Abbott to Brightman

Abbott, Angela R and Jaramillo, Chelsie A: health and human sciences administration, nutrition science, from Indiana Campus Compact, $1,200, "Strengthening Communities: Food Distribution, Safety, and Student Engagement."

Abdel-Khalik, Hany S: nuclear engineering, from Ohio State University, $67,199, "Big Data for Operation and Maintenance Cost Reduction; Amendment 2, Grant 14000482."

Ackerson, Jason P; Penn, Chad J and Williams, Mark R: agronomy, agricultural & biological engineering, from Agricultural Research Service, $315,000, "Assessing Legacy Phosphorus Losses from Fields and Watersheds in the Western Lake Erie Basin."

Adeola, Olayiwola: animal sciences, from DSM Nutritional Products, Inc., $122,730, "The Impact of a Second-Generation Protease on Digestible Amino Acid Content of Soybean Meals in Broiler Chickens."

Aime, Mary Catherine: botany & plant pathology, from Agricultural Research Service, $100,000, "Eradication and Bacterial Metagenomics of Globodera."

Aime, Mary Catherine: botany & plant pathology, from National Geographic Society, $2,400, "A Citizen Science-Powered Mycobiota for North America?"


Allebach, Jan P: electrical & computer engineering, from HP Inc, $75,000, "Industrial Inspection."

Allen-Petersen, Brittany Lee: biological sciences, from PHS-NIH National Cancer Institute, $174,844, "The Role of PP2A B56a in Pancreatic Tumorigenesis."

Anderson, Theresa M: animal sciences, from North Carolina A&T University, $15,000, "Impact of Moringa Oleifera Supplementation on Sow and Piglet Performance."

Armstrong, Shalamar D: agronomy, from Natural Resources Conservation Service, $50,000, "CNMP State Template Development."

Baldos, Urs Lantz C and Hertel, Thomas W: agricultural economics, from University of Minnesota, $67,197, "Extension of Global Futures Project with World Bank and UMN."

Bane, Sally P M; Macheret, Sergey O; Meyer, Terrence R; Poggie, Jonathan and Satija, Aman: aeronautics and astronautics, mechanical engineering, from U.S. Department of Energy, $155,717, "Evolution of Temperature Perturbations Generated by Nanosecond Repetitively Pulsed Plasmas – High-Resolution Measurements and Modeling."

Bartholomew, Sarah and Lane, Sean P: psychological sciences, from PHS-NIH National Institute of Mental Health, $732,034, "Biobehavioral Validation of the ADHD Emotion Dysregulation Phenotype."

Baxmeyer, Adam W: Airport Operations, from Federal Aviation Administration, $746,200, "Acquisition of Aircraft Rescue and Fire Fighting (ARFF) Vehicle."


Beaulieu, Lionel J; Wallenda, Robert; Kumar, Indraneel and Cruz-Porter, Annie K: Purdue Center for Regional Development, Cooperative Extension Service, from Economic Development Administration, $300,000, "CARES Act Supplemental EDA University Center Funding – Recovery Assistance."

Beck, Alan M; Yatcilla, Jane F and Charles, Christopher C: comparative pathobiology, libraries administration, from Human Animal Bond Research Initiative Foundation (HABRI), $151,767, "Human Animal Bond Research Initiative Digital Library (HABRI Central) – Bridge Funds."

Bentley, Robin T: veterinary clinical sciences, from University of Alabama at Birmingham, $38,457, "CANINE (Canine Immunoneurotherapeutics Trial)."

Bhunia, Arun K: food science, from Biomatrix Inc, $6,250, "Shuttleworth North America."

Bigelow, Cale A: horticulture & landscape architecture, from Syngenta Seeds, Inc., $11,250, "30000896 Syngenta."


Biswas, Rudro R: physics & astronomy, from Sandia National Laboratories, $3,703, "Reversible Computing Academic Alliance."


Borovsky, Arielle: speech, language & hearing sciences, from Boston University, Trustees of, $13,924, "Development of Gaze Control for Integration of Language and Visual Information in Deaf Children."

Brightman, Andrew O: biomedical engineering, from Indiana University Purdue University at Indianapolis, $38,395, "2020-21 Joint PhD Program Graduate Support – Rachel Kohler."

Brightman, Andrew O: biomedical engineering, from Indiana University Purdue University at Indianapolis, $45,725, "NRSA Training Core. (a Discovery Park award – Bindley Bioscience Center)"

Brightman, Andrew O: biomedical engineering, from Indiana University Purdue University at Indianapolis, $34,619, "2020-21 Joint PhD Program Graduate Support – Yizhi Jiang."
Brightman to Eisenbaumer

Brightman, Andrew O; biomedical engineering, from Indiana University Purdue University at Indianapolis, $69,115, "NRS Training Core." (a Discovery Park award – Bindley Bioscience Center)

Buckmaster, Dennis; agricultural & biological engineering, from Microsoft Corporation, $20,000, "404335 Microsoft Corp."

Buczkowski, Grzegorz A; entomology, from BASF Corporation, $6,000, "Vedara Ant Gel Bait (20MEJ001)."

Buczkowski, Grzegorz A; entomology, from BASF Corporation, $6,000, "Vedara Ant Gel Bait (20MEJ002)."

Buczkowski, Grzegorz A; entomology, from BASF Corporation, $4,000, "Vedara Ant Gel Bait (20MEJ017)."

Bullock, Darcy M; civil engineering, from Indiana Department of Transportation, $500,000, "SPR 4251 – Probe Data to Support Research and Implementation."

Bullock, Darcy M; civil engineering, from Indiana Department of Transportation, $90,000, "Enhanced Traffic Signal Performance Measures, Increase 21000232."

Cannon, Jason R; Lee, Linda S and Sepulveda, Maria Soledad; health sciences, agronomy, forestry & natural resources, from PHS-NIH National Institute on Aging, $223,986, "PFOS-Induced Dopaminergic Neurodegeneration Across Nematode, Amphibian, and Rodent Models."

