

Sponsored Programs Expenditure Report

For the period July 1, 2020 - June 30, 2021



<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
020 Acad Affairs Prov VP						
Fegley, Dr. Megan Elizabeth Audrey	University of Georgia	Momentary Assessment of Research Learning Enviroments	100	\$4,055	\$2,027	\$6,082
Imbruce, Dr. Valerie	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$41,948	\$15,420	\$57,367
Imbruce, Dr. Valerie	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$86,387	\$0	\$86,387
Imbruce, Dr. Valerie	US Department of Education	Ronald E. McNair Post-Baccalaureate Achievement 2017-2022	100	\$231,684	\$8,857	\$240,540
Imbruce, Dr. Valerie	National Endowment for the Humanities	Situating Chemical Elements in the Human World to Innovate Undergraduate Education	50	\$375	\$214	\$589
Pitarresi, Dr. James	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$41,948	\$15,420	\$57,367
Pitarresi, Dr. James	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$86,387	\$0	\$86,387
Um, Dr. Nancy	National Endowment for the Humanities	COVID: Critical Support for Foreign Language Instruction at Binghamton University	100	\$199,997	\$99,999	\$299,996
Withers, Ms. Michelle D	National Science Foundation	RCN-UBE: Networking STEM initiatives to enchance (NSITE) adoption of Evidence-Based Practices	100	\$39,343	\$22,426	\$61,769
Department Total:				\$896,485		

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<i>020 Anthropology</i>						
Digangi, Dr. Elizabeth Ann	US Department of Justice	Microbial Community Succession in Human and Pig Decomposition	100	\$314	\$0	\$314
Digangi, Dr. Elizabeth Ann	US Department of Justice	A Virtual Anthropological Approach to the Study of Commingled Human Remains	100	\$17,788	\$570	\$18,358
Lipo, Dr. Carl	Rust Family Foundation	Unraveling the mystery of Poverty Point Louisiana through the novel use of eDNA to identify past food items	100	\$1,390	\$0	\$1,390
McGuire, Dr. Randy	National Science Foundation	Conceptualizing Cultural Contact And Transmission Across International Boundaries	100	\$33,169	\$8,624	\$41,793
McGuire, Dr. Randy	National Science Foundation	Doctoral Dissertation Improvement Award: Emergence of Settlement Patterns	100	\$7,223	\$1,878	\$9,101
Merriwether, Dr. David A	Multiple Sponsors	Income Account for Unrestricted Support for A. Merriwether	100	\$8,875	\$1,331	\$10,207
Sanger, Dr. Matthew	National Science Foundation	Collaborative Research: Examination of Sites on the Georgia Bight Coastline	100	\$540	\$140	\$680
Van Dyke, Dr. Ruth	National Park Service	Condition Assessment and Emergency Treatment of Managed Archaeological Sites on Chacra Mesa	100	\$8,427	\$1,475	\$9,902
Wander, Dr. Katherine	National Science Foundation	Human adaption in high-pathogen enviroments: iron, infection, and child growth and development	100	\$10,933	\$5,743	\$16,676
Wander, Dr. Katherine	National Science Foundation	RAPID: Evolutionary Nutritional Adaptations and COVID-19 Risk Among Healthcare Workers	100	\$107,663	\$12,740	\$120,403

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Wilson, Dr. Thomas M.	Rochester Institute of Technology	Rockwell Kent and Early 1930's Greenland: A Comparative View of Environmental, Social and Cultural Change in Contemporary Greenland - RIT Federal Award No: PLR-1524176	100	\$3,288	\$573	\$3,860
				Department Total:	\$232,684	
020 Art History						
Smart, Dr. Pamela	National Endowment for the Humanities	Situating Chemical Elements in the Human World to Innovate Undergraduate Education	50	\$375	\$214	\$589
				Department Total:	\$589	
020 Arts and Sciences Dean						
Holahan, Dr. Robert A	National Science Foundation	Collaborative Research: Technological Shocks and Institutional Effectiveness under Heterogeneous Risk	100	\$42,127	\$20,521	\$62,648
				Department Total:	\$62,648	
020 Asian Asian-American Studies						
Chen, Dr. Zu-yan	Confucius Institute of China	Confucius Institute of Chinese Opera	100	\$52,115	\$0	\$52,115
Chen, Dr. Zu-yan	National Academy of Chinese Theatre Arts	2021 National Academy of Chinese Theatre Arts	100	\$10,159	\$1,016	\$11,175
Cho, Dr. Sungdai	Cornell University	Korean at the Nexus of the Northeast Asia Linguistic Area	100	\$77,059	\$7,706	\$84,765
				Department Total:	\$148,055	
020 Biological Sciences						
Cook, Dr. Laura	National Institute of Allergy & Infectious Disease	The Characterization of Streptococcus agalactiae Novel Protein, Sak_1753 in the Colonization of the Vaginal Tract	100	\$28,496	\$0	\$28,496

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Cook, Dr. Laura	National Institute of Allergy & Infectious Disease	Transcriptomic and Genetic Differences of Group A Streptococcus in Humans: Acute Infection Versus Carriage	100	\$98,622	\$10,103	\$108,724
Fiumera, Dr. Anthony	National Institute of General Medical Sciences	Laboratory Selection for Drosophila Melanogaster Genetic Variants that Confer Increased Survival on a Diabetogenic Diet	15	\$8,517	\$4,854	\$13,371
Marques, Dr. Claudia	National Inst of Environmental Health Sciences	Engineering a Small Intestinal Microbiome To Evaluate Food Additive Exposure	50	\$110,791	\$55,521	\$166,312
Meindl, Dr. Jessica Hua	National Science Foundation	Collaborative Research: Disease ecology in the midst of anthropogenic stressors: Exploring the influence of pesticides on host-parasite interactions	100	\$25,385	\$14,480	\$39,865
Musselman, Dr. Laura	American Heart Association Western State Affiliate	Identification of Lipotoxins Affecting Cardiac Physiology in the Face of Caloric Overload	100	\$22,963	\$2,296	\$25,260
Musselman, Dr. Laura	National Institute of General Medical Sciences	Laboratory Selection for Drosophila Melanogaster Genetic Variants that Confer Increased Survival on a Diabetogenic Diet	70	\$39,744	\$22,654	\$62,398
Powell, Mr. Thomas	University of Florida	Dimensions: Collaborative Research: Time After Time: Adaptive Seasonal Timing Drives the Sequential Origin of Community- U of F Project: P0016611	100	\$4,931	\$2,811	\$7,741
Prior, Dr. Kirsten	National Science Foundation	EAGER: Uncovering the Role of Altered Cryptic Interactions in Driving the Demographic Success of a Range-Expanding Species	100	\$24,883	\$6,300	\$31,183
Sauer, Dr. Karin	National Institute of Allergy & Infectious Disease	Role of PA4878 in biofilm antimicrobial resistance	100	\$150,599	\$82,829	\$233,428
Sauer, Dr. Karin	National Institute of Allergy & Infectious Disease	Dispersion and the Biofilm Matrix of Pseudomonas aeruginosa	100	\$4,526	\$2,580	\$7,106
Schertzer, Dr. Jeffrey W	National Institute of General Medical Sciences	Small-molecule membrane interactions as a driver of bacterial outer membrane vesicle biogenesis across species	50	\$8,845	\$5,041	\$13,886

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Schertzer, Dr. Jeffrey W	National Institute of Allergy & Infectious Disease	Pathogen Synergy Through Cross-Species Induction of Outer Membrane Vesicle Biogenesis	100	\$62,082	\$34,581	\$96,664
Sobel, Dr. James	National Science Foundation	Collaborative Research: ROL: Rapid Evolution of Reproductive Isolation via Hybrid Seed Lethality in Mimulus	100	\$22,508	\$12,829	\$35,337
Stamp, Dr. Nancy E	Howard Hughes Medical Institute	Howard Hughes Support - Freshman Research Immersion (FRI) Models	50	\$592	\$0	\$592
Withers, Ms. Michelle D	National Science Foundation	Mobile Summer Institutes: Creating Points of Transformation in Post-Secondary STEM Education	100	\$29,786	\$16,978	\$46,764

Department Total: \$917,126

020 Biomedical Engineering

German, Dr. Guy K	National Science Foundation	CAREER: Understanding the Multi-Scale Failure Mechanics of Human Skin with Age, Ultraviolet Photodamage and Bacteria Growth	100	\$38,312	\$21,301	\$59,612
German, Dr. Guy K	Multiple Sponsors	Susan Pardee Baker Trust - Unrestricted Research Support	50	\$12,730	\$1,910	\$14,640
German, Dr. Guy K	National Science Foundation	RAPID: Ultraviolet Germicidal Irradiation for Disinfecting and Reuse of N95 Respirators	30	\$23,000	\$12,949	\$35,950
German, Dr. Guy K	National Science Foundation	I-Corps: Preventing Rolling Veins During IV Insertion	100	\$10,865	\$1,207	\$12,072
Hookway, Dr. Tracy	National Heart Lung and Blood Institute	Heterotypic impacts on epicardial cells on engineered cardiac microtissue function	100	\$70,405	\$39,033	\$109,438
Jin, Dr. Sha	National Science Foundation	Molecular mechanisms of tissue specific signaling for islet self-assembly	80	\$54,635	\$30,264	\$84,898

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Jin, Dr. Sha	National Inst of Biomedical Imaging and Bioenginee	Generation of Islet Organoids in Oxygenated Scaffolds	75	\$56,287	\$29,519	\$85,806
Koh, Dr. Ahyeon	Nano-Bio Materials Consortium	Epifluidics for Stress Monitoring	45	\$24,914	\$11,123	\$36,036
Koh, Dr. Ahyeon	Sete Digital LTDA	Apolo Project	100	\$15,492	\$8,830	\$24,322
Koh, Dr. Ahyeon	National Science Foundation	Power-On-Skin: Energy Generation from Sweat-Eating Bacteria for Self-Powered Electronic Skins	40	\$31,688	\$17,055	\$48,743
Koh, Dr. Ahyeon	National Science Foundation	Stretchable Papertronics	50	\$22,811	\$9,779	\$32,590
Lu (Frank), Dr. Fake (Frank)	National Institutes of Health	Stimulated Raman imaging for label-free histology to guide brain tumor surgery	100	\$110,604	\$46,568	\$157,173
Lu (Frank), Dr. Fake (Frank)	National Institute of General Medical Sciences	Low-Power Stimulated Raman Time-Lapse Microscope for Tracking Dynamics and Fate of Lipid Droplets in Glioma Cells	100	\$42,165	\$9,650	\$51,815
Mahler, Dr. Gretchen J	National Inst of Environmental Health Sciences	Engineering a Small Intestinal Microbiome To Evaluate Food Additive Exposure	50	\$110,791	\$55,521	\$166,312
Mahler, Dr. Gretchen J	National Science Foundation	Mechanobiology of Myofibroblast Behavior in Health and Disease	25	\$25,976	\$14,135	\$40,112
Mahler, Dr. Gretchen J	American Heart Association Western State Affiliate	Three-dimensional Valve-on-a-chip Models of the Aortic Valve Fibrosa	100	\$24,214	\$0	\$24,214
Wan, Dr. Yuan	Carnegie Mellon University	Lipid nanoprobe integrated microdevice for extracellular vesicle isolation and duplex sequencing based mutation detection for non-invasive lung cancer diagnosis	100	\$28,707	\$16,363	\$45,070

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Wang, Dr. Li-Ju	National Institute of Dental & Craniofacial Res	Development of a Smartphone based infrared fluorescenceimaging intraoral device (SMART-IR-ID) for dentist- guided realtime self-monitoring of periodontal disease	100	\$12,561	\$7,160	\$19,721
Ye, Dr. Kaiming	Johns Hopkins University	NIST Professional Research Experience Program (PREP) Partnership	100	\$97,319	\$25,303	\$122,621
Ye, Dr. Kaiming	University of Arkansas	EAGER: SARS-CoV-2 Pseudovirus via a novel eukaryotic construction in yeast	100	\$425	\$242	\$667
Ye, Dr. Kaiming	National Science Foundation	RAPID: Ultraviolet Germicidal Irradiation for Disinfecting and Reuse of N95 Respirators	70	\$53,668	\$30,215	\$83,882
Ye, Dr. Kaiming	National Inst of Biomedical Imaging and Bioenginee	Generation of Islet Organoids in Oxygenated Scaffolds	25	\$18,762	\$9,840	\$28,602
Ye, Dr. Kaiming	Johns Hopkins University	NIST Professional Research Experience Program (PREP) Partnership	100	\$14,394	\$3,742	\$18,136
Ye, Dr. Kaiming	Johns Hopkins University	NIST Professional Research Experience Program (PREP) Partnership	100	\$13,889	\$3,611	\$17,500
Ye, Dr. Kaiming	National Science Foundation	REU Site: Undergraduate Research Experience in Biomedical Translational Science and Technology Development	100	\$63,264	\$0	\$63,264
Ye, Dr. Kaiming	National Science Foundation	REU Site: Undergraduate Research Experience in Biomedical Translational Science and Technology Development	100	(\$21,572)	(\$12,296)	(\$33,868)
Ye, Dr. Kaiming	National Science Foundation	Molecular mechanisms of tissue specific signaling for islet self-assembly	20	\$13,659	\$7,566	\$21,225
Department Total:				\$1,370,553		

020 CCPA Deans Office

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Bronstein, Dr. Laura R	NYS Education Department	Community Schools Regional Technical Assistance Center (TAC)- CARES Act Funding	100	\$93,235	\$24,241	\$117,477
Bronstein, Dr. Laura R	Multiple Sponsors	Continuing Education Activities	100	\$30,323	\$4,548	\$34,872
Bronstein, Dr. Laura R	Multiple Sponsors	CCPA Miscellaneous Income	100	\$304,237	\$45,636	\$349,873
Bronstein, Dr. Laura R	NYS Education Department	Community Schools Regional Technical Assistance Center (TAC)	100	\$26,352	(\$7,677)	\$18,675
Bronstein, Dr. Laura R	NYS Education Department	Community Schools Regional Technical Assistance Center (TAC)	100	\$235,247	\$33,309	\$268,556
Bronstein, Dr. Laura R	University of Pennsylvania	Netter Center Regional Training Center Award, Year One of Three	100	\$36,282	\$0	\$36,282
Bronstein, Dr. Laura R	University of Massachusetts Worcester	Helping Youth on the Path to Employment (HYPE): Creating Economic Self-Sufficiency Subaward No. OSP28329-01	100	\$5,000	\$0	\$5,000
Kida, Ms. LuAnn F	Broome County Department of Mental Health	Binghamton University Community Schools	100	\$116,359	\$17,454	\$133,812
Kida, Ms. LuAnn F	National Science Foundation	Engaging Rural Youth in Multidisciplinary Inquiry through Archaeology	25	\$7,175	\$1,866	\$9,041
Kida, Ms. LuAnn F	US Department of Education	Binghamton University Community Schools PLACE (Partnerships for Learning and Community Engagement) Initiative	30	\$141,242	\$9,501	\$150,743
Kida, Ms. LuAnn F	Conrad and Virginia Klee Foundation	Promise Zone to Pilot an Early Childhood Program within BU Community Schools at the Harpursville Central School District	100	\$8,458	\$0	\$8,458

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Mastroleo, Dr. Nadine	Brown University	Behavioral Science and Biostatistics Resource Code for Alcohol-HIV Research Federal Award 5U24AA022003-06	100	\$8,500	\$4,675	\$13,174
Mastroleo, Dr. Nadine	Brown University	Enhancing the Efficacy and Duration of a Brief Alcohol Intervention Using Self-Affirmation-1R01AA025643-01	100	\$218	\$124	\$341
Mastroleo, Dr. Nadine	SiMmersion	Simulated Clinician Assessment for Cognitive Behavioral Therapy Skills R01MH112625	33.4	\$6,699	\$3,751	\$10,450
Mastroleo, Dr. Nadine	National Institute for Alcohol Abuse & Alcoholism	An Integrated Brief Alcohol and PTSD Intervention for Veterans in Primary Care	50	\$7,492	\$4,270	\$11,762
Pulz, Ms. Casey	Mothers and Babies Perinatal Network of South Cent	Mothers & Babies PREP Summer Youth Development Program - Community Schools Program at harpursville Central School District	100	\$1,903	\$190	\$2,093
Schaffer, Mr. David	National Institutes of Health	Perivascular Transport of Solutes from the Brain	33	\$3,204	\$996	\$4,201

Department Total: \$1,174,809

020 CCPA Human Development

Wilton, Dr. Leo	New York University	Using MOST to Optimize an HIV Continuum Intervention for Vulnerable Populations NIH Award R01DA040480- IB00041344, iB00319767; iB00347489	100	\$11,200	\$6,160	\$17,360
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Department Total: \$17,360

020 CCPA Public Administration

Rubaii, Dr. Nadia	Auschwitz Inst for the Prev of Genocide & Mass Atrocities	An Analysis of the Relation Between Speech Legitimizing Violence	50	\$4,762	\$238	\$5,000
Rubaii, Dr. Nadia	Auschwitz Inst for the Prev of Genocide & Mass Atrocities	An Analysis of the Relation Between Speech Legitimizing Violence	50	\$543	\$27	\$570

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Department Total: \$5,570

020 CCPA Social Work

Rizzo, Dr. Victoria	SiMmersion	Simulated Clinician Assessment for Cognitive Behavioral Therapy Skills R01MH112625	33.3	\$6,679	\$3,740	\$10,419
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Department Total: \$10,419

020 CCPA Teaching Learning Educ Leadership

Humphrey, Ms. Amy L.	NYS Education Department	Liberty Partnership Program 2019-2020	100	\$81,385	\$6,510	\$87,895
Humphrey, Ms. Amy L.	Mothers and Babies Perinatal Network of South Cent	Mothers & Babies PREP Summer Youth Development Program	100	\$12,824	\$1,282	\$14,106
Humphrey, Ms. Amy L.	NYS Education Department	Liberty Partnership Program 2020-2021	100	\$279,544	\$22,364	\$301,908
Humphrey, Ms. Amy L.	Multiple Sponsors	Income Account for Liberty Partnership Activities	100	\$77,759	\$6,221	\$83,980
Malin, Dr. Jo E.	US Department of Education	Talent Search Program 2017-2021	100	\$351,785	\$28,143	\$379,928
Mellin, Dr. Elizabeth	US Department of Education	Binghamton University Community Schools PLACE (Partnerships for Learning and Community Engagement) Initiative	70	\$329,565	\$22,168	\$351,733
Simpson, Dr. Amber	National Science Foundation	Collabarative Research: Engineering a Community Family Partnership: Developing a Program Aimed at Making & Design Practices in Home Enviroments	100	\$47,278	\$26,412	\$73,690
Simpson, Dr. Amber	National Science Foundation	Engaging Rural Youth in Multidisciplinary Inquiry through Archaeology	25	\$7,175	\$1,866	\$9,041

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Simpson, Dr. Amber	National Science Foundation	Collaborative Research: The Notion of Failure and Maker Programming for Youth: Supporting the Professional Development, Reflection, and Learning of Informal Educators	100	\$27,903	\$15,905	\$43,807
Simpson, Dr. Amber	Trustees of Indiana University	RAPID: Rapidly building a collaborative network of informal educators to address school closures related to the 2020 COVID -19 Pandemic - SUBAWARD #8447	100	\$2,282	\$1,301	\$3,583

