates for Single-Use Systems."

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

Weiner, Andrew M; electrical & computer engineering, from Freedom Photonics, LLC, $95,000, "Quantum All-Optical Transponder (Qoat)."

Weiner, Andrew M and Qi, Minghao; electrical & computer engineering, from Sandia National Laboratories, $61,012, "Trapped-Ion Clock with Photonic Technologies on Chip (Tictoc) (Grant 14000437)."

Wharry, Janelle P; materials engineering, from National Science Foundation, $70,842, "Collaborative Research: Tunable Control of Mixed Ionic and Electronic Conductivity through Ion Irradiation in Electroceramic Materials for Energy Storage System."

Whelton, Andrew J; Proctor, Caitlin Rose and Robinson, Joseph Paul; civil engineering, Agricultural & Biological Engineering Program, basic medical science, from National Science Foundation, $16,000, "REU Supplementment: Shutdowns and Consequences - Extreme Plumbing Stagnation and Recommissioning."

Wilcox, Michael D and Adams, Nicole; Cooperative Extension Service, nursing, from University of Wisconsin-Madison, $40,000, "A Protocol for Community Action to Address Substance Use."

Wilker, Jonathan J; chemistry, from Office of Naval Research, $112,519, "Year 3 Funding: Making Higher Performance Adhesives that Are Charged, Debondable, and Tough (13000749)."

Won, You-Yeon; chemical engineering, from Spirrow Therapeutics LLC, $67,500, "COVID-19: Acute Respiratory Distress Syndrome Polymer Surfactant Therapy."

Woolcock, Andrew D; Roque-Torres, Janet Lazara; Da Silva Serpa, Priscila Beatriz; Moore, George E and Pires dos Santos, Andrea; veterinary clinical sciences, comparative pathology, veterinary medicine administration, from American College of Veterinary Internal Medicine Foundation, $3,010, "Effect of Ascorbic Acid and Alpha-Tocopherol on Oxidative and Storage Lesions in CANINE Packed Red Blood Cells."

Xu, Dongyan; computer science, from Office of Naval Research, $200,000, "Towards Transformation-Based Legacy Software Fitness: Usage-Driven Binary Debloating and Hardening (Phase II)."

Xu, Dongyan; computer science, from Office of Naval Research, $1,821,488, "IoT-D: Towards Internets of Dialect-Speaking Things."

Yang, Danzhou; medicinal chemistry & molecular pharmacology, from PHS-NIH National Cancer Institute, $368,375, "Nucleolin Recognition of MYC Promoter G-Quadruplex and its Role in MYC Regulation by MycG4-Ligands; Amendment 1; Grant 11000988."

Young, Bryan G; botany & plant pathology, from Marksberry Law Office, LLC, $3,000, "Weed Science Research Voluntary Supplementort."

Yu, Denny; Hornbeck, Tera M; Adibuzzaman, Mohammad and Haque, MD Munirul; industrial engineering, nursing, from National Science Foundation, $16,000, "Research Experiences for Undergraduates (REU) for Fw-Htf-P: Physiological Sensing to Enable Expert Decisionmaking in Healthcare (Grant 10001616)."

Zhang, Lei; botany & plant pathology, from University of Arkansas, $18,365, "Influence of Plant Elicitor Peptides on Plant Defense, Plant Fitness, and Productivity."

Zhang, Xiangyu; computer science, from Perspecta Labs, $343,328, "Abs: an Analytic Approach to Scanning Neural Networks for Back-Doors by Artificial Brain Stimulation (Gant 13000916)."

Zhang, Zhong-Yin; medicinal chemistry & molecular pharmacology, from National Institutes of Health, $429,035, "Development of SHP2 Inhibitors for Targeted Anti-Cancer Therapy (Grant 1100580)."

Zhou, Chenn Qian; Center for Innovation through Visualization and Simulation, from Gerdau Special Steel, $25,000, "Steel Manufacturing Visualization and Simulation Consortium (SMVSC) Membership."

Zhou, Chenn Qian; Center for Innovation through Visualization and Simulation, from SSAB Americas Research and Development, $45,000, "Steel Manufacturing Visualization and Simulation Consortium (SMVSC) Membership."

Zikas, Vasileios; computer science, from National Science Foundation, $400,000, "Collaborative Research: SaFC: CORE: Medium::from Distributed Cryptography to Blockchain and Back."

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.