Catlin, Ann Christine and Hewa Nadungodage, Chandima P; IT Research Computing, from International Thymic Malignancy Group, $8,400, "ITMIG Platform Migration to Curie Hospital System."

Channon, Robert; language & culture, from Indiana University, $3,000, "Post-Soviet Russian Cinema."

Chavas, Daniel R; earth, atmospheric, and planetary sciences, from National Aeronautics and Space Administration, $45,000, "Using Multi-Source Satellite Observations to Investigate the Asymmetric Seasonal Cycle of Severe Local Storm Environments Over North America."

Chawla, Nikhilesh; materials engineering, from Office of Naval Research, $204,444, "Four Dimensional (4D) X-Ray Microtomography of Stress-Corrosion Cracking in High Performance Metallic Materials."

Chawla, Nikhilesh; materials engineering, from Arizona State University, $155,793, "4D Characterization of Electromigration-Induced Damage of Environmentally-Benign Interconnects: X-Ray Tomography Experiments and Phase-Field Simulations."

Chen, Yingjie; Jiang, Wen; Sors, Thomas G and Watson, William R; computer graphics technology, biological sciences, curriculum & instruction, from National Institutes of Health, $25,784, "Virtual Reality Augmented Hands-on Cryo-EM Training."

Chen, Yong P; electrical & computer engineering, from National Science Foundation, $117,157, "Quantum Many-Body Physics in Spin-Orbit Coupled Bose Gases." (a Discovery Park award – Birck Nanotechnology Center)

Choi, Jong Hyun and Mao, Chengde; mechanical engineering, chemistry, from National Science Foundation, $492,251, "Experimental and Computational Mechanics of 3-D DNA Crystals."

Christian, John A; comparative pathology, from Western University of Health Sciences, $13,195, "Cytology Resource Center (40001198)."

Chynoweth, Brandon C and Schneider, Steven P; aeronautics and astronautics, from Air Force Research Laboratory, $4,844,000, "Completion of Quiet Ludwieg Tube Wind Tunnels at Mach 8."

Collicott, Steven H; aeronautics and astronautics, from National Aeronautics and Space Administration, $241,095, "Small-Sat Propellant Management Technology."


Courtney, Andrea L; public health, from Johns Hopkins University, $6,900, "Multi Sponsor."

Creswell, Tom C; botany & plant pathology, from Michigan State University, $42,500, "National Plant Diagnostic Network – North Central Region 2020-21."

Deering, Amanda J; food science, from Antibact Film LLC, $618, "Multi Sponsored Gift Account."

DeLaurentis, Daniel A; Sun, Dengfeng; Goppert, James Michael; Hwang, Inseok and Mou, Shaoshuai; aeronautics and astronautics, from North Carolina A & T University, $513,498, "Secure and Safe Assured Autonomy (Thrust 6 – Assured Autonomy of Aviation Transformation)."


DeLaurentis, Poching C; industrial engineering, from AAMI Foundation, $50,000, "An Informatics-Driven, Intelligence Powered Dashboard for Infusion Safety Advancement."

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

Deng, Qing; biological sciences, from PHS-NIH National Institute of General Medical Science, $240,000, "Role of MicroRNAs in Neutrophil Migration."

Dey, Tamal Krishna; computer science, from National Science Foundation, $350,000, "AF: Small: Expanding the Reach of Topological Data Analysis."

Dietz, James Eric; computer information technology, from General Dynamics Information Technology Inc, $242, "Technical Instruction and Evaluation for Automating Navy STIG/Cybersecurity (Grant 13000932)."

Dyke, Shirley J and Ramirez, Julio Alfonso; mechanical engineering, civil engineering, from Indiana Department of Transportation, $197,291, "SPR-4526: Predictive Analytics for Quantifying the Long-Term Cost of Defects During Bridge Construction."


Eise, Jessica A; communications, from National Science Foundation, $71,146, "EAGER: Clim y Cafa: A Climate Change Adaptation Website for Policy and Production Decision-Making Support in Colombian Agriculture."

Eisenbaumer, Ronald L; Fort Wayne Chancellor Administration, from U.S. Department of Education, $2,794,652, "HEERF - CARES Act Institutional Portion – PFW."
Engel to Hook

Engel, Bernard A; agricultural administration, from Agricultural Research Service, $35,500, “Acquisition of Goods and Services.”

Erasmus, Marisa A; animal sciences, from Agricultural Research Service, $5,126, “Effects of Probiotics and Synbiotics on Skeletal Health in Broiler Chickens.”

Feikes, David J; Kafle, Bir B and Walker, William S; mathematics, statistics & computer science, education administration, from National Science Foundation, $299,993, “Thinking with Algebra (TWA).”

Ferraro, Kenneth F and Thomas, Patricia A; sociology, from PHS-NIH National Institute on Aging, $531,573, “Childhood Misfortune and Adult Health Among Black, White, and Hispanic Americans (Grant 11000970).”


Finley, John P; physics & astronomy, from Rolf or Mary Jane Scharenberg, $132,000, “Voluntary Support.”


Ghosh, Arun K; medicinal chemistry & molecular pharmacology, from Kumamoto University, $75,963, “Design and Synthesis of Novel Compounds Such as Nucleoside Analogs that Exert Potent Activity Against HBV and Other Human Pathogenic Viruses.”

Gleich, David F; computer science, from National Science Foundation, $499,998, “III: Small: Nonlinear Processes for Detailed and Principled Insight into Graph Data.”

Goerger, Craig J and Damen, Frederick W; biomedical engineering, from PHS-NIH National Heart, Lung & Blood Institute, $50,466, “Spatial Analysis of Cardiac Disease Using Murine Four-Dimensional Ultrasound (Grant 11000910).”

Golub, Alla A; agricultural economics, from Virginia Tech, $2,405, “Agricultural Economics and Commercial Spectrum Usage.”

Gomez, Luis Javier; electrical & computer engineering, from PHS-NIH National Institute of Mental Health, $222,983, “Accurate and Reliable Computational Dosimetry and Targeting for Transcranial Magnetic Stimulation.”

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

Guan, Wenjing; horticulture & landscape architecture, from United AgriSeeds, $350, “General Research Activities.”