Department Total: \$1,349,672

020 Chemistry

An, Dr. Ming	National Institute of General Medical Sciences	Rational Design of pH-Low Insertion Peptides for Cargo Delivery	70	\$49,237	\$28,065	\$77,301
Bane Tuttle, Dr. Susan B	National Cancer Institute	Coupling through Boron: Fast, Tunable, and Versatile Bioorthogonal Reactions Producing Boron-Containing Heterocycles	100	\$54,292	\$30,678	\$84,971
Callahan, Dr. Brian P	Rensselaer Polytechnic Institute	National Cancer Insitute Diversity Supplement for Andrew Wagner	100	\$37,095	\$20,607	\$57,703
Callahan, Dr. Brian P	Rensselaer Polytechnic Institute	Structural Mechanisms of Hedgehog Autoprocessing in Physiology and Disease PTE 1R01CA206592-01-A1 - Subaward A12815	100	\$117,127	\$63,102	\$180,229
Chernova, Ms. Natalya A.	National Science Foundation	MRI: Acquisition of a Hard X-Ray PhotoElectron Spectroscopy (HAXPES) for the Institute for Materials Research (IMR) at Binghamton University (BU)	10	\$28,160	\$0	\$28,160
Dimitrov, Mr. Nikolay	Purdue University	Dimitrov 2020 SRC CHIRP: Fine Pitch Cu-Sn Based Interconnection Below Temperatures of 180oC	100	\$26,149	\$14,905	\$41,054
Fang, Dr. Jiye	National Science Foundation	Scholarships and Nanofabrication Experience: Successful Transitions from Community College to Graduate School	25	\$6,657	\$0	\$6,657

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Fang, Dr. Jiye	National Science Foundation	Scholarships and Nanofabrication Experience: Successful Transitions from Community College to Graduate School	25	(\$2,133)	\$316	(\$1,817)
Fang, Dr. Jiye	American Chemical Society	Ceria Facet Dependent Oxidative Coupling of Methane Towards C2 Products	100	\$4,627	\$0	\$4,627
Fang, Dr. Jiye	National Science Foundation	Manipulating and Exploiting Lattice Strain as a Novel Platform to Tune the Surface Work Function of Matallic Nanocatalysts	100	\$36,548	\$19,734	\$56,282
Fang, Dr. Jiye	Cornell University	Development of Advanced ORR/ HOR Nano-Electrocatalysts in Alkaline Media FEderal Award no DE-SC0019445	100	\$68,117	\$34,240	\$102,357
Goyal, Ms. Puja	National Institute of General Medical Sciences	Towards Rational Design of the Photocontrol of Calmodulin-Protein Interactions	100	\$6,669	\$3,801	\$10,470
Grewer, Dr. Christof	Icahn School of Medicine at Mount Sinai	Substrate Specificity Determinants in Nutrient Solute Carrier Transporters	100	\$49,937	\$26,775	\$76,712
Grewer, Dr. Christof	Mount Sinai School of Medicine	Substrate Specificity Determinants in Nutrient Solute Carrier Transporters	100	\$18,142	\$10,341	\$28,483
Grewer, Dr. Christof	National Institute of General Medical Sciences	How to combat Glutamate Release by Reverse Transport: Mechanistic Studies and Development of Selective Efflux Inhibitors	100	\$91,422	\$43,932	\$135,354
Hirschi, Dr. Jennifer Sue	National Science Foundation	Covalent and Transition State Inhibitor Design	100	\$16,248	\$9,261	\$25,509
Jones, Dr. Wayne E	National Science Foundation	Scholarships and Nanofabrication Experience: Successful Transitions from Community College to Graduate School	25	\$6,657	\$0	\$6,657
Jones, Dr. Wayne E	National Science Foundation	Scholarships and Nanofabrication Experience: Successful Transitions from Community College to Graduate School	25	(\$2,133)	\$316	(\$1,817)

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Liu, Dr. Hao	National Science Foundation	Rational Design of Oxide Cathode Coating for High Performance Li-ion Batteries	34	\$24,015	\$13,415	\$37,430
Liu, Dr. Hao	National Science Foundation	Rational Design of Oxide Cathode Coating for High Performance Li-ion Batteries	34	\$2,040	\$0	\$2,040
Panetier, Dr. Julien	National Institute of General Medical Sciences	Computational Modeling of Carbon Monoxide Dehydrogenase Model Systems for Carbon Dioxide Fixation	100	\$75,316	\$41,856	\$117,173
Qiang, Dr. Wei	National Institute of General Medical Sciences	Molecular mechanisms of membrane disruption induced by early-stage aggregation of beta-amyloid peptides	100	\$157,157	\$61,744	\$218,901
Qiang, Dr. Wei	National Institute of General Medical Sciences	Molecular mechanisms of membrane disruption induced by early-stage aggregation of beta-amyloid peptides	100	\$63,302	\$0	\$63,302
Rozners, Dr. Eriks	National Science Foundation	Collaborative Research: Nucleobase-Modified Peptide Nucleic Acid (PNA) for Sequence Selective Triple-Helical Recognition of Non-Coding Ribonucleic Acid (RNA)	100	\$86,356	\$46,865	\$133,221
Rozners, Dr. Eriks	National Institute of General Medical Sciences	Chemical approaches to control the function of regulatory RNAs	100	\$328,420	\$130,546	\$458,966
Rozners, Dr. Eriks	American Chemical Society	ACS Summer Undergraduate Research Fellowship- John Talbott	100	\$209	\$0	\$209
Solmaz, Ms. Sozanne	National Institute of General Medical Sciences	Cell cycle-specific recognition of the cell nucleus as cargo for dynein-dependent transport	100	\$87,838	\$48,713	\$136,551
Swierk, Dr. John	American Chemical Society	Photochemical Oxidation of Refractory Sulfur Compounds for Fuel Desulfurization	100	\$50,125	\$0	\$50,125
Swierk, Dr. John	National Institute of General Medical Sciences	Photochemical transformations of multicomponent aggregates containing photolabile small molecules, heavy metal ions, and/or nanoparticles in biological environments	100	\$43,425	\$24,484	\$67,909

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Vetticatt, Dr. Mathew	National Institutes of Health	Novel Concepts and Mechanistic Probes in Catalysis	100	\$112,463	\$63,006	\$175,468
Vetticatt, Dr. Mathew	National Institutes of Health	400 MHz NMR Spectrometer for Regional NMR Facility	100	\$60,000	\$0	\$60,000
Whittingham, Dr. M Stanley	US Department of Energy	Northeast Center for Chemical Energy Storage(NECCES)	89.24	\$253,468	\$66,476	\$319,944
Whittingham, Dr. M Stanley	US Department of Energy	Battery500 Consortium - Development of High-Capacity Cathodes and Robust Solid Electrolytes	100	\$149,671	\$83,666	\$233,337
Whittingham, Dr. M Stanley	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$41,948	\$15,420	\$57,367
Whittingham, Dr. M Stanley	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$86,387	\$0	\$86,387
Whittingham, Dr. M Stanley	Pacific Northwest National Laboratory	The Stability of High Energy Lithium Batteries	100	\$64,969	\$36,764	\$101,732
Whittingham, Dr. M Stanley	Empire State Development Corp	HTMG: EFRC-NE Center of Energy Storage	75	\$171,209	\$0	\$171,209
Whittingham, Dr. M Stanley	NYS Energy Research and Development Authority	NYSERDA Cost Share for North East Center for Chemical Energy Storage (NECCES) Energy Frontier Research Center	100	\$34,798	\$19,286	\$54,084
Whittingham, Dr. M Stanley	NYS Energy Research and Development Authority	Agreement 154461: empowerST: Empowering Energy Storage Entrepreneurship in the Southern Tier	50	\$1,188	\$677	\$1,865
Zhong, Dr. Chuan Jian	National Science Foundation	Exploring Synergy of Composition-Tunable Nanoalloys for Catalytic Oxidation of Hydrocarbons	100	\$38,906	\$20,868	\$59,774

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Zhong, Dr. Chuan Jian	BASF Corporation	Controlled synthesis of multi-metallic nanoscale alloys	100	\$30,625	\$17,456	\$48,082
Zhong, Dr. Chuan Jian	National Science Foundation	I-Corps: Low-Cost and Highly Efficient Hydrogen Production from Water Splitting	50	\$6,441	\$716	\$7,156
Zhong, Dr. Chuan Jian	BASF Corporation	Controlled synthesis of multi-metallic nanoscale alloys	100	\$54,240	\$30,917	\$85,157
Zhong, Dr. Chuan Jian	Mecotech Incorporated	Unrestricted Research	100	\$21,996	\$3,299	\$25,295
Zhong, Dr. Chuan Jian	National Science Foundation	I-Corps: Low-Cost and High-Durability Fuel Cells	100	\$8,116	\$902	\$9,017
Department Total:				\$3,700,592		

020 Computer Science

Chiu, Dr. Kenneth	National Science Foundation	Spokes: SMALL: NORTHEAST: Collaborative: Building the Community to Address Data Integration of the Ecological Long Tail	100	\$33,883	\$19,313	\$53,196
Chiu, Dr. Kenneth	Cornell University	104B State Water Resources Research Institute Program	50	\$10,000	\$0	\$10,000
Chiu, Dr. Kenneth	TOTAL E&P Research & Technology USA, LLC	Performance Measurement, Analysis, and Tuning of Seismic and Machine Learning Workloads	100	\$1,281	\$730	\$2,012
Dai, Dr. Weiying	Cornell University	Basal forebrain connections to the heart and mind in healthy aging	100	\$8,779	\$5,004	\$13,783
Ghose, Dr. Kanad	Flex Tech Alliance	Improved ECG Monitor with Capacitive Electrodes	30	\$10,877	\$6,035	\$16,912

<u><i>Investigator</i></u>	<u><i>Sponsor Name</i></u>	<u><i>Award Title</i></u>	<u><i>% Credited to Investigator</i></u>	<u><i>Direct Costs Expended</i></u>	<u><i>F & A Expended</i></u>	<u><i>Total Expended</i></u>
Ghose, Dr. Kanad	Purdue University	CHIRP: Higher Voltage Package Power Delivery and Power Management Systems for High-End SiPs (Proposal Number W32609)	50	\$12,533	\$7,144	\$19,677
Ghose, Dr. Kanad	NVIDIA Corporation	Liquid to Air Data Center Cooling Lab Development	50	\$15,915	\$9,072	\$24,987
Ghose, Dr. Kanad	Purdue University	CHIRP: Direct Liquid and Two Phase Cooling of High Heat Flux Electronics in Heterogeneous Integrated (HI) Packages: Experimental and Analytical Studies at the Device and Module Levels (Proposal Number W32612)	33	\$5,321	\$3,033	\$8,354
Ghose, Dr. Kanad	Lockheed Martin Corporation	Supplier Development Efforts for the DARPA SSITH Program Phases 1-3	60	\$172,533	\$87,512	\$260,045
Ghose, Dr. Kanad	Purdue University	CHIRP: Exploration of Holistic Scaleout Designs Within Heterogeneous Packages for HPC/Server Processors (Proposal Number	50	\$19,231	\$10,961	\$30,192
Ghose, Dr. Kanad	Empire State Development Corp	Match to Improved ECG Monitor with Capacitive Electrodes	30	\$10,129	\$5,773	\$15,902
Gopalan, Dr. Kartik	ITRI International Incorporated	Improving Performance and Live Migration for Bare-metal Clouds	100	\$44,888	\$25,586	\$70,474
Kang, Dr. Kyoung-Don	National Science Foundation	CSR: Small: Timely Power-Aware Data Managment in Embedded Systems	100	\$14,639	\$8,051	\$22,690
Kang, Dr. Kyoung-Don	National Science Foundation	CNS Core: Small: Toward Real-Time Stream Processing in Edge Devices	100	\$26,823	\$11,869	\$38,693
Liu, Dr. Yao	National Science Foundation	CSR: Small: A Unified Approach Toward User-specific Improvements of Quality of Experience for Video Streaming	100	\$13,818	\$5,734	\$19,552
Liu, Dr. Yao	National Science Foundation	CAREER: System Research to Enable Practical Immersive Streaming : From 360-Degree Towards Volumetric Video Delivery	100	\$38,426	\$20,805	\$59,231

<u><i>Investigator</i></u>	<u><i>Sponsor Name</i></u>	<u><i>Award Title</i></u>	<u><i>% Credited to Investigator</i></u>	<u><i>Direct Costs Expended</i></u>	<u><i>F & A Expended</i></u>	<u><i>Total Expended</i></u>
Liu, Dr. Yu David	National Science Foundation	SHF: Small: Lazy Data Structures for Data-Intensive Applications	100	\$90,599	\$38,694	\$129,293
Liu, Dr. Yu David	National Science Foundation	CRI: CI-New: Collaborative Research: Extensible, Software Enabled Unmanned Aerial Vehicles	100	\$64,562	\$29,552	\$94,113
Liu, Dr. Yu David	National Science Foundation	CNS Core: Small: Language Runtime Support for Energy- Aware Applications	100	\$71,639	\$39,736	\$111,375
Lu, Mr. Hui	National Science Foundation	CNS Core: Small: Collaborative: Salvaging Commodity Operating Systems to Support Emerging Networking Technologies	100	\$27,804	\$12,428	\$40,232
Meng, Dr. Weiyi	National Science Foundation	BIGDATA: Collaborative Research: F: Streaming Architecture for Continuous Entity Linking in Social Media	100	\$10,839	\$5,961	\$16,800
Ponomarev, Dr. Dmitry V	Qatar University	Architectural Approaches for Protecting Against Compromised System Software	100	(\$947)	(\$189)	(\$1,137)
Ponomarev, Dr. Dmitry V	National Science Foundation	TWC: Small: Collaborative: Practical Hardware-Assisted Always-On Malware Detection	50	\$46	\$25	\$71
Prakash, Dr. Aravind	US Navy Office of Naval Research	ALBER: A Backward-Compatible Late-Stage Debloating Platform for Mobile and Desktop Environments	100	\$101,677	\$53,438	\$155,115
Prakash, Dr. Aravind	Lockheed Martin Corporation	Supplier Development Efforts for the DARPA SSITH Program Phases 1-3	30	\$86,267	\$43,756	\$130,022
Sha, Dr. Mo	National Science Foundation	CAREER: Advancing Network Configuration and Runtime Adaption Methods for Industrial Wireless Sensor- Actuator Networks	100	\$10,022	\$5,713	\$15,735
Shin, Dr. Seunghee	Korea University	Research on CPU Vulnerability Detection and Validation	100	\$71,250	\$12,112	\$83,362

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Yan, Dr. Guanhua	National Science Foundation	TWC: Small: A Moving Target Approach to Enhancing Machine Learning-Based Malware Defense	100	\$69,797	\$34,256	\$104,053
Yan, Dr. Guanhua	National Science Foundation	CICI: RSARC: Infrastructure support for securing large-scale scientific workflows	35	\$25,745	\$6,675	\$32,420
Yan, Dr. Guanhua	University of Illinois Urbana Champaign	National Critical Infrastructure Resilience Center of Excellence	100	\$1,492	\$851	\$2,343
Yan, Dr. Guanhua	National Science Foundation	Career: Proactive Techniques for Enhancing Security and Resilience of Mobile Communication Infrastructure	100	\$26,772	\$11,048	\$37,820
Yang, Dr. Ping	National Science Foundation	CICI: RSARC: Infrastructure support for securing large-scale scientific workflows	65	\$47,812	\$12,396	\$60,208
Yin, Dr. Lijun	National Science Foundation	CI-SUSTAIN: Collaborative Research: Extending a Large Multimodal Corpus of Spontaneous Behavior for Automated Emotion Analysis	100	\$82,466	\$44,024	\$126,489
Yu, Dr. Lei	National Science Foundation	TWC: Small: Collaborative: Practical Hardware-Assisted Always-On Malware Detection	50	\$46	\$25	\$71
Yu, Dr. Lei	General Electric Global Research	Learning robust and Accurate Multiphysics/Multiscale Simulators Using Deep Reinforcement Learning	100	\$76,730	\$43,053	\$119,782
Zhang, Dr. Shiqi	National Science Foundation	NRI: FND: Knowledge-based Robot Sequential Decision Making under Uncertainty	100	\$54,013	\$29,689	\$83,702
Zhang, Dr. Shiqi	National Science Foundation	NRI: FND: Knowledge-based Robot Sequential Decision Making under Uncertainty	100	\$12,819	\$0	\$12,819
Zhang, Dr. Shiqi	Ford Motor Company	Ford RIC Unrestricted Support	100	\$50,051	\$7,508	\$57,559

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Zhang, Dr. Yifan	Lockheed Martin Corporation	Supplier Development Efforts for the DARPA SSITH Program Phases 1-3	10	\$28,756	\$14,585	\$43,341
Zhang, Dr. Yifan	National Science Foundation	CAREER: Enabling Edge-hosted Private Services via Unikernel based Lightweight Virtualization	100	\$29,461	\$16,244	\$45,706
Zhang, Dr. Yifan	National Science Foundation	CAREER: Enabling Edge-hosted Private Services via Unikernel based Lightweight Virtualization	100	\$1,000	\$0	\$1,000

Department Total: \$2,167,993

020 Economics

Yang, Dr. Zili	Yale University	DICE/RICE Modeling Works for Yale Climate Change Research Program (YCCPR)	100	\$36,186	\$3,619	\$39,804
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Department Total: \$39,804

020 Electrical and Computer Engineering

Akyol, Dr. Emrah	National Science Foundation	CIF: Small: Strategic Communication: Concepts, Methods, and Applications	100	\$63,702	\$33,625	\$97,327
Chen, Dr. Yu	National Science Foundation	EAGER: SaTC: SAVED: Secure Audio and Video Data from Deepfake Attacks Leveraging Environmental Fingerprints	100	\$25,211	\$13,273	\$38,484
Chen, Dr. Yu	Technergetics Limited Liability Company	Drones, Phones, and Cones: The IoT Sensing Grid	100	\$4,119	\$2,348	\$6,467
Chen, Dr. Yu	US Air Force Office of Scientific Research	ERSES-5G: Integrated 5G Imaging and Communication Surveillance as an Edge Service Secured by a Lightweight Environmental Fingerprint Consensus Blockchain	50	\$1,043	\$595	\$1,638
Choi, Dr. Seokheun	National Science Foundation	Unlocking the Promise of Bacterial Electrogenicity	100	\$9,153	\$5,217	\$14,370

