

# Sponsored Programs Expenditure Report

For the period July 1, 2019 - June 30, 2020



<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
<b>020 Acad Affairs Assoc VP</b>						
Light, Ms. Caitlin J.	Dr. Gary Jernberg	Effect of Hyaluronic Acid and cis-2-decenoic Acid on Porphyromonas Gingivalis Biofilms	100	\$3,299	\$825	\$4,123
				<b>Department Total:</b>		<b>\$4,123</b>
<b>020 Acad Affairs Prov VP</b>						
Fegley, Dr. Megan Elizabeth Audrey	University of Georgia	Momentary Assessment of Research Learning Enviroments	100	\$3,720	\$1,860	\$5,580
Imbruce, Ms. Valerie	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$49,628	\$14,241	\$63,869
Imbruce, Ms. Valerie	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$70,898	\$0	\$70,898
Imbruce, Ms. Valerie	US Department of Education	Ronald E. McNair Post-Baccalaureate Achievement 2017-2022	100	\$215,486	\$13,904	\$229,390
Imbruce, Ms. Valerie	US Department of Education	Ronald E. McNair Post-Baccalaureate Achievement 2017-2022	100	\$27,397	\$0	\$27,397
Imbruce, Ms. Valerie	National Endowment for the Humanities	Situating Chemical Elements in the Human World to Innovate Undergraduate Education	50	\$11,633	\$6,631	\$18,264
Pitarresi, Dr. James	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$49,628	\$14,241	\$63,869

<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 &amp; A Expended</i></u>	<u><i>Total Expended</i></u>
Pitarresi, Dr. James	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$70,898	\$0	\$70,898
Stamp, Dr. Nancy E	National Science Foundation	GP-EXTRA: Freshman Research in Biogeochemistry for Engagement and Retention	20	\$6,532	\$3,266	\$9,798
Withers, Ms. Michelle D	National Science Foundation	RCN-UBE: Networking STEM initiatives to enhance (NSITE) adoption of Evidence-Based Practices	100	\$41,550	\$23,683	\$65,233
Withers, Ms. Michelle D	National Science Foundation	RCN-UBE: Networking STEM initiatives to enhance (NSITE) adoption of Evidence-Based Practices	100	\$52,080	\$0	\$52,080

***Department Total: \$677,275***

***020 Anthropology***

Digangi, Dr. Elizabeth Ann	US Department of Justice	Initiation of a Gunshot Wound Trauma Atlas from Cranial Bone	100	\$32,268	\$17,747	\$50,015
Digangi, Dr. Elizabeth Ann	US Department of Justice	Microbial Community Succession in Human and Pig Decomposition	100	\$7,203	\$0	\$7,203
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	\$1,566	\$0	\$1,566
McGuire, Dr. Randy	National Science Foundation	Conceptualizing Cultural Contact And Transmission Across International Boundaries	100	\$33,311	\$8,416	\$41,727
Merriwether, Dr. David A	Multiple Sponsors	Income Account for Unrestricted Support for A. Merriwether	100	\$3,111	\$467	\$3,577
Sanger, Dr. Matthew	Hilton Head Archaeological	Hilton Head Island Archaeological - Mitchelville Dig	100	\$961	\$144	\$1,105

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Sanger, Dr. Matthew	National Science Foundation	Collaborative Research: Examination of Sites on the Georgia Bight Coastline	100	\$17,236	\$4,481	\$21,717
Sanger, Dr. Matthew	National Science Foundation	Collaborative Research: Examination of Sites on the Georgia Bight Coastline	100	\$7,306	\$0	\$7,306
Wander, Dr. Katherine	Leakey Foundation	Trade-Offs in Milk Immunity	100	\$18,731	\$0	\$18,731
Wander, Dr. Katherine	National Science Foundation	Human adaption in high-pathogen enviroments: iron, infection, and child growth and development	100	\$19,725	\$11,243	\$30,968
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	\$4,355	\$1,132	\$5,488

**Department Total: \$189,404**

**020 Art History**

Smart, Dr. Pamela	National Endowment for the Humanities	Situating Chemical Elements in the Human World to Innovate Undergraduate Education	50	\$11,633	\$6,631	\$18,264
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**Department Total: \$18,264**

**020 Arts and Sciences Dean**

Holahan, Dr. Robert A	National Science Foundation	Collaborative Research: Technological Shocks and Institutional Effectiveness under Heterogeneous Risk	100	\$63,011	\$29,469	\$92,480
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**Department Total: \$92,480**