Guan, Wenjing; horticulture & landscape architecture, from HM Clause Inc, $1,500, “30001156 HM Clause Inc.”

Haddock, John E; civil engineering, from Indiana Department of Transportation, $342,976, “Review of Indiana Asphalt Binders: In-Situ PG Grade Asphalt Determination.”

Haddock, John E; civil engineering, from Indiana Department of Transportation, $250,000, “2020/2021 Increase: Asset Management for Indiana Local Agencies (20000192).”

Hamilton, Roy L; Educational Opportunities Program, from U.S. Department of Education, $40,000, “PNW Educational Talent Search- Westville Campus (Supplemental Funding).”

Handa, Avtar Krishan; horticulture & landscape architecture, from Agricultural Research Service, $104,078, “Discerning the Polyamine Roles in the Biotic and Abiotic Stress Biology of Plants.”

Harbin, Sherry L; basic medical science, from National Institutes of Health, $184,675, “Interdisciplinary Bioengineering Training for Diabetes Research.”

Hardiman, Brady S; environmental & ecological engineering, from Purdue University Frederick N. Andrews Fellowship, $34,697, “Hardaway,Kanaan,C.”

Hartman, Nathan W; computer graphics technology, from Cummings, Inc., $50,000, “Product Lifecycle Management Center of Excellence (PLM).”

Heinz, Michael G and Viswanathan, Vibha; speech, language & hearing sciences, from PHS-NIH National Institute on Deafness and Other Communication Disorders, $45,520, “Neurophysiological Mechanisms of Speech Intelligibility in Noise – A Quantitative Framework (Grant 11000756).”


Henderson, Jason R; agricultural administration, from National Institute of Food & Agriculture, $382,400, “Advancing Agrosecurity and Community Resilience through Collaboration, Capacity-Building and Extension Program Innovation.”

Hertel, Thomas W; Asencio, Raquel and Song, Xiaohui Carol; agricultural economics, organizational behavior and human resources management, Purdue Climate Change Research Center, from National Science Foundation, $1,999,991, “AccelNet: GLASSNET: Networking Global Informed Analyses to Inform Sustainable Investments in Land and Water Resources.”

Hill, Michael A; Center for Environmental and Regulatory Information Systems, from Animal Plant Health Inspection Service, $21,252, “Notify- a-Clearinghouse for Nursery Shipment Notifications to State Plant Regulators.”

Hill, Michael A; Center for Environmental and Regulatory Information Systems, from Animal Plant Health Inspection Service, $34,000, “NPDN Analysis -Making Diagnostic Lab Data Available to a Wider Audience.”

Hoffmann, Stephen R; chemistry, from Ross Graduate Fellowship-Assistantship, $31,668, “Sahoo,Sumeet Ranjan.”

Holford, Kenneth C; Vice Chancellor for Academic Affairs Administration, from U.S. Forest Service, $70,000, “Support for the Northwest Indiana Urban Waters Ambassador Position.”

Howell to Klimeck

Howell, Kathleen; aeronautics and astronautics, from National Aeronautics and Space Administration, $11,800, "A Numerical Method to Generate Reference Trajectories for Optimization Methods to Support Low-Thrust Mission Design - Sup 6 for Grant #12000176."

Howell, Kathleen; aeronautics and astronautics, from National Aeronautics and Space Administration, $60,000, "Design, Targeting and Guidance Strategies in Complex Multi-Body Regimes Incorporating Low-Thrust Capabilities (1200260)."

Hrycyna, Christine A; chemistry, from National Science Foundation, $36,651, "Collaborative Research: Mechanism of Ste24, a Novel Integral Membrane Zinc Metalloprotease that Promotes Catalysis within an Intramembrane Chamber (Grant 10001534)."

Hrycyna, Christine A; chemistry, from National Science Foundation, $274,656, "Collaborative Research: Chemistry in the Arctic: Clouds, Halogens, and Aerosols (CHACHA)."


Huang, Rong; medicinal chemistry & molecular pharmacology, from PHS-NIH National Institute of General Medical Science, $372,888, "Protein N-Terminal Methylation Mechanisms and Inhibition (Grant 11000620)."

Huber, Jessica E; Kiefer, Brianna R; Ostaneck, Kristine M and Gutmann, Michelle L; health & human sciences administration, speech, language & hearing sciences, human development and family studies, speech, language & hearing sciences, Speech Clinic Recharge, from PHS-NIH National Institute on Deafness and Other Communication Disorders, $45,520, "Effectiveness of Expiratory Muscle Strength Training for Improving Communication in ALS."

Hudmon, Karen S; pharmacy practice, from PHS-NIH National Cancer Institute, $320,806, "Advancing the Role of Pharmacy in Tobacco Cessation; Modification 1; Grant 11000929."

Iyer-Pascuzzi, Anjali; botany & plant pathology, from Binational Agricultural Research & Development, $50,000, "Elucidating the Cross-Talk Between Root Microstructure and Soil Borne Pathogens."


Jagannathan, Suresh and Grama, Ananth Y; computer science, from National Science Foundation, $1,475,000, "Leveraging Symbolic Representations for Safe and Assured Learning; Modification 2; Grant 1300799."

Jesiek, Brent K and Zoltowski, Carla B; engineering education, electrical & computer engineering, from National Science Foundation, $174,983, "Collaborative Research: Early Career Engineers’ Views of Ethics and Social Responsibility: Trends, Influences, and Contexts."

Jewell, Joseph S and Chynoweth, Brandon C; aeronautics and astronautics, from Sandia National Laboratories, $45,845, "Measurements in a Forward Facing Cavity Under Quiet and Noisy Flow."

Jin, Jian; agricultural & biological engineering, from University of Nebraska-Lincoln, $51,329, "TGCM: (T)Rait, (G)Ene, and (C)Rop Growth (M)Odel Directed Targeted Gene Characterization in Sorghum; Amendment 1; Grant 14000479."

Johnson, William G; botany & plant pathology, from Monsanto Company, $19,500, "Weed Science Research Voluntary Support."