<u><i>Investigator</i></u>	<u><i>Sponsor Name</i></u>	<u><i>Award Title</i></u>	<u><i>% Credited to Investigator</i></u>	<u><i>Direct Costs Expended</i></u>	<u><i>F & A Expended</i></u>	<u><i>Total Expended</i></u>
Choi, Dr. Seokheun	US Navy Office of Naval Research	Supercapacitive Micro-Bio-Photovoltaics for Sustainable Wireless Sensor Networks	100	\$108,967	\$54,173	\$163,140
Choi, Dr. Seokheun	National Science Foundation	Power-On-Skin: Energy Generation from Sweat-Eating Bacteria for Self-Powered Electronic Skins	60	\$47,532	\$25,583	\$73,115
Choi, Dr. Seokheun	National Science Foundation	Stretchable Papertronics	50	\$22,811	\$9,779	\$32,590
Das, Dr. Pritam	NYS Energy Research and Development Authority	Agreement 127609- A Flexible Storage Plus Distributed Energy Resource (DER) Solution for Warehouse Energy Management	40	\$46,206	\$24,311	\$70,516
Das, Dr. Pritam	Purdue University	CHIRP: Higher Voltage Package Power Delivery and Power Management Systems for High-End SiPs (Proposal Number W32609)	50	\$12,533	\$7,144	\$19,677
Das, Dr. Pritam	NYS Energy Research and Development Authority	Feasibility Study of an Onboard XFC/Motor Drive System with Extended Lifetime Batteries Agreement No. 138104	100	\$60,133	\$34,276	\$94,409
Das, Dr. Pritam	National Science Foundation	I-Corps - Vanadium Redox Flow Batteries for Small Urban Businesses	100	\$35,314	\$3,923	\$39,238
Dhakal, Dr. Tara Prasad	National Science Foundation	MRI: Acquisition of a Hard X-Ray PhotoElectron Spectroscopy (HAXPES) for the Institute for Materials Research (IMR) at Binghamton University (BU)	10	\$28,160	\$0	\$28,160
Dhakal, Dr. Tara Prasad	Empire State Development Corp	Match to Improved ECG Monitor with Capacitive Electrodes	30	\$10,129	\$5,773	\$15,902
Dhakal, Dr. Tara Prasad	GVD Corporation	SBIR Phase II: Reduced Environmental Controls in Perovskite Solar Cell Manufacturing Enabled by Vacuum-Deposited Gas Barrier Coatings	100	\$43,870	\$21,037	\$64,907
Dhakal, Dr. Tara Prasad	National Science Foundation	CAREER: Toward Twenty Year Lifetime: Hermetic Sealing for Perovskite Solar Cells	100	\$66,767	\$36,959	\$103,726

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Dhakal, Dr. Tara Prasad	Flex Tech Alliance	Improved ECG Monitor with Capacitive Electrodes	30	\$10,877	\$6,035	\$16,912
Dhakal, Dr. Tara Prasad	National Science Foundation	PFI-TT: Next Generation High Energy Storage, Light Weight Capacitors	50	\$21,858	\$9,377	\$31,235
Fridrich, Dr. Jessica J.	National Science Foundation	TWC: Medium: Steganography in Empirical Sources Using Acquisition Oracle	100	\$47,841	\$25,253	\$73,095
Fridrich, Dr. Jessica J.	US Air Force Research Laboratory	New Generation of Image Processing History and Manipulation Detection Techniques with Vectorized Context-Aware Descriptors	50	\$34,089	\$18,749	\$52,838
Fridrich, Dr. Jessica J.	National Science Foundation	SaTC: CORE: Medium: Steganography Based on Sensor Capture Models: Replacing Heuristics with Model-Based Designs	100	\$34,860	\$17,699	\$52,559
Goljan, Dr. Miroslav	US Air Force Research Laboratory	New Generation of Image Processing History and Manipulation Detection Techniques with Vectorized Context-Aware Descriptors	50	\$34,089	\$18,749	\$52,838
Klotzkin, Dr. David	National Science Foundation	Scholarships and Nanofabrication Experience: Successful Transitions from Community College to Graduate School	25	\$6,657	\$0	\$6,657
Klotzkin, Dr. David	National Science Foundation	Scholarships and Nanofabrication Experience: Successful Transitions from Community College to Graduate School	25	(\$2,133)	\$316	(\$1,817)
Klotzkin, Dr. David	Source Photonics Incorporated	Comprehensive Optimization of High-Speed Directly Modulated 25Gb/s Devices	100	\$5,916	\$3,372	\$9,288
Li, Dr. Jian	National Science Foundation	CRII: CNS: NeTS: Adaptive Cache Dimensioning in Cloud CDNs: Foundations and Practice	100	\$1,867	\$1,064	\$2,931
Li, Dr. Xiaohua	US Air Force Office of Scientific Research	ERSES-5G: Integrated 5G Imaging and Communication Surveillance as an Edge Service Secured by a Lightweight Environmental Fingerprint Consensus Blockchain	50	\$1,043	\$595	\$1,638

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Summerville, Dr. Douglas H	Assured Information Security Incorporated	Safeguards Against Hidden Effects and Anomalous Trojans in Hardware Agreement Number HR0011-20-9-0006	100	\$3,411	\$1,944	\$5,355
Summerville, Dr. Douglas H	Lockheed Martin Corporation	Assured and Trusted Microelectronics Solutions-FPGA Assurance- Tamper Detection- Chameleon Circuit	100	\$149,451	\$81,965	\$231,416
Summerville, Dr. Douglas H	Jaunt Air Mobility LLC	The Development of Extreme Fast Charging (XFC) Solutions to Support Electric Aircraft Development and Large-scale Production and Fleet Support	100	\$13,716	\$7,818	\$21,534
Summerville, Dr. Douglas H	National Science Foundation	Scholarship Program for Master's Degree Seeking Students in Engineering	33	\$298	\$164	\$462
Zahorian, Mr. Stephen A.	National Science Foundation	Scholarship Program for Master's Degree Seeking Students in Engineering	34	\$307	\$169	\$476
Zhang, Dr. Ziang	NYS Energy Research and Development Authority	Agreement 127609- A Flexible Storage Plus Distributed Energy Resource (DER) Solution for Warehouse Energy Management	60	\$69,308	\$36,466	\$105,774
Zhang, Dr. Ziang	National Science Foundation	PFI-TT: Next Generation High Energy Storage, Light Weight Capacitors	20	\$8,743	\$3,751	\$12,494
Zhou, Dr. Ning	Pacific Northwest National Laboratory	Algorithm Development for Hybrid State Estimation - FY18 Work Performed at Binghamton University, Binghamton NY United States	100	\$16,020	\$7,422	\$23,442
Zhou, Dr. Ning	National Science Foundation	CAREER: Integrated Dynamic State Estimation for Monitoring Power Systems Under High Uncertainty and Variation	100	\$64,806	\$32,642	\$97,448
Zhou, Dr. Ning	Pacific Northwest National Laboratory	Correlation Analysis of Wide-Area Oscillations in the Eastern Interconnection	100	\$54,113	\$24,688	\$78,801

Department Total: \$1,739,040

020 Entrepreneurship and Innovation Partnership

<u><i>Investigator</i></u>	<u><i>Sponsor Name</i></u>	<u><i>Award Title</i></u>	<u><i>% Credited to Investigator</i></u>	<u><i>Direct Costs Expended</i></u>	<u><i>F & A Expended</i></u>	<u><i>Total Expended</i></u>
Iankova- TERMED, Ms. Elena	Multiple Sponsors	Export NY Coordinator and Continued CIBA Activities	100	\$10,067	\$1,510	\$11,577
McKeage, Mr. Louis G	Economic Development Administration	Trade Adjustment Assistance Center Service New York, New Jersey, and the Commonwealth of Puerto Rico	100	\$176,760	\$33,938	\$210,698
McKeage, Mr. Louis G	Multiple Sponsors	TAAC Income Account	100	\$3,587	\$0	\$3,587
McKeage, Mr. Louis G	Economic Development Administration	Trade Adjustment Assistance Center Serving NY, NJ, and the Commonwealth of Puerto Rico	100	\$96,942	\$0	\$96,942
McKeage, Mr. Louis G	Economic Development Administration	Trade Adjustment Assistance Center Serving NY, NJ, and the Commonwealth of Puerto Rico	100	\$293,116	\$56,086	\$349,203
McKeage, Mr. Louis G	Economic Development Administration	Trade Adjustment Assistance Center Service New York, New Jersey, and the Commonwealth of Puerto Rico	100	\$131,633	\$0	\$131,633
Petrova, Dr. Olga	VentureWell	KLAW Industries- Recycled Glass Pozzolan	50	\$2,500	\$0	\$2,500
Petrova, Dr. Olga	National Science Foundation	I-Corps: Manufacturing Process for Recycled Glass Pozzolan	100	\$26,319	\$2,924	\$29,243
Stromhaug, Dr. Per	Cornell University	76West Clean Energy Southern Tier Showcase	100	\$11,905	\$3,095	\$15,000
Stromhaug, Dr. Per	VentureWell	KLAW Industries- Recycled Glass Pozzolan	50	\$2,500	\$0	\$2,500
Stromhaug, Dr. Per	Economic Development Administration	EDA i6 Challenge Binghamton XCEEDs	100	\$103,804	\$15,860	\$119,664

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Stromhaug, Dr. Per	NYS Department of Economic Development	Binghamton University's Business Incubator Program	100	\$27,604	\$0	\$27,604
Stromhaug, Dr. Per	NYS Department of Economic Development	Binghamton University's Business Incubator Program	100	\$97,267	\$0	\$97,267
Stromhaug, Dr. Per	NYS Energy Research and Development Authority	Southern Tier Clean Energy Incubator-NYSERDA 110470	100	\$3,000	\$0	\$3,000
Stromhaug, Dr. Per	NYS Energy Research and Development Authority	Southern Tier Clean Energy Incubator-NYSERDA 110470	100	\$303,463	\$78,900	\$382,363
Stromhaug, Dr. Per	National Science Foundation	Type 1: Innovation Binghamton NSF I-Corps Site	100	\$27,387	\$15,611	\$42,998
Stromhaug, Dr. Per	National Science Foundation	Type 1: Innovation Binghamton NSF I-Corps Site	100	\$21,663	\$0	\$21,663
Stromhaug, Dr. Per	NYS Energy Research and Development Authority	Southern Tier Clean Energy Incubator-NYSERDA 110470	100	\$75,379	\$19,599	\$94,978
Stromhaug, Dr. Per	NYS Energy Research and Development Authority	Agreement 154461: empowerST: Empowering Energy Storage Entrepreneurship in the Southern Tier	50	\$1,188	\$677	\$1,865
Department Total:				\$1,644,285		

020 Geological Sci & Environmental Studies

de Smet, Dr. Timothy	Cornell University	104B State Water Resources Research Institute Program	50	\$10,000	\$0	\$10,000
de Smet, Dr. Timothy	National Science Foundation	I-Corps: An integrated wide-area unmanned aerial vehicle (UAV) aeromagnetic survey system targeting orphaned oil and gas wells	50	\$8,149	\$905	\$9,054

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Jenkins, Dr. David M	National Science Foundation	Stability and Thermochemistry of some Chlorine-Bearing Calcium Amphiboles	100	\$30,239	\$16,699	\$46,938
Lowenstein, Dr. Tim K	US Israel Binational Science Foundation	Evaporite deposition in deep hypersaline basins: New insights from modern halite in the Dead Sea	100	\$19,024	\$2,854	\$21,878
Lowenstein, Dr. Tim K	National Science Foundation	Collaborative Research: Anatomy of a Greenhouse World: The Early Eocene of the Green River Basin, Wyoming	100	\$31,515	\$8,194	\$39,709
Lowenstein, Dr. Tim K	National Science Foundation	Collaborative Research: Regional hydrologic and vegetation changes over the last 150 kyr in the Searles and Death Valley basins	100	\$44,785	\$24,991	\$69,776
Nikulin, Dr. Alex	American Chemical Society	Unconventional Seismic Imaging in Unconventional Reservoir Characterization : A Passive-Source Seismic Investigation of the Marcellus and Utica Shale Plays	100	\$33,467	\$0	\$33,467
Nikulin, Dr. Alex	National Science Foundation	I-Corps: An integrated wide-area unmanned aerial vehicle (UAV) aeromagnetic survey system targeting orphaned oil and gas wells	50	\$8,149	\$905	\$9,054
Patterson, Dr. Molly	Columbia University	US Science Support Program Office associated with the International Ocean Discovery Program (USSSP-IODP)	100	\$4,340	\$2,474	\$6,814
Patterson, Dr. Molly	National Science Foundation	COLLABORATIVE RESEARCH: Orbital-scale Variability of the West Antarctic Ice Sheet and the Formation of Bottom Water in the Ross Sea during Pliocene-Pleistocene	100	\$4,096	\$1,065	\$5,160
Pietras, Dr. Jeffrey T	Foundation of SUNY at Binghamton	Start Up Support Provided by Private Donor	100	\$1,328	\$0	\$1,328

Department Total: \$253,179

020 Graduate School Dean

Mahler, Dr. Gretchen J	National Science Foundation	Graduate Research Fellowship Program	100	\$45,466	\$0	\$45,466
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<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Mahler, Dr. Gretchen J	Foundation of SUNY at Binghamton	Graduate Assistant Salaries/Fellowship Support Funded Through BU Foundation Accounts	100	\$104,648	\$0	\$104,648
Mahler, Dr. Gretchen J	National Science Foundation	Graduate Research Fellowship Program	100	\$44,068	\$0	\$44,068
Department Total:				\$194,182		
020 Health and Wellness Studies						
Begdache, Ms. Lina A	Experiment.com	What are the benefits of a Mediterranean diet on mood?	100	\$1,738	\$0	\$1,738
Begdache, Ms. Lina A	Nano-Bio Materials Consortium	Epifluidics for Stress Monitoring	25	\$13,841	\$6,179	\$20,020
Department Total:				\$21,758		
020 Health Outcomes and Administrative Sciences						
Dang, Dr. Utkarsh J	Foundation to Eradicate Duchenne	Defining Serum Biomarkers of Early-Age Severity for DMD - Statistical Research Using Vamorolone 002 Data	100	\$1,335	\$133	\$1,468
Dang, Dr. Utkarsh J	Foundation to Eradicate Duchenne	Defining prognostic models of future clinical trajectories in Duchenne Muscular Dystrophy	100	\$18,913	\$1,891	\$20,804
Department Total:				\$22,272		
020 History						
Camiscioli, Ms. Elisa	National Endowment for the Humanities	Trafficking, Travel, and Illicit Migration in the Early Twentieth-Century French Atlantic World	100	\$59,953	\$0	\$59,953
Wheeler, Dr. Leigh Ann	National Endowment for the Humanities	A Biography of American Author and Civil Rights Activist Anne Moody (1940-2015)	100	\$2,594	\$0	\$2,594
Department Total:				\$62,547		

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
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020 Library Administration

Parks, Ms. Heather	NYS Education Department	Conservation & Preservation 2020-2021	100	\$26,111	\$0	\$26,111
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Department Total: \$26,111

020 Mathematical Sciences

Chen, Dr. Mei-Hsiu	National Science Foundation	Mechanobiology of Myofibroblast Behavior in Health and Disease	25	\$25,976	\$14,135	\$40,112
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Dang, Ms. Sanjeena	Simons Foundation	A variational approach for clustering high dimensional discrete data	100	\$634	\$127	\$761
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Dang, Ms. Sanjeena	National Institute of General Medical Sciences	Laboratory Selection for Drosophila Melanogaster Genetic Variants that Confer Increased Survival on a Diabetogenic Diet	15	\$8,517	\$4,854	\$13,371
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Malkiewich, Dr. Cary	National Science Foundation	Algebraic K-Theory in Fixed-Point Theory and Smooth Manifolds	100	\$9,440	\$5,381	\$14,821
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Ontaneda, Dr. Pedro	National Science Foundation	Challenges in Negative and Nonpositive Curvature	100	\$44,857	\$25,568	\$70,425
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Polunchenko, Dr. Aleksey S	Simons Foundation	New advances in quickest change-point detection with applications	100	\$262	\$44	\$306
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Zhou, Dr. Gang	Simons Foundation	Mathematical problems in non-equilibrium statistical mechanics, and singularities formed by geometric flows	100	\$1,493	\$299	\$1,791
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Department Total: \$141,587

020 Mechanical Engineering

Chiarot, Dr. Paul	National Science Foundation	CAREER: Additive Manufacturing using Electro spray Printing of Nanoparticle Inks	100	\$45,274	\$24,112	\$69,385
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<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Chiarot, Dr. Paul	National Institutes of Health	Perivascular Transport of Solutes from the Brain	34	\$3,302	\$1,027	\$4,328
Chiarot, Dr. Paul	Purdue University	Chiarot 2020 SRC CHIRP: Conformal Polymeric Thin Films Manufacturing Using Electrospray Printing	100	\$32,126	\$18,312	\$50,437
Chiarot, Dr. Paul	National Science Foundation	Capillary-Assisted Printing of Structured Colloidal Monolayers	33	\$16,981	\$7,552	\$24,533
Cho, Dr. Junghyun	Honeywell Federal Manufacturing & Technologies LLC	PDRD-Conformal Coating Tin Whiskers (YR 2)	100	\$53,152	\$29,747	\$82,899
Cho, Dr. Junghyun	Honeywell Federal Manufacturing & Technologies LLC	PDRD-Conformal Coating Tine Whiskers year 3 Rev. 2	100	\$27,518	\$15,136	\$42,654
Cho, Dr. Junghyun	Universal Instruments Corporation	Electronic Assembly Solder Alloy Development	100	\$90	\$23	\$114
Huang, Dr. Pong-Yu	National Science Foundation	Capillary-Assisted Printing of Structured Colloidal Monolayers	33	\$16,981	\$7,552	\$24,533
Huang, Dr. Pong-Yu	National Science Foundation	Mechanobiology of Myofibroblast Behavior in Health and Disease	25	\$25,976	\$14,135	\$40,112
Huang, Dr. Pong-Yu	National Institutes of Health	Perivascular Transport of Solutes from the Brain	33	\$3,204	\$996	\$4,201
Jin, Dr. Congrui	Battelle Energy Alliance LLC	Mechanics in Hydrogen Production SOW-15976	100	\$8,258	\$4,707	\$12,965
Ke, Dr. Changhong	National Inst on Deafness & Other Comm Disorders	Capacitive Pressure/ Velocity Probe for Acoustic Measurements in the Human Ear Canal	33	\$63,755	\$31,182	\$94,937

<u><i>Investigator</i></u>	<u><i>Sponsor Name</i></u>	<u><i>Award Title</i></u>	<u><i>% Credited to Investigator</i></u>	<u><i>Direct Costs Expended</i></u>	<u><i>F & A Expended</i></u>	<u><i>Total Expended</i></u>
Ke, Dr. Changhong	National Science Foundation	PFI-TTT: Enhanced Electronic Cooling via 3D Printing from Additive Laser Fabrication of Heat Removal Devices	25	\$22,962	\$12,589	\$35,551
Ke, Dr. Changhong	National Science Foundation	Multiple-Energy- Assisted Ultrasharp Probe-Based Nanomanufacturing for High-Resolution and High-Efficiency Nanopatterning	50	\$30,511	\$16,842	\$47,353
Ke, Dr. Changhong	National Science Foundation	Collaborative Research: Exploiting Nanoscale Interfaces to Enhance Bulk Mechanical Response of Additively Manufactured Boron Nitride Nanotube-Metal Composites	100	\$8,917	\$5,082	\$13,999
Ke, Dr. Changhong	Cornell University	NASA NY Space Grant Consortium	100	\$8,000	\$0	\$8,000
Miles, Dr. Ronald N	National Inst on Deafness & Other Comm Disorders	Capacitive Pressure/ Velocity Probe for Acoustic Measurements in the Human Ear Canal	67	\$129,442	\$63,309	\$192,751
Murray, Dr. Bruce T	National Science Foundation	Mechanobiology of Myofibroblast Behavior in Health and Disease	25	\$25,976	\$14,135	\$40,112
Park, Dr. Seungbae	Purdue University	CHIRP: Minimizing Thermal Interfacial Resistance in Heterogeneous Integrated Integration (HI): A Benchmarking Study and Production Tool (Proposal Number W32613)	25	\$5,701	\$3,250	\$8,951
Park, Dr. Seungbae	Koh Young Technology Incorporated	Development of Closed-Loop Control and Optimization Modules of the Printed Circuit Board Assembly Processes in Surface Mount Technology	34	\$477	\$272	\$749
Park, Dr. Seungbae	Purdue University	Radiation-Hard Microelectronics Workforce Development Consortium Subagreement No. 13000844-021	33	\$6,267	\$2,444	\$8,711
Park, Dr. Seungbae	Applied Materials	Design, Develop and Demonstrate a True 3D Packaging	25	\$3,786	\$1,303	\$5,089