**020 Asian Asian-American Studies**

Chen, Dr. Zu-yan	Confucius Institute of China	Confucius Institute of Chinese Opera	100	\$84,077	\$0	\$84,077
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Cho, Dr. Sungdai	Cornell University	Korean at the Nexus of the Northeast Asia Linguistic Area	100	\$89,161	\$8,916	\$98,077
<b>Department Total:</b>				<b>\$182,154</b>		
<b>020 Biological Sciences</b>						
Chang, Dr. Howard C	National Institute of General Medical Sciences	The Role of Superoxide Dismutase SOD-1 in Microbe-Gut-Brain Interaction	100	\$19,717	\$11,239	\$30,956
Cook, Dr. Laura	National Institute of Allergy & Infectious Disease	Transcriptomic and Genetic Differences of Group A Streptococcus in Humans: Acute Infection Versus Carriage	100	\$92,084	\$28,240	\$120,324
Fiumera, Dr. Anthony	National Institute of General Medical Sciences	Using Natural Variation to Map Mitochondrial-Nuclear Interactions in Yeast	25	\$18,521	\$8,276	\$26,797
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	\$7,370	\$4,201	\$11,571
Fiumera, Dr. Heather	National Institute of General Medical Sciences	Using Natural Variation to Map Mitochondrial-Nuclear Interactions in Yeast	50	\$37,043	\$16,552	\$53,594
Marques, Dr. Claudia	National Inst of Environmental Health Sciences	Engineering a Small Intestinal Microbiome To Evaluate Food Additive Exposure	50	\$92,102	\$50,951	\$143,053
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	\$38,291	\$21,826	\$60,118
Musselman, Dr. Laura	American Heart Association Western State Affiliate	Identification of Lipotoxins Affecting Cardiac Physiology in the Face of Caloric Overload	100	\$32,479	\$3,248	\$35,726
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	\$34,393	\$19,604	\$53,998

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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	\$66,098	\$37,676	\$103,773
Powell, Mr. Thomas	National Geographic Society	Cynipid parasitoid interactions in the hotspot of diversity: cryptic associations in the context of global change	50	\$6,713	\$0	\$6,713
Prior, Ms. Kirsten	National Geographic Society	Cynipid parasitoid interactions in the hotspot of diversity: cryptic associations in the context of global change	50	\$6,713	\$0	\$6,713
Prior, Ms. Kirsten	National Science Foundation	EAGER: Uncovering the Role of Altered Cryptic Interactions in Driving the Demographic Success of a Range-Expanding Species	100	\$2,381	\$619	\$3,000
Sauer, Dr. Karin	National Institute of Allergy & Infectious Disease	Role of PA4878 in biofilm antimicrobial resistance	100	\$140,684	\$77,376	\$218,061
Sobel, Dr. James	National Science Foundation	Collaborative Research: ROL: Rapid Evolution of Reproductive Isolation via Hybrid Seed Lethality in Mimulus	100	\$25,065	\$14,287	\$39,352
Stamp, Dr. Nancy E	Howard Hughes Medical Institute	Howard Hughes Support - Freshman Research Immersion (FRI) Models	50	\$23,302	\$0	\$23,302
Withers, Ms. Michelle D	National Science Foundation	Mobile Summer Institutes: Creating Points of Transformation in Post-Secondary STEM Education	100	\$49,200	\$28,044	\$77,244
Zhu, Dr. Weixing	National Science Foundation	GP-EXTRA: Freshman Research in Biogeochemistry for Engagement and Retention	20	\$6,532	\$3,266	\$9,798

**Department Total: \$1,024,093**

**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	\$54,893	\$30,752	\$85,646
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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	\$5,500	\$0	\$5,500
German, Dr. Guy K	Multiple Sponsors	Susan Pardee Baker Trust - Unrestricted Research Support	50	\$1,053	\$158	\$1,211
German, Dr. Guy K	National Science Foundation	I-Corps: Pressure Ulcer Prevention Pad	100	\$13,489	\$1,499	\$14,988
German, Dr. Guy K	VentureWell	Preventing Rolling Veins	100	\$2,002	\$0	\$2,002
German, Dr. Guy K	National Science Foundation	RAPID: Ultraviolet Germicidal Irradiation for Disinfecting and Reuse of N95 Respirators	30	\$1,574	\$897	\$2,471
Hookway, Ms. Tracy	National Heart Lung and Blood Institute	Heterotypic impacts on epicardial cells on engineered cardiac microtissue function	100	\$13,225	\$7,538	\$20,763
Jin, Dr. Sha	National Science Foundation	Molecular mechanisms of tissue specific signaling for islet self-assembly	80	\$3,396	\$1,936	\$5,332
Jin, Dr. Sha	National Inst of Biomedical Imaging and Bioenginee	Generation of Islet Organoids in Oxygenated Scaffolds	75	\$182	\$104	\$286
Jin, Dr. Sha	National Science Foundation	MRI: Acquisition of a High-Throughput Flow Cytometry for Health Science Research and Training	40	\$138,435	\$0	\$138,435
Koh, Dr. Ahyeon	National Science Foundation	Power-On-Skin: Energy Generation from Sweat-Eating Bacteria for Self-Powered Electronic Skins	40	\$4,362	\$2,486	\$6,848
Koh, Dr. Ahyeon	Sete Digital LTDA	Apolo Project	100	\$6,518	\$3,715	\$10,233