Johnson, William G; botany & plant pathology, from Ita1pollina USA, $9,600, "Weed Science Research Voluntary Support."

Johnson, William G and Young, Bryan G; botany & plant pathology, from United Soybean Board, $340,828, "Take Action – Multi State Herbicide Resistant Crops and Weeds Educational Program."

Johnson, William G; botany & plant pathology, from Nufarm Americas Inc., $4,000, "Weed Science Research Voluntary Support."

Jung, Changhee; computer science, from National Science Foundation, $109,058, "CAREER: Rethinking Hpc Resilience in the Exascale Era (Grant 10001614 Amend #2)."

Karcher, Darrin M; animal sciences, from Agricultural Research Service, $15,000, "Cage-Free Pullet Density: Challenges in the Field."

Kazemian, Abdolmajid; biochemistry, from PHS-NIH National Institute of General Medical Science, $381,824, "Dissecting Host-Pathogen Interactions through the Lens of Genomics."

Keegan, Patrick Joseph and Vaughan, Kelly P; education & counseling, from Indiana Campus Compact, $2,500, "Preparing Civic Educators in Politically Polarizing Times."

Kenttamaa, Hilrika I; chemistry, from Merck & Company Inc., $50,000, "Development of an IMR MS Approach for Nitrosoamines."

Kenttamaa, Hilrika I and Pourpoint, Timothee L; chemistry, aeronautics and astronautics, from C3 Propulsion, $9,999, "Determine the Composition of NSHEHN-B by Using Proton and Carbon NMR and Mass Spectrometry."

Keon, Thomas L; Chancellor Administration, from U.S. Department of Education, $2,912,499, "HEERF – CARES Act Institutional Portion _ PNW."

Kever, Shubitha S; Trio Programs, from U.S. Department of Education, $8,856, "Purdue Fort Wayne Trio SSS – Regular."

Key, Nicole L; mechanical engineering, from Duke University, $124,000, "Enhanced Physical Understanding of Forced Response, Inlet Distortion, and Blade Row Interactions in the Purdue 3-Stage Compressor."


Kim, Tae Yoon; biochemistry, from PHS-NIH National Institute of General Medical Science, $426,648, "Universal Roles of Force Generation and Transmission in Biological Systems (Grant 11000645)."

Kimbrough, Adam J; basic medical science, from PHS-NIH National Institute on Alcohol Abuse, $249,000, "Network Wide Analysis of Brain Activity Involved in Alcohol Withdrawal."

Kinzer-Ursem, Tamara L; biomedical engineering, from Summer Science Program, $57,403, "Voluntary Support – T. Kinzer-Ursem."

Klimeck, Gerhard; Strachan, Alejandro H and Zentner, Lynn K; electrical & computer engineering, materials engineering, from National Science Foundation, $2,400,000, "Network for Computational Nanotechnology – Cyber Platform (Grant 10000719)."
Krause to Martinez

Krause, Jane E: pharmacy practice, from Coalition for a Drug Free Tippecanoe County, $2,900, "Addressing Alcohol and Prescription Drug Abuse/Misuse on Campus: a Continuing Project."

Krogmeier, James V and Haddock, John E: electrical & computer engineering, civil engineering, from Indiana Department of Transportation, $253,570, "SPR-4521: Comprehensive Pavement Patching Tools and Web-Based Software for Pavement Condition Assessment and Visualization."

Kumar, Indraneel and St. Germain, Benjamin D: Purdue Center for Regional Development, from Browning Investments, $1,500, "Comparative Analysis of Three Metropolitan Areas in IL and IN."

Lane, Sean P; Hennes, Erin P; Proctor, Robert W; Song, Xiaohui Carol and Zhao, Lan: psychological sciences, IT Research Computing, from PHS-NIH National Institute on Alcohol Abuse, $671,748, "Toward a Generalized Framework and Flexible Software Environment for Power Analysis of Alcohol Treatment Randomized Controlled Trials (Grant 11000771)."

Lang, Rafael F: physics & astronomy, from U.S. Department of Energy, $72,000, "Infrared Light for Liquid Xenon TPCs."


Lee, Sunghwan: engineering technology, from National Science Foundation, $84,842, "P-Type Oxides for CMOS Devices: Thermodynamics-Based In-Situ Synthesis and In-Situ Integration (Grant 10001491)."


Lin, Dennis Kj: statistics, from Purdue University Frederick N. Andrews Fellowship, $31,668, "Kang, Taegyu."

Lin, Dennis Kj: statistics, from Purdue University Frederick N. Andrews Fellowship, $19,916, "Shih, Frank."


Lin, Guang: mechanical engineering, from Brown University, $125,000, "Fractional PDEs (FPDEs) for Conservation Laws and Beyond – MURI One-Year Extension Proposal 2020."

Lindemann, Stephen R: food science, from Olipop Microbiome R & D, $7,000, "Testing Agreement for Olipop, Inc."

Lindshield, Stacy M; Flaherty, Elizabeth A and Reibman, Amy R: anthropology, forestry & natural resources, electrical & computer engineering, from National Science Foundation, $374,714, "Collaborative Research: the Ecological Basis of Hunting and Meat Sharing in Female Savanna Chimpanzees."

Linnes, Jacqueline C: biomedical engineering, from Gordon and Betty Moore Foundation, $675,000, "Paperfluidic Platform for Rapid and Sensitive Point-of-Care Disease Detection."

Liu, Baiying: mathematics, from National Science Foundation, $114,653, "CAREER: Automorphic Forms and the Langlands Program (Grant 10001474)."

Liu, Xing: biochemistry, from PHS-NIH National Institute of General Medical Science, $376,148, "Regulatory Mechanism of Cullin-Ring Ubiquitin Ligases."


Low, Philip S: chemistry, from PHS-NIH National Institute of General Medical Science, $448,996, "Regulation of Erythrocyte Function (Grant 11000641)."

Lyutikov, Maxim Y: physics & astronomy, from National Aeronautics and Space Administration, $59,997, "3-D Hybrid Rmhd Modeling of Stellar and Pulsar Wind Interaction in Gamma Ray Binaries."