<u><i>Investigator</i></u>	<u><i>Sponsor Name</i></u>	<u><i>Award Title</i></u>	<u><i>% Credited to Investigator</i></u>	<u><i>Direct Costs Expended</i></u>	<u><i>F & A Expended</i></u>	<u><i>Total Expended</i></u>
Park, Dr. Seungbae	Koh Young Technology Incorporated	Development of Pick and Placement Machine On/Offline Optimization and Diagnosis Modules in Printed Circuit Board Assembly Process	34	\$1,965	\$0	\$1,965
Park, Dr. Seungbae	Koh Young Technology Incorporated	Development of Pick and Placement Machine On/Offline Optimization and Diagnosis Modules in Printed Circuit Board Assembly Process	34	\$32,321	\$18,423	\$50,744
Park, Dr. Seungbae	Koh Young Technology Incorporated	Process Failure Mode Effect Analysis & Development of Printer Advising/ Online Modules in Printed Circuit Board Assembly Process	75	\$62,214	\$34,840	\$97,053
Park, Dr. Seungbae	SUNY Applied Materials Research Institute	Design, Develop and Demonstrate a True 3D Packaging	25	\$512	\$264	\$777
Pitarresi, Dr. James	National Science Foundation	Scholarship Program for Master's Degree Seeking Students in Engineering	33	\$298	\$164	\$462
Pitarresi, Dr. James	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$41,948	\$15,420	\$57,367
Pitarresi, Dr. James	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$86,387	\$0	\$86,387
Sammakia, Dr. Bahgat G	NVIDIA Corporation	Liquid to Air Data Center Cooling Lab Development	50	\$15,915	\$9,072	\$24,987
Sammakia, Dr. Bahgat G	NASA NY Space Grant Consortium	AeroBing Rocketry Research Group	100	\$803	\$0	\$803
Sammakia, Dr. Bahgat G	Purdue University	Radiation-Hard Microelectronics Workforce Development Consortium Subagreement No. 13000844-021	34	\$6,457	\$2,518	\$8,975
Sammakia, Dr. Bahgat G	SUNY Applied Materials Research Institute	Design, Develop and Demonstrate a True 3D Packaging	25	\$512	\$264	\$777

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Sammakia, Dr. Bahgat G	Applied Materials	Design, Develop and Demonstrate a True 3D Packaging	25	\$3,786	\$1,303	\$5,089
Sammakia, Dr. Bahgat G	Purdue University	CHIRP: Minimizing Thermal Interfacial Resistance in Heterogeneous Integrated Integration (HI): A Benchmarking Study and Production Tool (Proposal Number W32613)	25	\$5,701	\$3,250	\$8,951
Sammakia, Dr. Bahgat G	Purdue University	Sammakia 2020 SRC CHIRP: Design, Fabrication, and Testing of Metal Porous Media for Thermal Capacitor and Immersion Cooling Applications	100	\$20,717	\$11,809	\$32,526
Sammakia, Dr. Bahgat G	Multiple Sponsors	Sounding Rocket Design	100	\$4,712	\$0	\$4,712
Sammakia, Dr. Bahgat G	Purdue University	CHIRP: Direct Liquid and Two Phase Cooling of High Heat Flux Electronics in Heterogeneous Integrated (HI) Packages: Experimental and Analytical Studies at the Device and Module Levels (Proposal Number W32612)	34	\$5,482	\$3,125	\$8,607
Sammakia, Dr. Bahgat G	Purdue University	CHIRP: Exploration of Holistic Scaleout Designs Within Heterogeneous Packages for HPC/Server Processors (Proposal Number	50	\$19,231	\$10,961	\$30,192
Sammakia, Dr. Bahgat G	National Science Foundation	PFI-TTT: Enhanced Electronic Cooling via 3D Printing from Additive Laser Fabrication of Heat Removal Devices	25	\$22,962	\$12,589	\$35,551
Schiffres, Dr. Scott	Cardinal Health 200 Limited Liability Company	Materials Testing Agreement - Screening of Spunbond-Meltdown-Spunbond Polymers for Filtration	100	\$10,225	\$2,556	\$12,781
Schiffres, Dr. Scott	Purdue University	Radiation-Hard Microelectronics Workforce Development Consortium Subagreement No. 13000844-021	33	\$6,267	\$2,444	\$8,711
Schiffres, Dr. Scott	SUNY Applied Materials Research Institute	Design, Develop and Demonstrate a True 3D Packaging	25	\$512	\$264	\$777

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Schiffres, Dr. Scott	Intuitive Foundation	COVID: Mask Filtration and Pressure Drop Testing	100	\$4,945	\$1,236	\$6,182
Schiffres, Dr. Scott	National Science Foundation	PFI-TTT: Enhanced Electronic Cooling via 3D Printing from Additive Laser Fabrication of Heat Removal Devices	50	\$45,925	\$25,177	\$71,102
Schiffres, Dr. Scott	Purdue University	CHIRP: Minimizing Thermal Interfacial Resistance in Heterogeneous Integrated Integration (HI): A Benchmarking Study and Production Tool (Proposal Number W32613)	50	\$11,403	\$6,500	\$17,902
Schiffres, Dr. Scott	Purdue University	CHIRP: Direct Liquid and Two Phase Cooling of High Heat Flux Electronics in Heterogeneous Integrated (HI) Packages: Experimental and Analytical Studies at the Device and Module Levels (Proposal Number W32612)	33	\$5,321	\$3,033	\$8,354
Schiffres, Dr. Scott	National Science Foundation	CAREER: Intermetallic Interfacial Thermal Transport for Advanced Electronics Manufacturing	100	\$963	\$0	\$963
Schiffres, Dr. Scott	National Science Foundation	CAREER: Intermetallic Interfacial Thermal Transport for Advanced Electronics Manufacturing	100	\$59,664	\$34,008	\$93,672
Schiffres, Dr. Scott	Semiconductor Research Corporation	SRC Undergraduate Research Program (Matt Heitner)	100	\$2,500	\$0	\$2,500
Schiffres, Dr. Scott	Applied Materials	Design, Develop and Demonstrate a True 3D Packaging	25	\$3,786	\$1,303	\$5,089
Towfighian, Dr. Shahrzad	National Inst of Arthritis Musculoskeletal & Skin	An implantable self-powered load sensor for total knee replacement health monitoring	100	\$8,678	\$3,738	\$12,415
Towfighian, Dr. Shahrzad	National Science Foundation	MEMS High Voltage Triboelectric Levitation: A Generactuator	100	\$32,316	\$17,871	\$50,187

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Wang, Dr. Hao	Charge CCCV	Unrestricted Research Support	100	\$323	\$48	\$371
Yong, Dr. Xin Frank	National Science Foundation	Capillary-Assisted Printing of Structured Colloidal Monolayers	34	\$17,496	\$7,781	\$25,277
Yong, Dr. Xin Frank	National Institute of General Medical Sciences	Small-molecule membrane interactions as a driver of bacterial outer membrane vesicle biogenesis across species	50	\$8,845	\$5,041	\$13,886
Zhou, Dr. Guangwen	Pacific Northwest National Laboratory	Materials Synthesis and Simulations Across Scales (MS3), Richland, WA, USA	100	\$11,578	\$2,760	\$14,338
Zhou, Dr. Guangwen	Pacific Northwest National Laboratory	Materials Synthesis and Simulations Across Scales (MS3), All work is being conducted in Richland, WA, USA	100	\$12,076	\$2,924	\$15,000
Zhou, Dr. Guangwen	Empire State Development Corp	HTMG: EFRC-NE Center of Energy Storage	12.5	\$28,535	\$0	\$28,535
Zhou, Dr. Guangwen	US Department of Energy	In Situ Visualization and Theoretical Modeling of Early Stages of Oxidation of Metals and Alloys	100	\$85,927	\$45,136	\$131,063
Zhou, Dr. Guangwen	US Department of Energy	Northeast Center for Chemical Energy Storage(NECCES)	5	\$14,201	\$3,725	\$17,926
Zhou, Dr. Guangwen	National Science Foundation	Collaborative Research: Coordinated In-Situ Dynamic Experiments and Atomistic Modeling of Surface Segregation in Alloys	100	\$35,976	\$19,408	\$55,384
Zhou, Dr. Guangwen	National Science Foundation	MRI: Acquisition of a Hard X-Ray PhotoElectron Spectroscopy (HAXPES) for the Institute for Materials Research (IMR) at Binghamton University (BU)	10	\$28,160	\$0	\$28,160
Department Total:				\$1,888,863		

020 Pharmaceutical Sciences

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Beedle -DO NOT USE-, Dr. Aaron	Muscular Dystrophy Association of America	Is MTOR inhibition a valid therapy for dystroglycan muscular dystrophy	100	\$7,604	\$760	\$8,364
Brooks, Dr. Tracy	National Cancer Institute	Synthesis and Optimization of antibody: DNAi conjugates targeting the MYC G4	50	\$37,097	\$21,145	\$58,243
Edwards, Dr. Katie	Childrens Research Institute	Bridging pharmacodynamic biomarkers to clinical outcomes in pediatric inflammatory diseases (2020-2021)	100	\$30,083	\$17,148	\$47,231
Hathout, Dr. Yetrib	Childrens Research Institute	Bridging Pharmacodynamic Biomarkers to Clinical Outcomes in Pediatric Inflammatory Diseases	100	\$135,152	\$69,492	\$204,644
Hathout, Dr. Yetrib	US Army Medical Research Acquisition Activity	Generating the Evidentiary Data Package for Dystrophin Biomarker Qualifications	100	\$30,820	\$728	\$31,547
Hathout, Dr. Yetrib	US Army Medical Research Acquisition Activity	Clinical Utility of Serum Protein Biomarkers in Very Young Duchenne Muscular Dystrophy Boys	100	\$67,153	\$5,129	\$72,282
Hathout, Dr. Yetrib	Childrens Research Institute	Bridging Pharmacodynamic Biomarkers to Clinical Outcomes in Pediatric Inflammatory Diseases	100	\$10,284	\$5,862	\$16,146
Hathout, Dr. Yetrib	ReveraGen Biopharma Incorporated	A biomarker and patient-reported outcomes study in Becker muscular dystrophy patients	100	\$16,510	\$4,127	\$20,637
Nagaraju, Dr. Kanneboyina	Parent Project for Muscular Dystrophy Research Inc	Targeting the innate immune system to block acute inflammatory and chronic immune responses to transgene and AAV vector in DMD	100	\$16,760	\$0	\$16,760
Nagaraju, Dr. Kanneboyina	Foundation to Eradicate Duchenne	Immune response to dystrophin after Etiperson treatment in Duchenne Muscular Dystrophy Children	100	\$29,654	\$2,965	\$32,620
Nagaraju, Dr. Kanneboyina	CURE JM Foundation	Testing and screening potential compounds for efficacy in a mouse model of myositis and the effect of Type 1 Interferon on muscle function and weakness in myositis	100	\$17,311	\$0	\$17,311

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Nagaraju, Dr. Kanneboyina	Childrens Research Institute	Understanding the Mechanism and Role of Cell Membrane Repair in Miyoshi Myopathy- Year 3	100	\$3,083	\$1,757	\$4,841
Nagaraju, Dr. Kanneboyina	DB Therapeutics Incorporated	Unrestricted Research: DB Therapeutics in the area of radiotherapeutic bandage	100	\$57,890	\$8,684	\$66,574
Nagaraju, Dr. Kanneboyina	Parent Project for Muscular Dystrophy Research Inc	Effect of Immunomodulatory Treatments on Immune Response After Gene Correction in DMD	100	\$90,257	\$4,513	\$94,770
Nagaraju, Dr. Kanneboyina	Myositis Association	Role of Innate Immune and Metabolic Pathways in Mediating Muscle Weakness in Myositis	100	\$26,527	\$0	\$26,527
Tumey, Dr. L Nathan	National Institute of Allergy & Infectious Disease	Cell-specific blockage of TLR activation: A new strategy for addressing inflammatory disorders	100	\$131,329	\$74,857	\$206,186
Tumey, Dr. L Nathan	National Cancer Institute	Synthesis and Optimization of antibody: DNAi conjugates targeting the MYC G4	50	\$37,097	\$21,145	\$58,243

Department Total: \$982,925

020 Pharmacy Practice

Kufel, Dr. Wesley	American Society of Health System Pharmacists	Impact of a Pharmacist -Driven Collaborative Initiative for Staphylococcus Aureus Bacteremia Management	100	\$1,980	\$158	\$2,138
Mogul, Dr. Amanda	NYS Council of Health-system Pharmacists	Identifying Patients Inappropriately Prescribed Aspirin for Primary Prevention in a Primary Care Clinic	100	\$299	\$0	\$299

Department Total: \$2,437

020 Philosophy

Hassoun, Dr. Nicole	World Health Organization	Global Health Justice and Equitable Vaccine Allocation WHO Registration 2020/1074947-0	100	\$8,727	\$1,134	\$9,861
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<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Pensky, Dr. Maxim	Auschwitz Inst for the Prev of Genocide & Mass Atrocities	An Analysis of the Relation Between Speech Legitimizing Violence	50	\$543	\$27	\$570
Pensky, Dr. Maxim	Auschwitz Inst for the Prev of Genocide & Mass Atrocities	An Analysis of the Relation Between Speech Legitimizing Violence	50	\$4,762	\$238	\$5,000

Department Total: \$15,431

020 Physics Applied Physics & Astronomy

Aynajian, Dr. Pegor	National Science Foundation	CAREER: Visualizing Emergent Electronic States Near Quantum Phase Transitions	100	\$75,085	\$40,603	\$115,688
Cotts, Dr. Eric	National Science Foundation	Scholarships and Nanofabrication Experience: Successful Transitions from Community College to Graduate School	25	\$6,657	\$0	\$6,657
Cotts, Dr. Eric	National Science Foundation	Scholarships and Nanofabrication Experience: Successful Transitions from Community College to Graduate School	25	(\$2,133)	\$316	(\$1,817)
Cotts, Dr. Eric	Semiconductor Research Corporation	High Melt - Low Melt Solder Interconnect Structures for Organic Package on Package 200-300 um Pitch Enabling High Power Application with Rework	100	\$47,397	\$26,467	\$73,864
Cotts, Dr. Eric	Universal Instruments Corporation	Electromigration Characterization of Low Temperature Solder Alloys	100	\$17,371	\$4,517	\$21,888
Cotts, Dr. Eric	Universal Instruments Corporation	Electromigration Characterization of Low Temperature Solder Alloys	100	\$22,173	\$5,765	\$27,937
Kolmogorov, Dr. Alexey	National Science Foundation	Theory-Guided Discovery of Tin-Based Materials	100	\$55,526	\$31,113	\$86,639
Lawler, Dr. Michael	National Science Foundation	Collaborative Research: Integrating Physics and Generative Machine Learning Models for Inverse Materials Design	100	\$85,414	\$44,180	\$129,594

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Lawler, Dr. Michael	National Science Foundation	Collaborative Research: Machine Learning Methods for Multi-Disciplinary Multi-Scale Problems	100	\$48,074	\$26,865	\$74,939
Lee, Dr. Wei-Cheng	Georgia Institute of Technology	MURI - Cross-Disciplinary Electronic-Ionic Research Enabling Biologically Realistic Autonomous Learning (CEREBRAL)	100	\$973	\$545	\$1,518
Lee, Dr. Wei-Cheng	National Science Foundation	EAGER: Collaborative Research: Exploring Physics Guided Machine Learning for Accelerating Sensing and Physical Sciences	100	\$17,883	\$9,925	\$27,807
Lee, Dr. Wei-Cheng	Georgia Institute of Technology	MURI17: Cross-disciplinary Electronic-ionic Research Enabling Biologically Realistic Autonomous Learning (CEREBRAL)	100	\$58,305	\$33,234	\$91,539
Levy, Dr. Stephen	National Science Foundation	CAREER: DNA Transport Through Carbon Nanotubes	100	\$6,122	\$3,367	\$9,489
Margine, Dr. Elena Roxana	National Science Foundation	S12-SSE: Expanding the Scope of Materials Modeling with Electron Phonon Wannier (EPW) Software	100	\$94,712	\$52,888	\$147,600
Margine, Dr. Elena Roxana	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$41,948	\$15,420	\$57,367
Margine, Dr. Elena Roxana	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$86,387	\$0	\$86,387
Mativetsky, Dr. Jeffrey	National Science Foundation	CAREER: Charge Photogeneration and Transport in Organic Semiconductor Nanowires	100	\$38,877	\$19,793	\$58,670
Mativetsky, Dr. Jeffrey	National Science Foundation	REU Site: Renewable Energy Generation and Storage	100	\$77,707	\$13,453	\$91,161
Piper, Dr. Louis	National Science Foundation	MRI: Acquisition of a Hard X-Ray PhotoElectron Spectroscopy (HAXPES) for the Institute for Materials Research (IMR) at Binghamton University (BU)	60	\$168,960	\$0	\$168,960

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Piper, Dr. Louis	National Science Foundation	Rational Design of Oxide Cathode Coating for High Performance Li-ion Batteries	33	\$23,309	\$13,020	\$36,329
Piper, Dr. Louis	National Science Foundation	Rational Design of Oxide Cathode Coating for High Performance Li-ion Batteries	33	\$1,980	\$0	\$1,980
Piper, Dr. Louis	Empire State Development Corp	HTMG: EFRC-NE Center of Energy Storage	12.5	\$28,535	\$0	\$28,535
Piper, Dr. Louis	Georgia Institute of Technology	MURI - Cross-Disciplinary Electronic-Ionic Research Enabling Biologically Realistic Autonomous Learning (CEREBRAL)	100	\$17,376	\$9,731	\$27,107
Piper, Dr. Louis	National Science Foundation	DMREF: Collaborative Research: A Blueprint for Photocatalytic Water Splitting: Mapping Multidimensional Compositional Space to Simultaneously Optimize Thermodynamics and Kinetics	100	\$25,752	\$14,679	\$40,431
Piper, Dr. Louis	US Department of Energy	Northeast Center for Chemical Energy Storage(NECCES)	5.76	\$16,360	\$4,291	\$20,651
Piper, Dr. Louis	Research Corporation for Science Advancement	Scaling the sensitivity gap to probe interfaces of high voltage cathodes	100	\$10,238	\$1,024	\$11,261
Piper, Dr. Louis	Georgia Institute of Technology	MURI17: Cross-disciplinary Electronic-ionic Research Enabling Biologically Realistic Autonomous Learning (CEREBRAL)	100	\$107,425	\$60,696	\$168,121
Shim, Dr. Bonggu	National Science Foundation	Wavelength Scaling of Plasma and Spatio-Temporal Dynamics of Laser Filamentation in Solids	100	\$58,474	\$26,884	\$85,358
Shim, Dr. Bonggu	US Air Force Office of Scientific Research	Spatio-temporal visualization and control of nonlinear propagation and phase matching for high-order harmonic generation	100	\$51,699	\$26,495	\$78,193
Shim, Dr. Bonggu	National Science Foundation	Study of Wavelength Dependence of Plasma Collision Dynamics and Ionization Mechanism in Laser Solid Matter Interactions	100	\$67,071	\$37,133	\$104,204