Lyutikov, Maxim Y: physics & astronomy, from National Aeronautics and Space Administration, $50,000, "Pulsars and Wind Nebulae: from Coherent Radio, to X-Rays, to Gamma-Rays (Grant 12000243)."


Ma, Jianxin: agronomy, from United Soybean Board, $53,272, "Characterization and Utilization of New Sources of Drought Tolerance for Soybean Improvement."


Main, Joyce B: engineering education, from University of San Diego, $29,717, "A Mixed Methods Study on How Military Experiences Contribute to Educational Pathways Toward Engineering Bachelor’s Degrees in the U.S."

Main, Joyce B: engineering education, from University of San Diego, $2,750, "Collaborative Research: Military Veteran Students’ Pathways in Engineering Education."

Makin, Maria Cristina: biomedical engineering, from Lynn Interdisciplinary Graduate Fellowship, $31,667, "Vaughn, Brenna Renee."

Mao, Chengde: chemistry, from Merck Sharp & Dohme Corp, $50,000, "AFM Imaging of Pneumococcal Polysaccharides and Polysaccharide-Protein Conjugates."

Marais, Karen; Cutter, Jason E and Dillman, Brian G: aeronautics and astronautics, aviation & transportation technology, from Federal Aviation Administration, $185,000, "Project #5: Safety Analysis for General Aviation – Loss of Control."

Marshall, Maria I and Wilcox, Michael D: agricultural economics, Cooperative Extension Service, from National Institute of Food & Agriculture, $474,880, "Purdue University’s Proposal to Host NCRCD."

Martinez, Carlos J and Betancourt Jimenez, Daniela: materials engineering, from Old Dominion University Research Foundation, $12,000, "Use of Enhanced PCM Microcapsules to Melt Ice and Snow on Airport Pavements."

Purdue University Sponsored Program Awards — September 2020
Matei to Ramani

Matei, Sorin Adam; liberal arts administration, from University of Illinois at Champaign-Urbana, $20,000, "Humanities without Walls Seed Funding."

Mei, Jionguo; chemistry, from Ambilight, Inc, $439,798, "Scalable Synthesis of Electroactive Polymers and Fabrication of Their Thin Films."

Mengiste, Tesfaye D; botany & plant pathology, from Rural Development Administration, $20,991, "Esranding Epigenetic Control of Plant Immunity for New Biomaterials."

Meyer, Scott E; mechanical engineering, from Blue Origin, LLC, $90,143, "Blue Origin H2O2 Thruster Testing."


Meyers, Stephen Lawrence; horticulture & landscape architecture, from Ross Graduate Fellowship-Assistanship, $31,668, "Caputo, Tatielen De Fatima Maraf."

Mishra, Dharmendra K and Kurdela, Erik S; food science, from Food and Drug Administration, $9,660, "Training and Pilot Processing Laboratory Services for Food Processing Technology Courses."

Mohammadi, Mohsen; agronomy, from Agricultural Research Service, $102,798, "Genetic Improvement of Grain Yield and Disease Resistance in Wheat."

Moreland, John R; Toth, Kyle A and Zhou, Chenn Qian; Center for Innovation through Visualization and Simulation, from AIST Foundation, $20,000, "ARMSS: Augmented Reality Maintenance and Safety System."

Morita-Mullaney, Patricia M; curriculum & instruction, from U.S. Department of Education, $395,003, "Leveraging the Lectura y Lenguaje: a Collaborative Scale Up of Literacy and Language in Indiana Schools; Amendment 4; Grant 19100058."

Morita-Mullaney, Patricia M; Chiu, Ming Ming and Wright, Wayne E; curriculum & instruction, educational studies, from U.S. Department of Education, $446,038, "Project PUEDE: Parent and Professional Understanding for Equity in Dual Language Education; Amendment 4, Grant 19100059."

Nagy, Zoltan; Reklaits, Gintaras V and Thompson, David H; chemical engineering, chemistry, from Food and Drug Administration, $975,988, "Risk-Based Process Synthesis and Industry 4.0 Framework for Pharmaceutical Manufacturing Processes."

Noinaj, Nicholas; biological sciences, from Georgia State University, $116,250, "Neisseria Gonorrhoeae Metal Transporters that Subvert Nutritional Immunity (Grant II000865)."


Olson, Stephanie Leigh; earth, atmospheric & planetary sciences, from National Aeronautics and Space Administration, $160,024, "Olson – Assessing Atmospheric Seasonality as an Exoplanet Biosignature."

Olson, Stephanie Leigh; earth, atmospheric & planetary sciences, from National Aeronautics and Space Administration, $174,290, "TBA: Stephanie Olson: Oceanographic Considerations for the Oxygenation of Habitable Worlds: Lessons from Early Earth."


Pijanowski, Bryan C and Zanotti, Laura C; forestry & natural resources, anthropology, from National Science Foundation, $749,953, "CNH2-L: Using Sound to Advance Conceptual Frameworks of Resilience of Integrated Grassland-Pastoralist Systems."

Pipes, R Byron; aeronautics & astronautics, from Yajima Industry Co Ltd, $80,000, "Yajima Task 1."

Poderycki, Michael John; biomedical engineering, from U.S. Department of Health and Human Services, $100,000, "Indiana Health Security Innovation Accelerator; Modification 1, Grant II000935." (a Discovery Park award – Bindley Bioscience Center)

Pomeranz, Irith; electrical & computer engineering, from National Science Foundation, $250,000, "EAGER: Storage-Based Logic Built-In Self-Test with Magnified Test Data."

Pourpoint, Timothee L; aeronautics and astronautics, from Masten Space Systems, $92,000, "Plume Impingement Testing in Vacuum Chamber."

Powley, Terry L; Irazoqui, Pedro; Phillips, Robert J; Rajwa, Bartomiej P; Robinson, Joseph Paul and Ward, Matthew Peter; basic medical science, electrical & computer engineering, psychological sciences, biological sciences, biomedical engineering, from National Institutes of Health, $3,745,989, "Mapping Stomach Autonomic Circuitry and Function for Neuromodulation of Gastric Disorders."


Quinn, Vanessa S and Ragan, Christina M; biological sciences, from Indiana Academy of Science, $4,000, "Increasing Computer Science Competency in Middle School through Brain Awareness Day Activities."

Raman, Arvind; mechanical engineering, from National Science Foundation, $45,311, "INTERN Supplementary Funding for CMMI1726274, GOALI: Multi-Frequency Dynamics in the Atomic Force Microscope."

Ramanathan, Shriram; materials engineering, from National Science Foundation, $72,884, "Collaborative Research: Nanoscale Quantitative Probing of Phase Transition in Correlated Rare-Earth Nickelates (10001568)."

Ramani, Karthik; Quinn, Alexander J and Redick, Thomas S; mechanical engineering, electrical & computer engineering, psychological sciences, from National Science Foundation, $3,000,000, "BI (Future Jobs and AI): Skill-XR: an Affordable and Scalable X-Reality (XR) Platform for Skills Training and Analytics in Manufacturing Workforce Education."
Rayz to Sintim

Rayz, Vitaliy I; Vlachos, Pavlos and Craig, Bruce A; biomedical engineering, mechanical engineering, statistics, from PHS-NIH National Heart, Lung & Blood Institute, $707,635, "Risk Assessment of Cerebral Aneurysm Growth with 4D Flow MRI."

Raz, Ali Khalid; Ezra, Kristopher L and Mockus, Linas; aeronautics and astronautics, chemical engineering, from Sandia National Laboratories, $130,000, "Novel Hypersonic Vehicle Maneuvers via Reinforcement Learning Techniques; Revision 1, Grant 14000486."

Remis, Melissa J and Hall, Elizabeth Sara; liberal arts administration, anthropology, from National Science Foundation, $23,579, "Doctoral Dissertation Research: Zoonotic Risks at the Human-Primate Interface: Behavior, Nutritional Status, and Immune Function in a Central African Forest Reserve."

Ribeiro, Fabio H; chemical engineering, from National Science Foundation, $23,992, "Engineering Research Center for Innovative and Strategic Transformation of Alkane Resources – CISTAR."

Ribeiro, Fabio H; Agrawal, Rakesh; Godwin, Allison F; Gounder, Rajamani P and Miller, Jeffrey T; chemical engineering, engineering education, from National Science Foundation, $4,250,000, "Engineering Research Center for Innovative and Strategic Transformation of Alkane Resources – CISTAR – Year 4."

Ribeiro, Fabio H; chemical engineering, from Multi-Sponsored Industries, $30,000, "CISTAR Industrial Consortium, Haldor Topsoe A/S 4001938."

Richmond, Douglas Scott; entomology, from Syngenta Seeds, Inc., $6,000, "Turfgrass Entomology Research."

Richmond, Douglas Scott; entomology, from Control Solutions Inc., $8,500, "Turfgrass Entomology Research."

Richmond, Douglas Scott; entomology, from Syngenta Seeds, Inc., $11,000, "Turfgrass Entomology Research."

Robinson, Joseph Paul; Allebach, Jan P; Applegate, Bruce M; Bae, Euiwon; Brubaker, Douglas Koehler; Chiu, George T; Chopra, Gaurav; Han, Bumsoo; Kuhn, Richard J; Lindemann, Stephen R; Linnes, Jacqueline C; Luo, Zhao-Qing; Mauer, Lisa J; Narayanan, Sanjeev K; Proctor, Caitlin R; Pruitt, Robert E; Rajwa, Bartlomiej P; Stanciu-Gregory, Lia A and Verma, Mohit S; basic medical science, electrical & computer engineering, food science, mechanical engineering, biomedical engineering, chemistry, biological sciences, comparative pathobiology, environmental & ecological engineering, botany & plant pathology, materials engineering, agricultural & biological engineering, from National Institute of Food & Agriculture, $500,000, "A Pathogen-Safe Sorter for the Center for Food Safety Engineering at Purdue University."

Rodriguez, Catalina E; Educational Opportunities Program, from U.S. Department of Education, $11,670, "Student Support Services."

Rodriguez, Natalia Maria; public health, from PHS-NIH National Cancer Institute, $168,965, "Community-Based Participatory Design of a Human Papillomavirus (HPV) Rapid Diagnostic Test for Cervical Cancer Screening in South Florida; Amendment 2; Grant 11000934."

Rodriguez, Natalia Maria; public health, from PHS-NIH National Cancer Institute, $71,824, "Community-Based Participatory Design of a Human Papillomavirus (HPV) Rapid Diagnostic Test for Cervical Cancer Screening in South Florida (Grant 11000934)."

Roy, Kaushik; electrical & computer engineering, from Ross Graduate Fellowship-Assistantship, $32,677, "He, Kang."

Ruhl, Christopher A; Chief Financial Officer and Treasurer, from U.S. Department of Education, $11,294,397, "HEERF – CARES Act Institutional Portion – PWL."

Sadof, Clifford S; Johnson, William G; Beckerman, Janna L; Harpur, Brock Alexander; Ingwell, Laura L; Krupke, Christian H; Long, Elizabeth Yim; Richmond, Douglas Scott and Egel, Daniel S; botany & plant pathology, entomology, from National Institute of Food & Agriculture, $291,146, "Advancing IPM Knowledge and Adoption in Indiana (Parent)."


Sanders, Jimmie L; Educational Opportunities Program, from U.S. Department of Education, $412,179, "Educational Talent Search Program, 2020-2021 (Grant 19100052)."

Sandhage, Kenneth H; materials engineering, from Rolls-Royce Corporation, $149,999, "Chemical Interactions Between Si-Based Liquids and Si: Thermodynamic and Kinetic Analyses."

Saraswat, Dharmendra; Hancock, Benjamin G and Engel, Bernard A; agricultural & biological engineering, Agricultural Research and Graduate Education, from Environmental Protection Agency, $199,468, "Modernizing Web-Based L-THIA and Increasing Access to Delineated Watersheds’ Characteristics through Rest API."