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Smeu, Dr. Manuel	National Science Foundation	Rational Design of Oxide Cathode Coating for High Performance Li-ion Batteries	33	\$23,309	\$13,020	\$36,329
Smeu, Dr. Manuel	National Science Foundation	Rational Design of Oxide Cathode Coating for High Performance Li-ion Batteries	33	\$1,980	\$0	\$1,980
Yao, Ms. Lan	National Institute of General Medical Sciences	Rational Design of pH-Low Insertion Peptides for Cargo Delivery	30	\$21,101	\$12,028	\$33,129
Department Total:				\$1,949,496		
020 Political Science						
Clark, Dr. David	Leidos	Option 3 and 4- Mass Mobilization Data Project	100	\$4,671	\$2,616	\$7,287
Karakoc, Dr. Ekrem	University of Calgary	International Business in the Middle East and North Africa MENA: danger zones or the land of opportunity	100	\$3,236	\$0	\$3,236
Department Total:				\$10,524		
020 Psychology						
Balderrama-Durbin, Dr. Christina	ARK Psychology LLC	Clinical Placement Agreement	100	\$19,617	\$0	\$19,617
Balderrama-Durbin, Dr. Christina	United Health Services Hospitals Incorporated	Clinical Placement Agreement - UHS Orthopedics and Sports Medicine	100	\$23,000	\$0	\$23,000
Balderrama-Durbin, Dr. Christina	National Institute for Alcohol Abuse & Alcoholism	An Integrated Brief Alcohol and PTSD Intervention for Veterans in Primary Care	50	\$30,689	\$3,361	\$34,049
Balderrama-Durbin, Dr. Christina	National Institute for Alcohol Abuse & Alcoholism	An Integrated Brief Alcohol and PTSD Intervention for Veterans in Primary Care	50	\$7,492	\$4,270	\$11,762

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Balderrama-Durbin, Dr. Christina	Wright State University	Lesbian, Gay, and Bisexual Couples in the Military: A post DADT Examination of Relationship Health, Perceived Community Acceptance and Mission Readiness Subaward No. 670766-1	100	\$20,059	\$11,434	\$31,493
Bishop, Dr. Christopher	Howard Hughes Medical Institute	Howard Hughes Support - Freshman Research Immersion (FRI) Models	50	\$592	\$0	\$592
Bishop, Dr. Christopher	Renovo Neural Incorporated	Analyzing Biological Tissue Samples	100	\$57	\$32	\$89
Bishop, Dr. Christopher	University of North Texas Health Science Center	Increasing Nigral Tyrosine Hydroxylase Expression as a Mechanism of Exercise-Mediated Recovery: Evaluation in Toxin and Rat Parkinson's Disease Genetic Models HS763-0000154195/HS763-0000154199	100	\$84,299	\$48,051	\$132,350
Bishop, Dr. Christopher	Michigan State University	The Rat Pre-Formed Alpha-Synuclein Fibril Model of Parkinson's Disease -R33NS099416	100	\$14,485	\$8,256	\$22,741
Bishop, Dr. Christopher	Melior Discovery Incorporated	Melior Discovery Materials Testing Agreement	100	\$2,042	\$510	\$2,552
Bishop, Dr. Christopher	Michael J Fox Foundation	Chemogenetic and Pharmacological Targeting of the Raphe-Cortical Pathway to Reduce the Development and Expression of L-DOPA-induced Psychosis	100	\$59,547	\$7,285	\$66,831
Christodulu, Dr. Kristin V.	NYS Education Department	CARD Albany and Regional Center(s) for Autism Spectrum Disorders 20-21	100	\$10,088	\$807	\$10,895
Coles, Dr. Meredith	SiMmersion	Simulated Clinician Assessment for Cognitive Behavioral Therapy Skills (2020-2021) R01MH112625	50	\$25,767	\$14,430	\$40,197
Coles, Dr. Meredith	SiMmersion	Simulated Clinician Assessment for Cognitive Behavioral Therapy Skills R01MH112625	33.3	\$6,679	\$3,740	\$10,419

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Deak, Dr. Terrence	National Institute for Alcohol Abuse & Alcoholism	Development and Neuroadaptations in Alcohol and Addiction	33.4	\$32,534	\$2,603	\$35,136
Deak, Dr. Terrence	National Institute for Alcohol Abuse & Alcoholism	Development and Neuroadaptations in Alcohol and Addiction	33.3	\$45,252	\$3,217	\$48,469
Deak, Dr. Terrence	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	75	\$40,328	\$22,987	\$63,315
Deak, Dr. Terrence	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	75	\$24,113	\$13,744	\$37,857
Deak, Dr. Terrence	National Institute for Alcohol Abuse & Alcoholism	Long Lasting Effects of Adolescent Alcohol on Blood-Brain-Barrier Function	100	\$28,624	\$0	\$28,624
Deak, Dr. Terrence	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	100	\$37,150	\$21,176	\$58,326
Deak, Dr. Terrence	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	75	\$85,280	\$48,610	\$133,890
Deak, Dr. Terrence	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	50	\$77,504	\$39,426	\$116,930
Di Lorenzo, Dr. Patricia M	National Inst on Deafness & Other Comm Disorders	Temporal Coding in the Gustatory System of the Brain	100	\$279,839	\$139,629	\$419,468
Di Lorenzo, Dr. Patricia M	National Institute of General Medical Sciences	SUNY UPSTATE BRIDGES TO THE BACCALAUREATE PROGRAM (SUBBP)	50	\$108,353	\$8,668	\$117,021
Diaz, Dr. Marvin R	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	30	\$23,535	\$13,415	\$36,949

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Diaz, Dr. Marvin R	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	25	\$28,427	\$16,203	\$44,630
Diaz, Dr. Marvin R	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	30	\$39,374	\$22,443	\$61,817
Diaz, Dr. Marvin R	National Institute for Alcohol Abuse & Alcoholism	Impact of Prenatal Ethanol on BLA Synaptic Plasticity	50	\$46,106	\$26,012	\$72,118
Diaz, Dr. Marvin R	American Psychological Association	Moderate Prenatal Alchol Exposure on Gestational Day 12 Sex-Dependently Impairs Social Behavior in Adult Offspring: The Role of the Basolateral Amygdala-to-Prelimbic Prefrontal Cortex Projection	100	\$4,558	\$0	\$4,558
Diaz, Dr. Marvin R	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	25	\$13,443	\$7,662	\$21,105
Diaz, Dr. Marvin R	Research Society on Alcoholism	Moderate Prenatal Alcohol Exposure on Gestational Day 12 Sex-Dependently Impairs Social Behavior in Adult Offspring: The Role of the Basolateral Amygdala-to-Prelimbic Prefrontal Cortex Projection	100	\$1,852	\$0	\$1,852
Diaz, Dr. Marvin R	National Institute for Alcohol Abuse & Alcoholism	Prenatal Alcohol Exposure, CRF and Adolescent Anxiety	100	\$23,930	\$0	\$23,930
Gerhardstein, Dr. Peter C	National Institute of Mental Health	Attentional Biases for Affective Cues in Infants of Depressed Mothers	10	\$7,497	\$3,635	\$11,131
Gibb, Dr. Brandon E	National Institute of Mental Health	Attentional Biases for Affective Cues in Infants of Depressed Mothers	90	\$67,470	\$32,712	\$100,183
Gillis Mattson, Dr. Jennifer M	NYS Education Department	CARD Albany and NYS Regional Center(s) for Autism Spectrum Disorders	100	\$2,315	\$185	\$2,500

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Gillis Mattson, Dr. Jennifer M	Multiple Sponsors	Children's Unit for Treatment and Evaluation 2018-2019	100	(\$1,386)	(\$208)	(\$1,594)
Gillis Mattson, Dr. Jennifer M	Multiple Sponsors	Children's Unit for Treatment and Evaluation 2020-2021	100	\$2,950,942	\$442,575	\$3,393,517
Gillis Mattson, Dr. Jennifer M	NYS Education Department	CARD Albany and Regional Center(s) for Autism Spectrum Disorders	100	\$6,230	\$498	\$6,729
Gillis Mattson, Dr. Jennifer M	Multiple Sponsors	2019-2020 Children's Unit for Treatment and Evaluation	100	\$217,974	\$32,696	\$250,670
Gillis Mattson, Dr. Jennifer M	Multiple Sponsors	Support of the ICD Infrastructure	100	(\$2,436)	(\$365)	(\$2,802)
Gillis Mattson, Dr. Jennifer M	Order of the Eastern Star of New York	Autism Research	100	\$1,119	\$168	\$1,286
Gillis Mattson, Dr. Jennifer M	Multiple Sponsors	School District Income for SEDCAR/IDEA Funding	100	\$16,595	\$1,328	\$17,923
Gillis Mattson, Dr. Jennifer M	Multiple Sponsors	Children's Unit Special Programs/ Institute for Child Development	100	\$11,213	\$1,682	\$12,894
Gillis Mattson, Dr. Jennifer M	Multiple Sponsors	BRCASD Support	100	\$1,062	\$9	\$1,071
Harding, Dr. Thomas	ARK Psychology LLC	Clinical Placement Agreement Between Ark Psychology PLLC and the Research Foundatin for SUNY	100	\$1,161	\$0	\$1,161
Jentsch, Dr. James David	Regents of the University of California Los Angeles	Genetic Pathways for Impulsivity and Drug Reinforcement: DNA and Transcriptorne Variation in Mice (2020-2021)	100	\$215,353	\$122,751	\$338,104

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Jentsch, Dr. James David	National Institute for Alcohol Abuse & Alcoholism	Development and Neuroadaptations in Alcohol and Addiction	100	\$396	\$32	\$428
Jentsch, Dr. James David	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	100	\$3,060	\$0	\$3,060
Jentsch, Dr. James David	Jackson Laboratory	2020-2021 Center for Systems Neurogenetics of Addiction Subaward 210247-0421-06	100	\$94,112	\$52,175	\$146,288
Jentsch, Dr. James David	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	70	\$54,914	\$31,301	\$86,215
Jentsch, Dr. James David	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	70	\$91,873	\$52,368	\$144,241
Jentsch, Dr. James David	Board of Trustees of the Leland Stanford Junior University	Computational Methods for Identification of Genetic Factors Affecting the Response to Drug Abuse (U01DA044399)	100	\$10,736	\$6,119	\$16,855
Jentsch, Dr. James David	National Institute for Alcohol Abuse & Alcoholism	Development and Neuroadaptations in Alcohol and Addiction	33.4	\$45,388	\$3,226	\$48,614
Jentsch, Dr. James David	National Institute for Alcohol Abuse & Alcoholism	Development and Neuroadaptations in Alcohol and Addiction	33.3	\$32,436	\$2,595	\$35,031
Jentsch, Dr. James David	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	90	\$48,781	\$12,308	\$61,089
Karkhanis, Dr. Anushree N	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	100	\$10,889	\$6,207	\$17,095
Karkhanis, Dr. Anushree N	National Institute for Alcohol Abuse & Alcoholism	Impact on early life stress on accumbal kappa opioid signaling and ethanol intake	100	\$106,819	\$8,133	\$114,952

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Loney, Dr. Gregory	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	100	\$0	\$1,818	\$1,818
Mastroleo, Dr. Nadine	SiMmersion	Simulated Clinician Assessment for Cognitive Behavioral Therapy Skills (2020-2021) R01MH112625	50	\$25,767	\$14,430	\$40,197
Mastroleo, Dr. Nadine	Brown University	Behavioral Science and Biostatistics Resource Code for Alcohol-HIV Research Federal Award 5U24AA022003-06	100	\$2,323	\$1,278	\$3,601
Mastroleo, Dr. Nadine	Brown University	Enhancing the Efficacy and Duration of a Brief Alcohol Intervention Using Self-Affirmation	100	\$57,010	\$28,468	\$85,478
Mastroleo, Dr. Nadine	National Institute for Alcohol Abuse & Alcoholism	An Integrated Brief Alcohol and PTSD Intervention for Veterans in Primary Care	50	\$30,689	\$3,361	\$34,049
Savage, Dr. Lisa M	National Institute of General Medical Sciences	SUNY UPSTATE BRIDGES TO THE BACCALAUREATE PROGRAM (SUBBP)	50	\$108,353	\$8,668	\$117,021
Savage, Dr. Lisa M	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	100	\$117,551	\$67,004	\$184,556
Savage, Dr. Lisa M	National Institute for Alcohol Abuse & Alcoholism	7/8 NADIA U01 Recovery of Adolescent Alcohol Disruption of Basal Forebrain-Cortical Projection Circuits	100	\$86,249	\$49,162	\$135,412
Savage, Dr. Lisa M	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	100	\$67,388	\$32,583	\$99,972
Savage, Dr. Lisa M	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	50	\$77,504	\$39,426	\$116,930
Savage, Dr. Lisa M	National Institute for Alcohol Abuse & Alcoholism	Development and Neuroadaptations in Alcohol and Addiction	33.3	\$45,252	\$3,217	\$48,469

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Savage, Dr. Lisa M	National Institute for Alcohol Abuse & Alcoholism	Development and Neuroadaptations in Alcohol and Addiction	33.3	\$32,436	\$2,595	\$35,031
Spear, Dr. Linda	National Institute for Alcohol Abuse & Alcoholism	2/8 NADIA U01 Adolescent Alcohol: exposure timing, sex differences, and neural contributors to persistent anxiety and adolescent phenotypes	60	\$54,218	\$24,161	\$78,379
Spear, Dr. Linda	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	34	\$34,616	\$9,072	\$43,688
Spear, Dr. Linda	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	25	\$8,038	\$4,581	\$12,619
Spear, Dr. Linda	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	10	\$5,420	\$1,368	\$6,788
Varlinskaia, Dr. Elena I	National Institute for Alcohol Abuse & Alcoholism	2/8 NADIA U01 Adolescent Alcohol Exposure: Neural Contributors to Sex- and Exposure Timing-Specific Anxiety	50	\$67,408	\$38,423	\$105,831
Varlinskaia, Dr. Elena I	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	50	\$78,099	\$43,980	\$122,079
Varlinskaia, Dr. Elena I	National Institute for Alcohol Abuse & Alcoholism	Impact of Prenatal Ethanol on BLA Synaptic Plasticity	50	\$46,106	\$26,012	\$72,118
Varlinskaia, Dr. Elena I	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	33	\$33,598	\$8,805	\$42,403
Varlinskaia, Dr. Elena I	National Institute for Alcohol Abuse & Alcoholism	2/8 NADIA U01 Adolescent Alcohol: exposure timing, sex differences, and neural contributors to persistent anxiety and adolescent phenotypes	20	\$18,073	\$8,054	\$26,126
Varodayan, Dr. Florence Prabha	National Institute for Alcohol Abuse & Alcoholism	Alcohol-induced neuroadaptation of prefrontal cortical projections	100	\$92,818	\$38,174	\$130,991

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Werner, Dr. David F.	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	100	\$45,563	\$15,669	\$61,232
Werner, Dr. David F.	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	50	\$78,099	\$43,980	\$122,079
Werner, Dr. David F.	National Institute for Alcohol Abuse & Alcoholism	2/8 NADIA U01 Adolescent Alcohol Exposure: Neural Contributors to Sex- and Exposure Timing-Specific Anxiety	50	\$67,408	\$38,423	\$105,831
Werner, Dr. David F.	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	100	\$60,242	\$20,634	\$80,876
Werner, Dr. David F.	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	33	\$33,598	\$8,805	\$42,403
Werner, Dr. David F.	National Institute for Alcohol Abuse & Alcoholism	2/8 NADIA U01 Adolescent Alcohol: exposure timing, sex differences, and neural contributors to persistent anxiety and adolescent phenotypes	20	\$18,073	\$8,054	\$26,126
Workman, Dr. Joanna L.	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	100	\$0	\$7,652	\$7,652
Department Total:				\$8,528,980		

020 Public Archaeology Facility

Miroff, Dr. Laurie E	Entero Energy	Orange Solar Project, Architectural Services, Town of Orange, Schuyler County, NY	100	\$1,382	\$207	\$1,589
Miroff, Dr. Laurie E	NYS Education Department	Cultural Resources Program Year 5 of 5	100	\$69,137	\$10,371	\$79,508
Miroff, Dr. Laurie E	LaBella Associates	NY State +/- 250 Mile Utility Corridor, Article VII Application	100	\$3,095	\$464	\$3,560

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Miroff, Dr. Laurie E	C&S Companies	Phase 1 Archaeological Survey (Areas of Site Impacts), Gardiner Solar Project, Town of New Paltz, Ulster County, NY	100	\$4,137	\$621	\$4,758
Miroff, Dr. Laurie E	C&S Companies	NY Munnsville West Road Solar Project, Phase 1 Architectural Survey, Town of Stockbridge, NY	100	\$2,946	\$442	\$3,388
Miroff, Dr. Laurie E	F.S. Lopke Contracting Incorporated	Phase 3 Data Recovery of Clusters A, B, D, & E of Ayers 1 Site, Town of Nichols, Tioga County NY	100	\$30,185	\$4,528	\$34,713
Miroff, Dr. Laurie E	C&S Companies	Arkport Crossett Road Solar Project, Phase 1 Architectural Survey, Town of Dansville NY	100	\$2,593	\$389	\$2,982
Miroff, Dr. Laurie E	C&S Companies	Medina East Solar Project, Phase 1 Architectural Survey, Town of Ridgeway, NY	100	\$3,687	\$553	\$4,241
Miroff, Dr. Laurie E	C&S Companies	Medina West Solar Project, Architectural Services, New York	100	\$1,017	\$153	\$1,169
Miroff, Dr. Laurie E	LaBella Associates	Langdon Substation Contingency Parcel Project, Phase 2 Site Examinations of Locus 1-5 of the Terrace Drive Site, Town of Conklin, Broome County, NY	100	\$19,693	\$2,954	\$22,647
Miroff, Dr. Laurie E	C and S Engineering	Otto Solar Project, Phase 1 Architectural Surevy, Town of Otto, NY	100	\$3,032	\$455	\$3,487
Miroff, Dr. Laurie E	C and S Engineering	CRS (FCC620) Deposit Tower Project, Town of Deposit, Broome County, NY	100	\$1,922	\$288	\$2,211
Miroff, Dr. Laurie E	Herkimer County Industrial Development Agency	Schuyler Business Park Project, Phase 1A Cultural Resource Assessment, Town of Schuyler, Herkimer County, NY	100	\$1,823	\$273	\$2,096
Miroff, Dr. Laurie E	C and S Engineering	Manino-1 Solar Project, Phase 1 Architectural Survey, Utica, NY	100	\$4,722	\$708	\$5,430

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Miroff, Dr. Laurie E	Stantec Consulting Services Inc	County Road 35 (Slab City) Over Trout Brook Municipal Contract D040142	100	\$4,833	\$725	\$5,559
Miroff, Dr. Laurie E	F.S. Lopke Contracting Incorporated	Ayers/Brink Mine Project, Phase 2 Site Examination of the Ayers 2 Site, Town of Tioga, Tioga County, NY	100	\$71,657	\$10,749	\$82,406
Miroff, Dr. Laurie E	C and S Engineering	Switzkill Road Solar Project, Architectural Services, Berne, NY	100	\$1,438	\$216	\$1,654
Miroff, Dr. Laurie E	Stantec Consulting Services Inc	West Creek under Noble Street	100	\$2,589	\$388	\$2,978
Miroff, Dr. Laurie E	LaBella Associates	Morris Substation Project, Phase 1A & 1B Archaeological Survey, Town of Oneonta, Otsego County, NY	100	\$12,438	\$1,866	\$14,304
Miroff, Dr. Laurie E	Calocerinos Engineering PLLC	Arbutus Park Extension Project, Phase 2 Site Examination of the Arbutus Precontact Site, Town of Pompey, Onondaga County, NY	100	\$5,049	\$757	\$5,807
Miroff, Dr. Laurie E	Environmental Design & Research	Bridgeview Correctional Facility Gas Main Extension- Phase 1 Archaeological Survey, City of Ogdensburg, St. Lawrence County, NY	100	\$7,821	\$1,173	\$8,994
Miroff, Dr. Laurie E	Troy Top Soil Company	Troy Topsoil Halfmoon Mine Expansion Project, NYS DEC Assessment, Town of Halfmoon, Saratoga County, NY	100	\$2,561	\$384	\$2,945
Miroff, Dr. Laurie E	LaBella Associates	L947 Project, Monroe County, Predictive Model and Sensitivity Assessment	100	\$2,551	\$383	\$2,933
Miroff, Dr. Laurie E	LaBella Associates	Langdon Substation Project, Phase 1A and Phase 1B Archaeological Services, Town of Conklin, Broome County NY	100	\$24,394	\$3,723	\$28,117
Miroff, Dr. Laurie E	C&S Companies	Alfred State College, Phase 1B Archeological Assessment SUCF Project 221013	100	\$2,021	\$303	\$2,324

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Miroff, Dr. Laurie E	Shumaker Consulting Engineering&Land Surveying PC	Ithaca Farmer's Market Project, Phase 1A Archaeological Assessment and Phase 1B Archaeological Survey, City of Ithaca, Tompkins County, NY	100	\$1,623	\$244	\$1,867
Miroff, Dr. Laurie E	LaBella Associates	Rutland Solar Project, Phase 1 Initial Historic Resource Assessment, Jefferson County, NY	100	\$437	\$65	\$502
Miroff, Dr. Laurie E	Stantec Architecture	Project #2007130123- Site DBU9- Cohoes Located at 1 Mustang Drive, Cohoes, NY 12047	100	\$1,231	\$185	\$1,415
Miroff, Dr. Laurie E	Delta Engineers	7351 Cider Street Project, Phase 1A Archaeological Assessment, Town of Westmoreland, Oneida County, NY	100	\$1,032	\$155	\$1,187
Miroff, Dr. Laurie E	Bethel Woods Center for the Arts	Mapping Proposal Woodstock Bindy Bazaar Project, Bethel, Sullivan County, NY	100	\$318	\$48	\$365
Miroff, Dr. Laurie E	Fagan Engineers	CNGC Line 15, Rathbone-Cameron Mills Gas Line Replacement Project, Phase 1B Archaeological Assessment, Town of Rathbone, Steuben County, NY	100	\$18	\$3	\$21
Miroff, Dr. Laurie E	Fagan Engineers	CNGC Line 15, Rathbone-Cameron Mills Gas Line Replacement Project, Phase 1A Archaeological Assessment, Town of Rathbone, Steuben County, NY	100	\$18	\$3	\$21
Miroff, Dr. Laurie E	LaBella Associates	Rutland Solar Project, Phase 1A Archaeological Assessment with Walkover, Jefferson County, NY	100	\$2,109	\$316	\$2,426
Miroff, Dr. Laurie E	Environmental Design & Research	Phase 1B Survey Fieldwork (Week of June 7-11, 2021) South Ripley Solar Project, Chautauqua County, NY	100	\$338	\$51	\$389
Miroff, Dr. Laurie E	Delta Engineers	Fenton Sidewalk Project, Phase 1 Archaeological Survey	100	\$2,079	\$312	\$2,391

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Miroff, Dr. Laurie E	C and S Engineering	Cultural Resources Screening (FCC 620) 35 Quarry Road Tower Project, Town of Saugerties, Ulster County, NY	100	\$1,671	\$251	\$1,922
Miroff, Dr. Laurie E	C and S Engineering	Cultural Resource Screening (FCC 620) Maine Tower Project, Town of Maine, Broome County, NY	100	\$1,753	\$263	\$2,016
Miroff, Dr. Laurie E	LaBella Associates	Langdon Substation Project, Phase 1A and 1B Archaeological Services, Town of Kirkwood, Broome County, NY	100	\$8,574	\$1,286	\$9,861
Miroff, Dr. Laurie E	LaBella Associates	Binghamton Connect Project- Broome County - Article VII Application, Cultural Resources Section	100	\$1,106	\$166	\$1,272
Miroff, Dr. Laurie E	Cole Trucking and Gravel	Cole Gravel Mine Project, Phase 2 Site Examination, Cole Gravel Precontact Site - Locus 1, Town of Rathbone, Steuben County, NY	100	\$2,749	\$412	\$3,162
Miroff, Dr. Laurie E	Delta Engineers	265 Industrial Park Drive Project Phase I Archaeological Survey, Town of Kirkwood, Broome County, NY	100	\$7,115	\$1,044	\$8,159
Miroff, Dr. Laurie E	LaBella Associates	Star L962 and Lounsberry Alternatives Project, Tioga and Chemung Counties, Predictive Model Sensitivity Assessment	100	\$2,557	\$384	\$2,941
Miroff, Dr. Laurie E	F.S. Lopke Contracting Incorporated	Ayers Brink Project - Phase 3 Data Recovery, Ayers 1 Site, Clusters G to L	100	\$41,377	\$6,207	\$47,584
Miroff, Dr. Laurie E	McFarland and Johnson Engineers Incorporated	Orange County Airport Project, Phase 1A cultural resource assessment, Town of Montgomery, Orange County NY	100	\$3,124	\$468	\$3,592
Miroff, Dr. Laurie E	Delta Engineers	Fenton Sidewalk Project Phase 1 Architectural Survey	100	\$6,469	\$970	\$7,440
Miroff, Dr. Laurie E	C and S Engineering	Alfred State College, Phase 1A Archaeological Assessment	100	\$2,319	\$348	\$2,667

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Miroff, Dr. Laurie E	NYS Education Department	2020-2021 Administrative Task - Cultural Resources Survey	100	\$108,555	\$16,283	\$124,839
Miroff, Dr. Laurie E	NYS Education Department	NYS Cultural Resources Survey Program 2020-2021	100	\$143,068	\$21,460	\$164,528
Miroff, Dr. Laurie E	Hudson Crossing Park Inc.	Battlefield Resource Survey of the Saratoga (Siege) Battlefield, ABPP Grant P18AP00520, Towns of Easton, Saratoga, and Northumberland, NY	100	\$9,604	\$1,441	\$11,044
Miroff, Dr. Laurie E	National Park Service	Historical and Archaeological Survey of the Battlefield of Fort Bull, NY	100	\$38,082	\$519	\$38,601
Miroff, Dr. Laurie E	GZA GeoEnvironmental Incorporated	Pipeline 49 Black River Project, Phase 1A and 1B Archaeological Services, Town of Pamela, Jefferson County, NY	100	\$8,780	\$1,317	\$10,097
Miroff, Dr. Laurie E	JCJ Holdings II	Plains- PA Bureau of Abandoned Mine Reclamation Building Project, Phase 1 Archaeological Survey (STPs & GPR), Town of Plains, Luzerne County, PA	100	\$4,274	\$641	\$4,915
Miroff, Dr. Laurie E	Sage Engineering Associates	TOA-412 KSO Cultural Resource Historic Preservation Mitigation Project	100	\$24,949	\$3,742	\$28,691
Miroff, Dr. Laurie E	Lamont Engineers	Phase 3 Data Recovery of the Lords/ Wells Site for the Sidney Water System Improvement Project, Village of Sidney, Delaware County, NY	100	\$74,959	\$11,244	\$86,203
Miroff, Dr. Laurie E	National Science Foundation	Engaging Rural Youth in Multidisciplinary Inquiry through Archaeology	25	\$7,175	\$1,866	\$9,041
Miroff, Dr. Laurie E	Calocerinos Engineering PLLC	Arbutus Park Extension Project, Phase 1 Archaeological, Town of Pompey, Onondaga County, NY	100	\$7,717	\$1,157	\$8,874
Miroff, Dr. Laurie E	Beardsley Design Associates	Knolls East Gate Entrance Project (TOA#190, Item 5) Phase 1B Archaeological Survey, Town of Niskayuna, Schenectady County, NY	100	\$4,176	\$626	\$4,803

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Miroff, Dr. Laurie E	C and S Engineering	Phase 2 & 3 Archaeological Investigations, Glass Greenhouse Facility Project, Village of Wampsville, City of Oneida, Madison County, NY	100	\$15,605	\$2,341	\$17,945
Miroff, Dr. Laurie E	Upstate Hi Tech Properties	Beech Street Project, Phase 1A Archaeological Survey, Town of Union, Broome County NY	100	\$2,153	\$323	\$2,476
Miroff, Dr. Laurie E	Sage Engineering Associates	TOA-420 - KNO New Lower Level Hillside Road - Archaeological Services File 3675.00	100	\$3,272	\$491	\$3,763
Miroff, Dr. Laurie E	GZA GeoEnvironmental Incorporated	National Grid Union Falls Hydro Generation Station Project, Phase 1A/1B Archaeological Survey, Town of Black Rock, Clinton County, NY	100	\$3,880	\$582	\$4,462
Miroff, Dr. Laurie E	NYS Office of Parks Rec & Historic Preservation	Cultural Survey of Horse Island, Sackets Harbor NY	100	\$43,407	\$6,511	\$49,918
Miroff, Dr. Laurie E	Hanover Engineering Associates	Phase 1 Archaeological Survey, Peffer-Strong Spur 485 Project, Sullivan Township, Tioga County, PA Project NFG1003-02-(SUB)	100	\$2,107	\$316	\$2,423
Miroff, Dr. Laurie E	Bolands Riverside Sod Farm	Phase 3 Data Recovery of the Campville Boland Site (northern portion of the south parcel) Town of Owego, Tioga County, NY	100	\$23,247	\$3,487	\$26,734
Miroff, Dr. Laurie E	LaBella Associates	Colliers Substation Expansion Project, Phase 1A/ 1B Archaeological Survey, Town of Milford, Otsego County, NY	100	\$3,145	\$472	\$3,617
Miroff, Dr. Laurie E	Bethel Woods Center for the Arts	Artifact Mapping Proposal Woodstock Bindy Bazaar Project, Bethel, Sullivan County NY	100	\$1,370	\$206	\$1,576
Miroff, Dr. Laurie E	Town of Marcellus	Marcellus Town Hall Project, Phase 1 Archaeology Survey, Town of Marcellus, Onondaga County, NY	100	\$2,966	\$445	\$3,411
Miroff, Dr. Laurie E	LaBella Associates	Stolle Road Substation Expansion Project, Phase 1A/1B Archaeological Survey, Town of Elma, Erie County, NY	100	\$2,778	\$417	\$3,195

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
O'Donovan, Dr. Maria	Multiple Sponsors	Journal for the Council of Northeast Historical Archaeology	100	\$2,081	\$312	\$2,393
Versaggi, Dr. Nina M	National Park Service	Archaeological Overview & Assessment if the St. Gabriel's and Waggon seller Farm Parcels, Valley Forge National Historical Park, King of Prussia, PA	100	\$42,807	\$7,277	\$50,084
Versaggi, Dr. Nina M	National Park Service	Oneida Castle Battlefield Archaeological Survey	100	\$37,471	\$5,621	\$43,091
Versaggi, Dr. Nina M	National Science Foundation	Engaging Rural Youth in Multidisciplinary Inquiry through Archaeology	25	\$7,175	\$1,866	\$9,041

Department Total: \$1,146,760

020 Research VP

Curtin, Ms. Mary Beth	Multiple Sponsors	Income for Fernand Braudel Center Activities	100	\$1,781	\$267	\$2,048
Czarnecki, Dr. Steven V.	National Science Foundation	PFI-TT: Next Generation High Energy Storage, Light Weight Capacitors	15	\$6,557	\$2,813	\$9,371
Park, Dr. Seungbae	Multiple Sponsors	Symposium and Other IEEC Activities	100	\$34,133	\$8,533	\$42,666
Rangarajan, Dr. Srikanth	Applied Materials	Design, Develop and Demonstrate a True 3D Packaging	25	\$3,786	\$1,303	\$5,089
Rangarajan, Dr. Srikanth	SUNY Applied Materials Research Institute	Design, Develop and Demonstrate a True 3D Packaging	25	\$512	\$264	\$777
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Advances in Integration and Packaging of Electronic Systems	100	\$43,420	\$6,513	\$49,933

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Turner, Mr. James N	National Science Foundation	PFI-TT: Next Generation High Energy Storage, Light Weight Capacitors	15	\$6,557	\$2,813	\$9,371
Turner, Mr. James N	Flex Tech Alliance	Improved ECG Monitor with Capacitive Electrodes	20	\$7,251	\$4,023	\$11,275
Turner, Mr. James N	Empire State Development Corp	Match to Improved ECG Monitor with Capacitive Electrodes	20	\$6,753	\$3,849	\$10,602
Department Total:				\$141,130		

020 School Of Management

Agnihotri, Dr. Saligrama	Adobe Systems Incorporated	Unrestricted Research Support	100	\$3,462	\$519	\$3,981
Dhillon, Dr. Upinder	Multiple Sponsors	Award for School of Management Personnel Costs	100	\$32,644	\$4,897	\$37,541
Dionne, Ms. Shelley	National Science Foundation	Diversity, Network Structure, and the Effectiveness of Collective Design and Innovation	33.33	\$9,800	\$5,304	\$15,103
Dionne, Ms. Shelley	US Army Research Institute	Collective Planning and Leadership for the US Army	33.3	\$11,001	\$5,905	\$16,905
Dionne, Ms. Shelley	Waseda University	Model Development and Data Analysis for Business Idea Generation Process on Entrepreneurship Education	50	\$830	\$473	\$1,302
Tsai, Dr. Chou-Yu	Waseda University	Model Development and Data Analysis for Business Idea Generation Process on Entrepreneurship Education	50	\$830	\$473	\$1,302
Yammarino, Dr. Francis J	National Science Foundation	Diversity, Network Structure, and the Effectiveness of Collective Design and Innovation	33.33	\$9,800	\$5,304	\$15,103

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Yammarino, Dr. Francis J	US Army Research Institute	Collective Planning and Leadership for the US Army	33.4	\$11,034	\$5,922	\$16,956
Department Total:				\$108,194		
020 School of Nursing Academic						
Atav, Dr. Arif Serdar	Truth Pharm	Evaluation of the Opioid Cohort Project	100	\$32,712	\$3,271	\$35,984
Bryant, Dr. Sharon A	US Department of Education	Binghamton University Upward Bound Math and Science 2017-2022	100	\$2,120	\$0	\$2,120
Bryant, Dr. Sharon A	NYS Education Department	Science Technology Entry Program 2020-2021	50	\$56,502	\$4,140	\$60,642
Bryant, Dr. Sharon A	NYS Education Department	2019-2020 Science and Technology Entry Program (STEP)	50	\$1,827	\$146	\$1,973
Bryant, Dr. Sharon A	US Department of Education	Binghamton University Upward Bound Math and Science 2017-2022	100	\$211,244	\$16,900	\$228,143
Bryant, Dr. Sharon A	NYS Education Department	Collegiate Science and Technology Entry Program (CSTEP) 2019-2020	100	\$31,676	\$509	\$32,184
Fronczek, Ms. Ann	Health Resources and Services Admin	Advancing Nursing Education Workforce	50	\$2,397	\$192	\$2,589
Fronczek, Ms. Ann	Health Resources and Services Admin	Advancing Nursing Education Workforce	50	\$124,803	\$9,984	\$134,788
Fronczek, Ms. Ann	Health Resources and Services Admin	Advancing Nursing Education Workforce	50	\$132,741	\$0	\$132,741

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Johnston, Ms. Yvonne	Truth Pharm	Opioid Use Disorder Innovation Program: Clearing the Confusion, A Family Education Program Evaluation	100	\$40,909	\$4,091	\$45,000
Johnston, Ms. Yvonne	Truth Pharm	Opioid Use Disorder Innovation Program: Community Health Worker for PWUD Model Development and Training Evaluation	100	\$13,636	\$1,364	\$15,000
Myers, Dr. Ann	Multiple Sponsors	Susan Pardee Baker Trust - Unrestricted Research Support	50	\$12,730	\$1,910	\$14,640
Rouhana, Dr. Nicole A.	Health Resources and Services Admin	Advancing Nursing Education Workforce	50	\$132,741	\$0	\$132,741
Rouhana, Dr. Nicole A.	Mary Imogene Bassett Hospital	Advanced Nursing Education Workforce Grant Program Binghamton University - HRSA # T14HP33198	100	\$6,614	\$661	\$7,275
Rouhana, Dr. Nicole A.	Health Resources and Services Admin	Advancing Nursing Education Workforce	50	\$2,397	\$192	\$2,589
Rouhana, Dr. Nicole A.	Mary Imogene Bassett Hospital	Advanced Nursing Education- Nurse Practitioner Residence Program (ANE-NPR Program)	100	\$47,672	\$4,767	\$52,439
Rouhana, Dr. Nicole A.	Health Resources and Services Admin	Advancing Nursing Education Workforce	50	\$124,803	\$9,984	\$134,788
Sutherland, Ms. Melissa A	Agency for Healthcare Research and Quality	Multi-Level Influences of Violence Screening in College Health Centers	60	\$82,275	\$35,964	\$118,239

Department Total: \$1,153,874

020 Small Business Dev Center

Layman, Ms. Rochelle	Small Business Administration	SBDC 2019/2020	100	\$80,814	\$9,698	\$90,511
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<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Layman, Ms. Rochelle	Small Business Administration	SBDC 2020/2021	100	\$217,486	\$26,098	\$243,585
Layman, Ms. Rochelle	Multiple Sponsors	Miscellaneous Income- Small Business Development Center Activities	100	\$664	\$100	\$763
Layman, Ms. Rochelle	Multiple Sponsors	Program Income Account for SBDC Training Activities Associated with federal SBA funding	100	\$0	\$180	\$180
Layman, Ms. Rochelle	Small Business Administration	Small Business Development Centers Cares Act	100	\$231,602	\$27,792	\$259,394
Layman, Ms. Rochelle	Empire State Development Corp	ESD Covid-19 Disaster Relief Technical Assistance Grants	100	\$73,693	\$7,369	\$81,062

Department Total: \$675,495

020 Student Affairs V P

Givre, Dr. Sophia J.	US Department of Education	Binghamton University Upward Bound Rural Program 2017-2022	100	\$14,183	\$0	\$14,183
Givre, Dr. Sophia J.	US Department of Education	2018-2022 Binghamton University Upward Bound Program	100	\$338,124	\$27,050	\$365,174
Givre, Dr. Sophia J.	US Department of Education	Binghamton University Upward Bound Rural Program 2017-2022	100	\$273,637	\$21,891	\$295,528
Givre, Dr. Sophia J.	US Department of Education	2018-2022 Binghamton University Upward Bound Program	100	\$25,833	\$0	\$25,833
Rebello, Mr. Stephen Michael	US Department of Education	SSS-STEM Program at Binghamton University 2015-2020	100	\$35,729	\$2,858	\$38,588