Saunders, Michael R; forestry & natural resources, from Department of the Navy, $108,630, "Understanding Oak Regeneration and Growth Across Light and Woody Competition Gradients at Naval Support Activity Crane, Crane, Indiana; Amendment 2; Grant 13000812."

Scharf, Michael E; entomology, from Robert or Karen Tarver, $5,000, "Voluntary Support."

Scharf, Michael E; entomology, from Robert or Karen Tarver, $2,500, "Multi Sponsor."

Schonlein, William E; biomedical engineering, from Cook Research Incorporated, $180,000, "Capital Equipment Purchase for BME Building- July 2020."

Schultheiss, Nathan C and Holloway, Eric A; chemical engineering, engineering administration, from Ninewells Institute, Inc, $247,938, "Oil and Gas Analytical Chemist."

Scutari, Gesualdo; industrial engineering, from Ross Graduate Fellowship-Assistantship, $20,132, "Cao, Tianyu."

Shih, Tom I-P; aeronautics and astronautics, from Ames Laboratory, $100,000, "Computational Analysis of Advanced Cooling Strategies for High-Efficiency and Long-Service Life Gas Turbines; Amendment 3; Grant 14000477."

Simpson, Garth J; chemistry, from National Science Foundation, $300,000, "Phase I IUCRC Purdue: Center for Bioanalytic Metrology (CBM) (Grant 10001557)."

Sintim, Herman O; chemistry, from National Science Foundation, $258,686, "IPA Assignment Agreement Herman Sintim."

Sintim, Herman O; chemistry, from KinaRx, LLC, $120,000, "Aminonaphthyridine Compounds as Potential Therapeutics for Lung and Thyroid Cancers."
Sintim to Weibel

Sintim, Herman O; chemistry, from Indiana University School of Medicine, $214,313, “Targeting Cyclic Dinucleotide Signaling Pathways to Interrupt the Nature Cycle of Borrelia Burgdorferi.”

Sivasankar, Preeti Mahalakshmi; speech, language & hearing sciences, from Purdue University F N Andrews Fellowship, $30,744, “Arkenberg, Rachel Elizabeth Hah.”

Sivasankar, Preeti Mahalakshmi; speech, language & hearing sciences, from Purdue University Frederick N. Andrews Fellowship, $31,383, “Schroeder, Mariel Lee.”


Solomon, Kevin V; agricultural & biological engineering, from National Science Foundation, $209,992, “Collaborative Research: Protein Engineering and Processing of Plant Viral Templates for Controlled Nanoparticle Synthesis (10001764).”

Solomon, Kevin V; Harris, Michael T and Loesch-Fries, Loretta Sue; agricultural & biological engineering, chemical engineering, botany & plant pathology, from National Science Foundation, $411,652, “Collaborative Research: Protein Engineering and Processing of Plant Viral Templates for Controlled Nanoparticle Synthesis.”

Son, Steven F and Manship, Timothy D; mechanical engineering, materials engineering, from Aliion Science and Technology, $85,000, “Support to Naval Surface Warfare Center (NSWC) Crane: For Sustainment and Development of Manned and Unmanned Airborne Weapon Systems Capabilities in Support of Naval Air Systems Command (NAVAIR).”

Song, Xiaohui Carol; IT Research Computing, from University of Illinois at Champaign-Urbana, $297,029, “XSEDE 2.0: Integrating, Enabling and Enhancing National Cyberinfrastructure with Expanding Community Involvement.”

Stefanek, George L and Tu, Manghui; computer information technology & graphics (CIT&G), from DoD Cyber Scholarship Program at Purdue University Northwest.

Stewart, Kara R; animal sciences, from Indiana University, $94,687, “Evaluation of Fetal Sex on Metabolic Responses of the Dam.”

Sun, Dengfeng and Wang, Xiaolian; aeronautics and astronautics, electrical & computer engineering, from National Science Foundation, $96,315, “Collaborative Research: II: Medium: Integrating Large-Scale Machine Learning and Edge Computing for Collaborative Autonomous Vehicles.”

Sundaram, Shreyas; electrical & computer engineering, from National Science Foundation, $35,940, “CAREER: Towards Secure Large-Scale Networked Systems: Resilient Distributed Algorithms for Coordination in Networks Under Cyber Attacks (Grant 10001911).”

Sundaram, Shreyas; electrical & computer engineering, from Intel Corporation, $80,000, “Voluntary Support.”

Swanson, Irena; mathematics, from Purdue Doctoral Program, $36,414, “Lopez, Alejandra.”

Swanson, Irena; mathematics, from Purdue University F N Andrews Fellowship, $31,201, “Stewart, Henry Howard.”

Swithers, Susan E; psychological sciences, from PHS-NIH National Institute of Child Health and Human Development, $12,000, “Annual Meeting of the International Society for Developmental Psychobiology (Grant 1000515).”

Taleyarkhan, Rusi P; nuclear engineering, from Savannah River Nuclear Solutions LLC, $200,000, “Novel Sensor for Assay Monitoring and Dosimetry Related to SNM.”

Tao, Weiguo Andy and Rochet, Jean-Christophe; biochemistry, medicinal chemistry & molecular pharmacology, from PHS-NIH National Institute on Aging, $1,526,896, “Dissecting Signaling Pathways and Seeking EV Phosphoproteins as Novel Biomarkers for Alzheimer’s Disease.”

Telenko, Darcy E P; botany & plant pathology, from Gowan Company, $6,500, “Extension Voluntary Support.”

Telenko, Darcy E P; botany & plant pathology, from FMC Corporation, $31,000, “Extension Voluntary Support.”

Telenko, Darcy E P; botany & plant pathology, from Agricultural Research Service, $9,957, “Managing Frogeye Leaf Spot of Soybean in the Midwest.”

Thomas, Renee A; Black Cultural Center, from Indiana Humanities, $1,000, “Advancing Racial Equity Collection Development.”

Thompson, Michelle S; earth, atmospheric & planetary sciences, from Lyndon B. Johnson Space Center, $63,373, “Consortium for the Advanced Analysis of Apollo Samples; Supplement 1, Grant 12000316.”