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Rebello, Mr. Stephen Michael	US Department of Education	2016-2021 Student Support Services Program	100	\$337,004	\$26,960	\$363,964
Rebello, Mr. Stephen Michael	US Department of Education	2016-2021 Student Support Services Program	100	\$8,200	\$0	\$8,200
Rebello, Mr. Stephen Michael	US Department of Education	Student Support Services STEM Program at Binghamton University 2020-2025	100	\$185,700	\$14,856	\$200,556
Rebello, Mr. Stephen Michael	US Department of Education	Student Support Services STEM Program at Binghamton University 2020-2025	100	\$1,950	\$0	\$1,950

Department Total: \$1,313,976

020 Systems Science and Indust Eng (SSIE)

Borgesen, Mr. Peter	Purdue University	CHIRP: Alternative Fine Pitch Interconnect Technologies for SiPs (Proposal Number W32617)	100	\$26,888	\$15,326	\$42,214
Borgesen, Mr. Peter	Hitachi Chemical Company Ltd.	Nanocopper Process and Reliability	100	\$7,875	\$4,489	\$12,364
Borgesen, Mr. Peter	Purdue University	Borgesen 2020 SRC CHIRP: Reliable Low Temperature Solder Approach	100	\$31,003	\$17,672	\$48,675
Cheng, Dr. Changqing	Trustees of Columbia University in the City of New York	BD Hubs: NORTHEAST: The Northeast Big Data Innovation Hub Subaward No: 10(GG01486-02)	100	\$16,273	\$8,727	\$25,000
Deng, Dr. Jia	ANSYS Incorporated	Materials Testing, Determinie Density of Additively Manufactured Cuboids and Selected Samples	100	\$10,636	\$2,659	\$13,295
Deng, Dr. Jia	National Science Foundation	Multiple-Energy- Assisted Ultrasharp Probe-Based Nanomanufacturing for High-Resolution and High-Efficiency Nanopatterning	50	\$30,511	\$16,842	\$47,353

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Deng, Dr. Jia	Hatala Orthodontics	3-D Printing Orthodontic Models	100	\$1,384	\$346	\$1,730
Greene, Dr. Christopher M	Smart Modular Technologies Inc	Process Assembly and Improvement for the Assembly of Complex Surface Mount Devices	50	\$17,917	\$4,086	\$22,003
Greene, Dr. Christopher M	SMART High Reliability Solutions	Continual Process Improvement Research for Complex Surface Mount Device Assemblies	50	\$29,567	\$6,927	\$36,494
Greene, Dr. Christopher M	Smart Modular Technologies Inc	Quality and Reliability Process Analysis for Complex Electronics Assembly	50	\$9,193	\$2,390	\$11,583
Greene, Dr. Christopher M	Smart Modular Technologies Inc	Advanced Process Research and Continual Process Improvement for Complex Surface Mount Device Assemblies	50	\$17,817	\$4,059	\$21,876
Khasawneh, Dr. Mohammad	Westchester Medical Center	Process Analysis and System Development to Enhance Operational Excellence	50	\$17,802	\$3,158	\$20,960
Khasawneh, Dr. Mohammad	Montefiore Hospital and Medical Center	Business Process Engineering Support for Network Management Systems (CMO) Amendments 21	100	\$45,091	\$10,253	\$55,345
Khasawneh, Dr. Mohammad	Montefiore Hospital and Medical Center	Business Process Engineering Support for Network Management Systems CMO (AMD 22)	33	\$6,803	\$1,254	\$8,057
Khasawneh, Dr. Mohammad	EwingCole	Healthcare Practice Research and Development through Operational Planning and Simulation Modeling	50	\$5,538	\$1,315	\$6,852
Khasawneh, Dr. Mohammad	TidalHealth	Continuous Performance Improvement and System Modeling Support for TidalHealth, Inc	50	\$8,086	\$1,977	\$10,063
Khasawneh, Dr. Mohammad	Navicent Health	Healthcare Analytics and Soutlions R&D at Navicent Heath	34	\$53,182	\$13,487	\$66,669

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Khasawneh, Dr. Mohammad	Montefiore Hospital and Medical Center	Process Analysis and Performance Excellence for Integrated Delivery Care Systems	50	\$20,128	\$4,322	\$24,450
Khasawneh, Dr. Mohammad	Waseda University	Model Development and Data Analysis for "Spontaneous Ideological Escalation Without Leaders As a Distributed Socio-Dynamical Process"	100	\$5,163	\$2,943	\$8,106
Khasawneh, Dr. Mohammad	LiveOnNY	Performance Improvement of Clinical Practices and Operations Research 2020-2021	25	\$4,454	\$1,044	\$5,499
Khasawneh, Dr. Mohammad	United Health Services Hospitals Incorporated	Business Intelligence & Performance Improvement R&D	50	\$53,143	\$10,666	\$63,809
Khasawneh, Dr. Mohammad	Christiana Care Health Services Incorporated	Organizational Excellence Support at Christiana Care Health	34	\$12,110	\$2,978	\$15,088
Khasawneh, Dr. Mohammad	Cooper University Health Care	Redesign of Care Processes and Workflows to Facilitate the Implementation of a Customer Relationship Management System	34	\$8,671	\$1,724	\$10,394
Khasawneh, Dr. Mohammad	Memorial Sloan Kettering Cancer Center	Amendment 3- Improving Quality, Safety, and Patient Flow and Outpatient Medication Management	50	\$6,693	\$1,740	\$8,433
Khasawneh, Dr. Mohammad	United Health Services Hospitals Incorporated	Business Intelligence & Performance Improvement at UHSH	50	\$30,915	\$8,038	\$38,953
Khasawneh, Dr. Mohammad	MaineHealth	Health Care Performance, Quality, and Safety Improvement at MaineHealth	33.4	\$2,142	\$557	\$2,699
Khasawneh, Dr. Mohammad	LiveOnNY	Performance Improvement of Clinical Practices and Operations Research 2019-2020	25	\$1,250	\$325	\$1,575
Khasawneh, Dr. Mohammad	Finger Lakes Community Health (FLCH)	Population Health and Operations Management for Sustainable and Comprehensive Quality Care	33.4	\$2,619	\$681	\$3,300

<u><i>Investigator</i></u>	<u><i>Sponsor Name</i></u>	<u><i>Award Title</i></u>	<u><i>% Credited to Investigator</i></u>	<u><i>Direct Costs Expended</i></u>	<u><i>F & A Expended</i></u>	<u><i>Total Expended</i></u>
Khasawneh, Dr. Mohammad	LiveOnNY	Qualitative Analysis of Psychosocial Factors linked to Authorization for the Donation of Vascularized Composit Allografts	100	\$22,608	\$5,878	\$28,486
Khasawneh, Dr. Mohammad	Memorial Sloan Kettering Cancer Center	Improving Quality, Safety and Patient Flow and Outpatient Medication Management	50	\$34,224	\$6,510	\$40,733
Kwon, Dr. Soongeol	Innovation Associates	Large-Volume Central Fill Pharmacy System Automation Using Simulation, Optimization, Data Analytics and Industry 4.0 Principles	33	\$86,410	\$14,948	\$101,359
Kwon, Dr. Soongeol	EOS Energy Enterprises	Application Engineering Support for Technical Solutions in Battery Energy	33	\$3,743	\$973	\$4,717
Kwon, Dr. Soongeol	Innovation Associates	Development of a Simulation-Based Pharmacy Automation System Test Environment Integrated with Virtual Machine Emulators	33	\$10,176	\$2,646	\$12,821
Lam, Dr. Sarah	Navicent Health	Healthcare Analytics and Soutlions R&D at Navicent Heath	33	\$51,618	\$13,090	\$64,708
Lam, Dr. Sarah	Christiana Care Health Services Incorporated	Organizational Excellence Support at Christiana Care Health	33	\$11,754	\$2,891	\$14,644
Lam, Dr. Sarah	Cooper University Health Care	Redesign of Care Processes and Workflows to Facilitate the Implementation of a Customer Relationship Management System	33	\$8,416	\$1,673	\$10,089
Li, Dr. Huiyang	SIPPA Solutions Limited Liability Corporation	Self-Health Management Informatics Platform: Improving Patient Engagement in Care Deliveery	100	\$11,400	\$6,498	\$17,898
Lu, Dr. Susan Shuxia	National Science Foundation	I-Corps: Low-Cost and Highly Efficient Hydrogen Production from Water Splitting	50	\$6,441	\$716	\$7,156
Nagarur, Dr. Nagendra	Sanmina Corporation	Implementation of Automation in a Surface Mount Technology Company	50	\$3,847	\$1,000	\$4,847

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Nagarur, Dr. Nagendra	Sanmina Corporation	Research in Assembly and Automation in a Surface Mount Technology Company	50	\$8,835	\$1,922	\$10,757
Poliks, Dr. Mark D	Flex Tech Alliance	5.5 Passive UHF-RFID Tag with Encrypted Security Features for Authentication and Tamper	100	\$164,621	\$32,103	\$196,723
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match to Project 5.2A: DataCube: Printed Stretchable Conductors	100	\$119,449	\$33,741	\$153,190
Poliks, Dr. Mark D	NextFlex	5.2A Datacube: Printed Stretchable Conductors	100	\$122,071	\$36,254	\$158,325
Poliks, Dr. Mark D	Universal Instruments Corporation	FlexMed: Evaluation of flip-chip methods suitable for low-cost, limited-temperature flexible substrate materials	100	\$18,798	\$4,417	\$23,215
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match: Project 5.7 Additively Manufactured High Temperature Electronics for Hypersonics	100	\$192,921	\$6,400	\$199,321
Poliks, Dr. Mark D	NextFlex	Project 5.7: Additively Manufactured High Temperature Electronics for Hypersonics (10048)	100	\$209,635	\$14,250	\$223,885
Poliks, Dr. Mark D	NextFlex	ADP- Topic 5.8: Temperature and Humidity Sensing Tag Phase 2 Funding	100	\$302,740	\$6,544	\$309,284
Poliks, Dr. Mark D	NextFlex	Project 5.7: Additively Manufactured High Temperature Electronics for Hypersonics (10048)	100	\$8,866	\$5,054	\$13,919
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match to Project 5.4- Factory-to-Field Embedded Sensing for Structural Components	100	\$44,786	\$22,103	\$66,889
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match to Project 5.4- Factory-to-Field Embedded Sensing for Structural Components	100	\$333,780	\$1,692	\$335,472

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match: Project 5.7 Additively Manufactured High Temperature Electronics for Hypersonics	100	\$98,352	\$40,185	\$138,538
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match to PC5.5	100	\$244,566	\$19,297	\$263,863
Poliks, Dr. Mark D	NextFlex	Temperature and Humidity Sensing - Phase 1 - (10049)	100	\$302,860	\$31,306	\$334,166
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match to 4.8 Wearable Interstitial Fluid Biomarker Monitoring Device	100	\$100,486	\$35,640	\$136,126
Poliks, Dr. Mark D	Empire State Development Corp	Project 5.8 - Temperature and Humidity Sensing	100	\$368,468	\$30,203	\$398,671
Poliks, Dr. Mark D	Empire State Development Corp	Project 5.8 - Temperature and Humidity Sensing	100	\$319,172	\$18,908	\$338,079
Poliks, Dr. Mark D	Empire State Development Corp	Wireless Vital Sign Monitoring Devices for Ambulatory Care	100	\$893,015	\$29,624	\$922,639
Poliks, Dr. Mark D	Flex Tech Alliance	Wireless Vital Sign Monitoring Devices for Ambulatory Care	100	\$833,509	\$26,965	\$860,474
Poliks, Dr. Mark D	Empire State Development Corp	Match to NextFlex 4.1: Device Intergration and Packaging	100	\$61,018	\$23,687	\$84,705
Poliks, Dr. Mark D	2M Technology Limited Liability Company	FlexMed: 2M Technology LLC Testing Agreement	100	\$22	\$6	\$28
Poliks, Dr. Mark D	NextFlex	Prediction of Infectious Disease Evolution in Ambulatory Patients Through Continuous Health Assessment	100	\$494	\$281	\$775

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Poliks, Dr. Mark D	Empire State Development Corp	AA878 Match to 90742-3.7B	100	\$494	\$281	\$775
Poliks, Dr. Mark D	NextFlex	Project 5.4: Factory-to-Field Embedded Sensing for Structural Components (10044)	100	\$38,420	\$21,183	\$59,603
Poliks, Dr. Mark D	TTM Technologies	FlexMed Research Support/Collaboration TTM BGM	100	\$282	\$42	\$325
Poliks, Dr. Mark D	NextFlex	3.7(a) Disposable and Adjustable Vital Sign Monitoring Device (10030)	100	(\$95,180)	(\$43,885)	(\$139,066)
Poliks, Dr. Mark D	NextFlex	PC 4.9 Small Unmanned Aircraft Systems (SUAS) using Flexible Hybrid Electronics for Expanded Multi-Mission Operation	100	\$22,621	\$10,496	\$33,118
Poliks, Dr. Mark D	Empire State Development Corp	ESD Funded- AFRL Flexible Hybrid Electronics Phase 0 Foundational Engineering Problem	100	\$1,498	\$854	\$2,352
Poliks, Dr. Mark D	NextFlex	Project 5.4: Factory-to-Field Embedded Sensing for Structural Components (10044)	100	\$170,993	\$14,250	\$185,243
Poliks, Dr. Mark D	Lockheed Martin Corporation	NextFlex Project 3.1 Additively Printed Circuit Elements for Antenna & Microwave	100	(\$1)	\$0	(\$1)
Poliks, Dr. Mark D	Empire State Development Corp	Operational Account	100	\$47,237	\$20,572	\$67,809
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match to Asset Monitoring Award with GE	100	\$5,706	\$3,253	\$8,959
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match to Asset Monitoring Award with GE	100	\$9,315	\$0	\$9,315

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Poliks, Dr. Mark D	Flex Tech Alliance	Asset Monitoring- Open Project Call (project number 11001)	100	\$13,980	\$7,969	\$21,949
Poliks, Dr. Mark D	Flex Tech Alliance	Asset Monitoring- Open Project Call (project number 11001)	100	\$9,315	\$0	\$9,315
Poliks, Dr. Mark D	Flex Tech Alliance	Improved ECG Monitor with Capacitive Electrodes	20	\$7,251	\$4,023	\$11,275
Poliks, Dr. Mark D	Empire State Development Corp	Match to Improved ECG Monitor with Capacitive Electrodes	20	\$6,753	\$3,849	\$10,602
Poliks, Dr. Mark D	National Science Foundation	MRI: Acquisition of a Hard X-Ray PhotoElectron Spectroscope (HAXPES) for the Institute for Materials Research (IMR) at Binghamton University (BU)	10	\$28,160	\$0	\$28,160
Poliks, Dr. Mark D	Flex Tech Alliance	NextFlex- AFRL Flexible Hybrid Electronics Phase 0 Foundational Engineering Problem	100	\$1,450	\$827	\$2,277
Poliks, Dr. Mark D	Analog Devices, Incorporated	Critical Materials, Surfaces, and Interfaces for Advanced Packaging	100	\$7,852	\$2,041	\$9,893
Poliks, Dr. Mark D	Corning Incorporated	FlexMed: Metalization and R2R Processing of the Thin Flexible Inorganic Substrates	100	\$15,227	\$8,679	\$23,907
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match to PC 4.9 Small Unmanned Aircraft Systems (SUAS) using Flexible Hybrid Electronics for Expanded Multi-Mission Operation	100	\$176,524	\$0	\$176,524
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match to PC 4.9 Small Unmanned Aircraft Systems (SUAS) using Flexible Hybrid Electronics for Expanded Multi-Mission Operation	100	\$101,698	\$36,057	\$137,755

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Poliks, Dr. Mark D	NextFlex	PC 4.9 Small Unmanned Aircraft Systems (SUAS) using Flexible Hybrid Electronics for Expanded Multi-Mission Operation	100	\$303,044	\$14,250	\$317,294
Poliks, Dr. Mark D	NYS Department of Economic Development	Center For Flexible Hybrid Medical Device Manufacturing	100	\$236,638	\$924	\$237,561
Poliks, Dr. Mark D	NYS Department of Economic Development	Center For Flexible Hybrid Medical Device Manufacturing	100	\$248,757	\$36,935	\$285,691
Poliks, Dr. Mark D	NextFlex	4.8 Wearable Interstitial Fluid Biomarker Monitoring Device (10037)	100	\$432,603	\$26,948	\$459,551
Poliks, Dr. Mark D	NextFlex	4.8 Wearable Interstitial Fluid Biomarker Monitoring Device (10037)	100	\$48,989	\$24,463	\$73,452
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match to 4.8 Wearable Interstitial Fluid Biomarker Monitoring Device	100	\$653,232	\$0	\$653,232
Santos, Dr. Daryl L	Smart Modular Technologies Inc	Quality Engineering Research and Development for Complex Surface Mount Assemblies	50	\$10,275	\$2,671	\$12,946
Sayama, Dr. Hiroki	US Army Research Institute	Collective Planning and Leadership for the US Army	33.3	\$11,001	\$5,905	\$16,905
Sayama, Dr. Hiroki	National Science Foundation	Diversity, Network Structure, and the Effectiveness of Collective Design and Innovation	33.34	\$9,803	\$5,305	\$15,108
Si, Dr. Bing	Agency for Healthcare Research and Quality	Multi-Level Influences of Violence Screening in College Health Centers	40	\$54,850	\$23,976	\$78,826
Srihari, Dr. Krishnaswami	Montefiore Hospital and Medical Center	Process Analysis and Performance Excellence for Integrated Delivery Care Systems	50	\$20,128	\$4,322	\$24,450

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Srihari, Dr. Krishnaswami	Westchester Medical Center	Process Analysis and System Development to Enhance Operational Excellence	50	\$17,802	\$3,158	\$20,960
Srihari, Dr. Krishnaswami	United Health Services Hospitals Incorporated	Business Intelligence & Performance Improvement R&D	50	\$53,143	\$10,666	\$63,809
Srihari, Dr. Krishnaswami	Smart Modular Technologies Inc	Quality and Reliability Process Analysis for Complex Electronics Assembly	50	\$9,193	\$2,390	\$11,583
Srihari, Dr. Krishnaswami	Memorial Sloan Kettering Cancer Center	Improving Quality, Safety and Patient Flow and Outpatient Medication Management	50	\$34,224	\$6,510	\$40,733
Srihari, Dr. Krishnaswami	LiveOnNY	Performance Improvement of Clinical Practices and Operations Research 2020-2021	25	\$4,454	\$1,044	\$5,499
Srihari, Dr. Krishnaswami	Raymond Corporation	Standard Work Documentation and Performance improvement in Raymond Logistics	34	\$9,821	\$1,938	\$11,759
Srihari, Dr. Krishnaswami	Navicent Health	Healthcare Analytics and Soutlions R&D at Navicent Heath	33	\$51,618	\$13,090	\$64,708
Srihari, Dr. Krishnaswami	Sapphire Automation	Digital Transformation of Smart Manufacturing Using an AI/ML - based Approach	34	\$6,397	\$1,578	\$7,975
Srihari, Dr. Krishnaswami	TidalHealth	Continuous Performance Improvement and System Modeling Support for TidalHealth, Inc	50	\$8,086	\$1,977	\$10,063
Srihari, Dr. Krishnaswami	Sanmina Corporation	Research in Assembly and Automation in a Surface Mount Technology Company	50	\$8,835	\$1,922	\$10,757
Srihari, Dr. Krishnaswami	EOS Energy Enterprises	Application Engineering Support for Technical Solutions in Battery Energy	34	\$3,857	\$1,003	\$4,860

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Srihari, Dr. Krishnaswami	Innovation Associates	Development of a Simulation-Based Pharmacy Automation System Test Environment Integrated with Virtual Machine Emulators	34	\$10,484	\$2,726	\$13,210
Srihari, Dr. Krishnaswami	Montefiore Hospital and Medical Center	Business Process Engineering Support for Network Management Systems CMO (AMD 22)	34	\$7,009	\$1,292	\$8,301
Srihari, Dr. Krishnaswami	Smart Modular Technologies Inc	Process Assembly and Improvement for the Assembly of Complex Surface Mount Devices	50	\$17,917	\$4,086	\$22,003
Srihari, Dr. Krishnaswami	EwingCole	Healthcare Practice Research and Development through Operational Planning and Simulation Modeling	50	\$5,538	\$1,315	\$6,852
Srihari, Dr. Krishnaswami	Raymond Corporation	Supporting New Logistics Network and Transportation System Implementation	34	\$4,486	\$1,166	\$5,652
Srihari, Dr. Krishnaswami	Sanmina Corporation	Research in Quality Engineering in Electronics Packaging and Manufacturing	100	\$29,770	\$6,989	\$36,760
Srihari, Dr. Krishnaswami	Finger Lakes Community Health (FLCH)	Population Health and Operations Management for Sustainable and Comprehensive Quality Care	33.3	\$2,611	\$679	\$3,290
Srihari, Dr. Krishnaswami	SMART High Reliability Solutions	Continual Process Improvement Research for Complex Surface Mount Device Assemblies	50	\$29,567	\$6,927	\$36,494
Srihari, Dr. Krishnaswami	MaineHealth	Health Care Performance, Quality, and Safety Improvement at MaineHealth	33.3	\$2,136	\$555	\$2,691
Srihari, Dr. Krishnaswami	United Health Services Hospitals Incorporated	Business Intelligence & Performance Improvement at UHSH	50	\$30,915	\$8,038	\$38,953
Srihari, Dr. Krishnaswami	Memorial Sloan Kettering Cancer Center	Amendment 3- Improving Quality, Safety, and Patient Flow and Outpatient Medication Management	50	\$6,693	\$1,740	\$8,433

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Srihari, Dr. Krishnaswami	Bennett Distribution Services Limited Liability Corporation	Warehouse Operations Management and Analytics Research And Development	50	\$7,297	\$1,897	\$9,194
Srihari, Dr. Krishnaswami	Christiana Care Health Services Incorporated	Organizational Excellence Support at Christiana Care Health	33	\$11,754	\$2,891	\$14,644
Srihari, Dr. Krishnaswami	Cooper University Health Care	Redesign of Care Processes and Workflows to Facilitate the Implementation of a Customer Relationship Management System	33	\$8,416	\$1,673	\$10,089
Srihari, Dr. Krishnaswami	Sanmina Corporation	Implementation of Automation in a Surface Mount Technology Company	50	\$3,847	\$1,000	\$4,847
Srihari, Dr. Krishnaswami	Smart Modular Technologies Inc	Quality Engineering Research and Development for Complex Surface Mount Assemblies	50	\$10,275	\$2,671	\$12,946
Srihari, Dr. Krishnaswami	Innovation Associates	Large-Volume Central Fill Pharmacy System Automation Using Simulation, Optimization, Data Analytics and Industry 4.0 Principles	34	\$89,029	\$15,401	\$104,430
Srihari, Dr. Krishnaswami	Smart Modular Technologies Inc	Advanced Process Research and Continual Process Improvement for Complex Surface Mount Device Assemblies	50	\$17,817	\$4,059	\$21,876
Srihari, Dr. Krishnaswami	Innovation Associates	Implementing Business Intelligence and Analytics to Large-Scale Pharmacy Automation Solution	50	\$60,392	\$12,736	\$73,128
Srihari, Dr. Krishnaswami	LiveOnNY	Performance Improvement of Clinical Practices and Operations Research 2019-2020	25	\$1,250	\$325	\$1,575
Wang, Dr. Yong	Montefiore Hospital and Medical Center	Business Process Engineering Support for Network Management Systems CMO (AMD 22)	33	\$6,803	\$1,254	\$8,057
Wang, Dr. Yong	EOS Energy Enterprises	Application Engineering Support for Technical Solutions in Battery Energy	33	\$3,743	\$973	\$4,717

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Wang, Dr. Yong	Raymond Corporation	Standard Work Documentation and Performance improvement in Raymond Logistics	33	\$9,532	\$1,881	\$11,413
Wang, Dr. Yong	Raymond Corporation	Supporting New Logistics Network and Transportation System Implementation	33	\$4,354	\$1,132	\$5,486
Wang, Dr. Yong	Finger Lakes Community Health (FLCH)	Population Health and Operations Management for Sustainable and Comprehensive Quality Care	33.3	\$2,611	\$679	\$3,290
Wang, Dr. Yong	MaineHealth	Health Care Performance, Quality, and Safety Improvement at MaineHealth	33.3	\$2,136	\$555	\$2,691
Won, Dr. Daehan	Koh Young Technology Incorporated	Development of Pick and Placement Machine On/Offline Optimization and Diagnosis Modules in Printed Circuit Board Assembly Process	33	\$1,907	\$0	\$1,907
Won, Dr. Daehan	Koh Young Technology Incorporated	Development of Closed-Loop Control and Optimization Modules of the Printed Circuit Board Assembly Processes in Surface Mount Technology	33	\$463	\$264	\$727
Won, Dr. Daehan	Sapphire Automation	Digital Transformation of Smart Manufacturing Using an AI/ML - based Approach	33	\$6,209	\$1,532	\$7,740
Won, Dr. Daehan	Koh Young Technology Incorporated	Development of Pick and Placement Machine On/Offline Optimization and Diagnosis Modules in Printed Circuit Board Assembly Process	33	\$31,370	\$17,881	\$49,252
Won, Dr. Daehan	LiveOnNY	Performance Improvement of Clinical Practices and Operations Research 2020-2021	25	\$4,454	\$1,044	\$5,499
Won, Dr. Daehan	Nano-Bio Materials Consortium	Epifluidics for Stress Monitoring	30	\$16,609	\$7,415	\$24,024
Won, Mr. Daehan	LiveOnNY	Performance Improvement of Clinical Practices and Operations Research 2019-2020	25	\$1,250	\$325	\$1,575

<u><i>Investigator</i></u>	<u><i>Sponsor Name</i></u>	<u><i>Award Title</i></u>	<u><i>% Credited to Investigator</i></u>	<u><i>Direct Costs Expended</i></u>	<u><i>F & A Expended</i></u>	<u><i>Total Expended</i></u>
Yoon, Dr. Sangwon	Innovation Associates	Implementing Business Intelligence and Analytics to Large-Scale Pharmacy Automation Solution	50	\$60,392	\$12,736	\$73,128
Yoon, Dr. Sangwon	Koh Young Technology Incorporated	Development of Closed-Loop Control and Optimization Modules of the Printed Circuit Board Assembly Processes in Surface Mount Technology	33	\$463	\$264	\$727
Yoon, Dr. Sangwon	Innovation Associates	Development of a Simulation-Based Pharmacy Automation System Test Environment Integrated with Virtual Machine Emulators	33	\$10,176	\$2,646	\$12,821
Yoon, Dr. Sangwon	Sapphire Automation	Digital Transformation of Smart Manufacturing Using an AI/ML - based Approach	33	\$6,209	\$1,532	\$7,740
Yoon, Dr. Sangwon	LiveOnNY	Performance Improvement of Clinical Practices and Operations Research 2020-2021	25	\$4,454	\$1,044	\$5,499
Yoon, Dr. Sangwon	Innovation Associates	Large-Volume Central Fill Pharmacy System Automation Using Simulation, Optimization, Data Analytics and Industry 4.0 Principles	33	\$86,410	\$14,948	\$101,359
Yoon, Dr. Sangwon	Bennett Distribution Services Limited Liability Corporation	Warehouse Operations Management and Analytics Research And Development	50	\$7,297	\$1,897	\$9,194
Yoon, Dr. Sangwon	Raymond Corporation	Supporting New Logistics Network and Transportation System Implementation	33	\$4,354	\$1,132	\$5,486
Yoon, Dr. Sangwon	LiveOnNY	Performance Improvement of Clinical Practices and Operations Research 2019-2020	25	\$1,250	\$325	\$1,575
Yoon, Dr. Sangwon	Koh Young Technology Incorporated	Development of Pick and Placement Machine On/Offline Optimization and Diagnosis Modules in Printed Circuit Board Assembly Process	33	\$1,907	\$0	\$1,907
Yoon, Dr. Sangwon	Koh Young Technology Incorporated	Development of Pick and Placement Machine On/Offline Optimization and Diagnosis Modules in Printed Circuit Board Assembly Process	33	\$31,370	\$17,881	\$49,252

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Yoon, Dr. Sangwon	Koh Young Technology Incorporated	Process Failure Mode Effect Analysis & Development of Printer Advising/ Online Modules in Printed Circuit Board Assembly Process	25	\$20,738	\$11,613	\$32,351
Yoon, Dr. Sangwon	Raymond Corporation	Standard Work Documentation and Performance improvement in Raymond Logistics	33	\$9,532	\$1,881	\$11,413

Department Total: \$10,071,346

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Craver, Dr. Scott	National Science Foundation	The State University of New York (SUNY) LSAMP: Meeting the Grand Challenge of Preparing Students for Successful Transition into STEM Majors and Beyond	100	\$70,023	\$11,426	\$81,449
Ghose, Dr. Kanad	NVIDIA Corporation	NVIDIA 2020 I/UCRC (ES2) Membership Agreement	50	\$4,091	\$409	\$4,500
Ghose, Dr. Kanad	Multiple Sponsors	Memberships for NSF Industry/University Cooperative Research Center in Energy-Smart Electronic systems	50	\$24,834	\$0	\$24,834
Ghose, Dr. Kanad	Multiple Sponsors	Memberships for NSF Industry/University Cooperative Research Center in Energy-Smart Electronic systems	50	\$12,333	\$0	\$12,333
Ghose, Dr. Kanad	Vertiv	Vertiv's ES2/ IUCRC Membership 2020-2021	50	\$3,598	\$360	\$3,958
Ghose, Dr. Kanad	BAE Systems Controls Incorporated	BAE 2020 ES2 I/UCRC membership Agreement	50	\$22,329	\$2,233	\$24,562
Ghose, Dr. Kanad	Bloomberg LP	Industry/University Cooperative Research Center in Energy-Smart Electronic Systems Membership (ES2)	50	\$13,141	\$1,314	\$14,455
Ghose, Dr. Kanad	Villanova University	PHASE II- IUCRC Center for Energy-Smart Electronic Systems - Subaward 525877 FleischerBinghamton	50	\$9,223	\$5,257	\$14,480

<u><i>Investigator</i></u>	<u><i>Sponsor Name</i></u>	<u><i>Award Title</i></u>	<u><i>% Credited to Investigator</i></u>	<u><i>Direct Costs Expended</i></u>	<u><i>F & A Expended</i></u>	<u><i>Total Expended</i></u>
Ghose, Dr. Kanad	Xilinx	Xilinx I/UCRC Membership 2017-2022	50	\$11,787	\$1,179	\$12,966
Ghose, Dr. Kanad	University of Texas at Arlington	Phase II IUCRC University of Texas at Arlington Center for Energy Smart Electronic Systems - UTA NSF Award 1738811	50	\$16,371	\$9,332	\$25,703
Ghose, Dr. Kanad	National Science Foundation	Phase II IUCRC Binghamton University Center for Energy-Smart Electronic Systems (ES2)	50	\$13,131	\$7,485	\$20,616
Ghose, Dr. Kanad	Future Facilities Incorporated	Future Facilities ES2 Membership	50	\$17,193	\$1,719	\$18,913
Ghose, Dr. Kanad	Multiple Sponsors	Memberships for NSF Industry/University Cooperative Research Center in Energy-Smart Electronic systems	50	\$2,112	\$211	\$2,323
Majors, Ms. Monica	NYS Education Department	Science Technology Entry Program 2020-2021	50	\$56,502	\$4,140	\$60,642
Majors, Ms. Monica	NYS Education Department	2019-2020 Science and Technology Entry Program (STEP)	50	\$1,827	\$146	\$1,973
Park, Dr. Seungbae	Snake Creek Lasers LLC	Snake Creek Lasers dba Advanced Photonic Sciences IEEC Membership	100	\$4,138	\$828	\$4,966
Park, Dr. Seungbae	IBM Corporation	IEEC Membership- IBM 2018-2022 Agreement No 4913015695.1	100	\$9,434	\$1,887	\$11,321
Park, Dr. Seungbae	Analog Devices, Incorporated	Analog Devices Full Membership in the IEEC 2019-2021	100	\$47,568	\$9,514	\$57,082
Park, Dr. Seungbae	Menlo Microsystems Incorporated	Menlo Microsystems Participating Membership In the IEEC	100	\$4,153	\$831	\$4,984

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Park, Dr. Seungbae	Lockheed Martin Corporation	Lockheed Martin's IEEC Membership	100	\$77,955	\$15,591	\$93,546
Park, Dr. Seungbae	Sanmina Corporation	2018-2021 Sanmina IEEC Membership	100	\$2,147	\$429	\$2,576
Park, Dr. Seungbae	Raymond Corporation	Raymond Corporation's Participating Membership in the IEEC 2018-2021	100	\$3,937	\$787	\$4,724
Park, Dr. Seungbae	BAE Systems Controls Incorporated	BAE Full Membership in the IEEC 2018/2019/2020	100	\$3,788	\$758	\$4,545
Park, Dr. Seungbae	NYS Department of Economic Development	NYS CAT Funding for 2020-2021	100	\$484,708	\$71,213	\$555,920
Park, Dr. Seungbae	Universal Instruments Corporation	Universal Instruments Annual Participating Membership IEEC	100	\$4,081	\$816	\$4,897
Park, Dr. Seungbae	Dupont Speciality Products USA LLC	E.I. du Pont IEEC Membership	100	\$4,162	\$833	\$4,995
Park, Dr. Seungbae	Xilinx	IEEC Center Membership Agreement	100	\$57,069	\$11,414	\$68,482
Park, Dr. Seungbae	Unison Industries LLC	Unison Participating Membership 2017-2018, 2018-2019, 2019-2020, 2020-2021	100	\$159	\$32	\$191
Park, Dr. Seungbae	Prismark Partners LLC	Prismark Partner's Participating Membership in the IEEC	100	\$20,618	\$4,124	\$24,742
Park, Dr. Seungbae	Advanced Semiconductor Engineering Incorporated	ASE's Membership in the IEEC, 2015-2021	100	\$27,619	\$5,524	\$33,143

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Park, Dr. Seungbae	Corning Incorporated	IEEC Membership 2015-2021 - Corning Inc.	100	\$64,985	\$12,997	\$77,981
Park, Dr. Seungbae	NYS Department of Economic Development	Center for Advanced Technology September 1, 2015-June 30, 2020	100	\$33,862	\$5,660	\$39,522
Park, Dr. Seungbae	Excelitas Technologies	IEEC Membership Excelitas 2021-2022	100	\$3,567	\$713	\$4,280
Park, Dr. Seungbae	Koh Young Technology Incorporated	Integrated Electronics Engineering Center Membership 2018-2022	100	\$43,340	\$8,668	\$52,008
Sammakia, Dr. Bahgat G	Vertiv	Vertiv's ES2/ IUCRC Membership 2020-2021	50	\$3,598	\$360	\$3,958
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence - Small Scale Systems Integration and Packaging (S3IP 2020-2021)	100	\$304,930	\$42,579	\$347,510
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence - Small Scale Systems Integration and Packaging (S3IP 2020-2021)	100	\$204,939	\$30,741	\$235,680
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence - Small Scale Systems Integration and Packaging (S3IP 2020-2021)	100	\$19,698	\$2,955	\$22,653
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence - Small Scale Systems Integration and Packaging (S3IP 2020-2021)	100	\$20,378	\$3,057	\$23,435
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence - Small Scale Systems Integration and Packaging (S3IP 2020-2021)	100	\$19,698	\$2,955	\$22,652
Sammakia, Dr. Bahgat G	Multiple Sponsors	Memberships for NSF Industry/University Cooperative Research Center in Energy-Smart Electronic systems	50	\$2,112	\$211	\$2,323

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Sammakia, Dr. Bahgat G	BAE Systems Controls Incorporated	BAE 2020 ES2 I/UCRC membership Agreement	50	\$22,329	\$2,233	\$24,562
Sammakia, Dr. Bahgat G	Multiple Sponsors	Memberships for NSF Industry/University Cooperative Research Center in Energy-Smart Electronic systems	50	\$24,834	\$0	\$24,834
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence Small Scale Systems Integration and Packaging (S3IP) 2019-2020	100	\$19,791	\$2,969	\$22,759
Sammakia, Dr. Bahgat G	Multiple Sponsors	Memberships for NSF Industry/University Cooperative Research Center in Energy-Smart Electronic systems	50	\$12,333	\$0	\$12,333
Sammakia, Dr. Bahgat G	NVIDIA Corporation	NVIDIA 2020 I/UCRC (ES2) Membership Agreement	50	\$4,091	\$409	\$4,500
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence Small Scale Systems Integration and Packaging (S3IP) 2019-2020	100	\$598	\$90	\$688
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence Small Scale Systems Integration and Packaging (S3IP) 2019-2020	100	\$641	\$96	\$738
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence Small Scale Systems Integration and Packaging (S3IP) 2019-2020	100	\$5,382	\$807	\$6,190
Sammakia, Dr. Bahgat G	Bloomberg LP	Industry/University Cooperative Research Center in Energy-Smart Electronic Systems Membership (ES2)	50	\$13,141	\$1,314	\$14,455
Sammakia, Dr. Bahgat G	Villanova University	PHASE II- IUCRC Center for Energy-Smart Electronic Systems - Subaward 525877 FleischerBinghamton	50	\$9,223	\$5,257	\$14,480
Sammakia, Dr. Bahgat G	Xilinx	Xilinx I/UCRC Membership 2017-2022	50	\$11,787	\$1,179	\$12,966

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Sammakia, Dr. Bahgat G	University of Texas at Arlington	Phase II IUCRC University of Texas at Arlington Center for Energy Smart Electronic Systems - UTA NSF Award 1738811	50	\$16,371	\$9,332	\$25,703
Sammakia, Dr. Bahgat G	National Science Foundation	Phase II IUCRC Binghamton University Center for Energy-Smart Electronic Systems (ES2)	50	\$13,131	\$7,485	\$20,616
Sammakia, Dr. Bahgat G	Future Facilities Incorporated	Future Facilities ES2 Membership	50	\$17,193	\$1,719	\$18,913
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence Small Scale Systems Integration and Packaging (S3IP) 2019-2020	100	\$598	\$90	\$688
Srihari, Dr. Krishnaswami	Multiple Sponsors	Income Received Through Watson School Continuing Education for SSIE Activities	100	\$35,289	\$8,822	\$44,112
Srihari, Dr. Krishnaswami	Multiple Sponsors	Income from Watson School Continuing Education Miscellaneous Activities	100	\$51,619	\$12,905	\$64,523

Department Total: \$2,344,879

Total:	\$46,533,629
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