Towns, Marcy H; chemistry, from National Science Foundation, $300,000, “Investigating How Undergraduate Students Use Their Understanding of Conservation of Energy Across the Disciplines of Chemistry, Physics, and Engineering.”

Trader, Darci J; medicinal chemistry & molecular pharmacology, from PHS-NIH National Institute of General Medical Science, $193,750, “Development of Activity-Based Chemical Reporters to Differentiate Proteasome Isoforms in Cells (Grant 1100926).”

Tu, Manghui; Blades, Deborah J and Jiang, Keyuan; computer information technology & graphics (CIT&G), technology administration, from National Security Agency, $5,971,053, “Establishing a Workforce Development Consortium for Pilot AI-Cybersecurity Certification Based National Training Program.”

Vacc, Andrea; agricultural & biological engineering, from University of Minnesota, $50,000, “Electro-Hydraulic Axial Piston Machine.”

Vandergraff, Donna J; nutrition science, from University of Maryland Baltimore County, $3,000, “Improving FDA Health Communications with Older Women in the U.S. Regarding FDA-Regulated Products: Phase 1B Focus Groups.”

Varma, Amit H; Seo, Jungil and Connor, Robert J; civil engineering, from Indiana Department of Transportation, $225,000, “SPT 4527 – Shear and Bearing Capacity of Corroded Steel Beam Bridges and Effects on Load Rating.”

Wassgren, Carl R and Gonzalez, Marcial; mechanical engineering, from AbbVie Inc, $169,349, “Modeling Screw Feeding of Cohesive Powders Using a Continuum Finite Element Method Model.”

Weibel, Justin A; mechanical engineering, from Aavid Thermalloy, $7,500, “Cooling Technologies Research Center (CTRC), Aavid Q2 40002838.”

Weibel, Justin A; mechanical engineering, from Multi-Sponsored Industrials, $7,500, “Cooling Technologies Research Center (CTRC), Aavid Q3 40002838.”
Weinstein to Zhao

**Weinstein, Dana;** engineering administration, from LASPAU, $30,384, “LASPAU Scholarship for Lampert Ayala, Jorge Antonio.”

**Welp-Smith, Lisa R;** earth, atmospheric & planetary sciences, from Purdue Doctoral Program, $34,192, “Meyers, Alexandra.”

**Widmar, Nicole J Olynk;** agricultural economics, from Purdue University Frederick N. Andrews Fellowship, $30,758, “Fiechtner, Chad M.”

**Wilcox, Michael D; Adams, Nicole and Thompson, Aaron W;** Cooperative Extension Service, nursing, horticulture & landscape architecture, from Turtle Mountain Band of Chippewa Indians, $64,519, “Technical Assistance for Turtle Mountain Recovery Center.”

**Wilson-Frank, Christina R and Hooser, Stephen B;** comparative pathobiology, from Food and Drug Administration, $61,994, “Vet-LiRN Capacity Building Detection of Botulinum Neurotoxins by MALDI-MS.”

**Xie, Yi;** nuclear engineering, from Idaho National Laboratory, $15,000, “Develop Nd and U Doped Poly-Crystalline YAG Crystal.”

**Ximenes, Eduardo A and Wu, Dancia;** agricultural & biological engineering, Indiana State Chemist, from Food and Drug Administration, $110,000, “Microbiology Animal Food Project Testing Track 3 Accelerated Sample Preparation for Microbial Pathogen Detection in Pet Food Samples.”

**Xu, Dongyan;** computer science, from Multi-Sponsored Industrials, $30,000, “CERIAS Voluntary Support 30001799.”

**Xu, Dongyan;** computer science, from LASPAU, $3,544, “LASPAU Scholarship for Andrea Cristina Zapata Delgado.”


**Xu, Jin-Rong;** botany & plant pathology, from Agricultural Research Service, $70,737, “Mechanisms of Ammonium Sencing and Ammonium Suppression of DON Biosynthesis.”

**Xu, Xianfan;** mechanical engineering, from Advancement Storage Technology Consortium, $35,000, “Voluntary Support.”

**Yazawa, Kazuaki;** electrical & computer engineering, from Northrop Grumman Corporation, $100,000, “Integrated Thermal Management of Aerospace Vehicles Consortium Membership (Northrop Grumman).” (a Discovery Park award – Birck Nanotechnology Center)

**Yih, Yuehwern;** industrial engineering, from Agency for International Development, $1,500,000, “Laser Buy-in: Crime and Violence Prevention.”

**Yoon, Gyeong Mee;** botany & plant pathology, from Purdue University Frederick N. Andrews Fellowship, $36,969, “Chien, Yuan-Chi.”

**Youngblood, Jeffrey P;** materials engineering, from U.S. Forest Service, $23,500, “Fiber Reinforcement of Mechanically Fibrillated Cellulose Nanofibril (mCNF) Laminates with Increased Mechanical Strength and Toughness.”

**Yu, Denny;** industrial engineering, from University of Buffalo, $30,000, “Optimizing the Layout of the Robotic-Assisted Surgery Operating Room.”

**Yu, Denny and Wachs, Juan P;** industrial engineering, from PHS-Biomedical Imaging & Bioengineering, $183,111, “Real-Time Non-Intrusive Workload Monitoring-Integration of Human Factors in Surgery Training and Assessment (Grant 11000901).”

**Zhang, Dabao and Zhang, Min;** statistics, from University of Washington, $152,489, “Modeling Blood Metabolite Homeostasis for Cancer Risk Assessment.”

**Zhang, Min;** statistics, from PHS-NIH National Cancer Institute, $238,709, “Big Data Training for Cancer Research; Amendment 1, Grant 11000927.”

**Zhang, Xinghang;** materials engineering, from National Science Foundation, $49,213, “Mechanics and Kinetics of Void Swelling in Irradiated Nanoporous Materials.”

**Zhao, Lin and Ye, Chen;** quantitative business, from Indiana Campus Compact, $2,500, “Developing and Implementing an Undergraduate Research Project on the Effects of COVID-19: Evidence from Twitter.”

---

**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.