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Koh, Dr. Ahyeon	Nano-Bio Materials Consortium	Epifluidics for Stress Monitoring	45	\$338	\$192	\$530
Lu, Dr. Fake (Frank)	National Institutes of Health	Stimulated Raman imaging for label-free histology to guide brain tumor surgery	100	\$145,745	\$70,951	\$216,696
Mahler, Dr. Gretchen J	National Inst of Environmental Health Sciences	Engineering a Small Intestinal Microbiome To Evaluate Food Additive Exposure	50	\$92,102	\$50,951	\$143,053
Mahler, Dr. Gretchen J	Alternatives Research & Development Foundation	Engineering a kidney glomerulus and proximal tube on a chip	100	\$8,398	\$840	\$9,238
Mahler, Dr. Gretchen J	National Science Foundation	Mechanobiology of Myofibroblast Behavior in Health and Disease	25	\$16,910	\$9,578	\$26,488
Mahler, Dr. Gretchen J	National Science Foundation	Mechanobiology of Myofibroblast Behavior in Health and Disease	25	\$1,000	\$0	\$1,000
Mahler, Dr. Gretchen J	American Heart Association Western State Affiliate	Three-dimensional Valve-on-a-chip Models of the Aortic Valve Fibrosa	100	\$8,590	\$0	\$8,590
Wan, Dr. Yuan	Pennsylvania State University	Lipid Nanoprobe Intergrated Microdevice for Extracellular Vesicle Isolation and Duplex Sequencing Based Mutation Detection for Non-Invasive Lung Cancer Diagnosis	100	\$52,874	\$30,138	\$83,012
Ye, Dr. Kaiming	Johns Hopkins University	NIST Professional Research Experience Program (PREP) Partnership	100	\$95,310	\$24,781	\$120,091
Ye, Dr. Kaiming	National Science Foundation	RAPID: Ultraviolet Germicidal Irradiation for Disinfecting and Reuse of N95 Respirators	70	\$3,672	\$2,093	\$5,766
Ye, Dr. Kaiming	National Science Foundation	MRI: Acquisition of a High-Throughput Flow Cytometry for Health Science Research and Training	40	\$138,435	\$0	\$138,435

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Ye, Dr. Kaiming	National Inst of Biomedical Imaging and Bioenginee	Generation of Islet Organoids in Oxygenated Scaffolds	25	\$61	\$35	\$95
Ye, Dr. Kaiming	National Science Foundation	ICorps: Development of Genome Edited Cancer Vaccines	100	\$39,865	\$4,429	\$44,294
Ye, Dr. Kaiming	Johns Hopkins University	NIST Professional Research Experience Program (PREP) Partnership	100	\$24,731	\$6,430	\$31,161
Ye, Dr. Kaiming	National Science Foundation	REU Site: Undergraduate Research Experience in Biomedical Translational Science and Technology Development	100	\$20,989	\$0	\$20,989
Ye, Dr. Kaiming	National Science Foundation	REU Site: Undergraduate Research Experience in Biomedical Translational Science and Technology Development	100	\$36,645	\$20,887	\$57,532
Ye, Dr. Kaiming	National Science Foundation	Molecular mechanisms of tissue specific signaling for islet self-assembly	20	\$849	\$484	\$1,333

**Department Total: \$1,202,018**

**020 CCPA Deans Office**

Bronstein, Dr. Laura R	Multiple Sponsors	Continuing Education Activities	100	\$53,288	\$7,993	\$61,281
Bronstein, Dr. Laura R	Conrad and Virginia Klee Foundation	Community Engagement with Families in the North Side of Binghamton	50	\$4,003	\$0	\$4,003
Bronstein, Dr. Laura R	Multiple Sponsors	CCPA Miscellaneous Income	100	\$215,423	\$32,313	\$247,736
Bronstein, Dr. Laura R	NYS Education Department	Community Schools Regional Technical Assistance Center (TAC)	100	\$302,798	\$66,586	\$369,384



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Kida, Ms. LuAnn F	Broome County Youth Bureau	2019 Summer Zones of Broome County Promise Zones	100	\$7,807	\$781	\$8,587
Kida, Ms. LuAnn F	United Way of Broome County Inc	BUS Bucks (2019-2020)	100	\$2,360	\$354	\$2,714
Kida, Ms. LuAnn F	US Department of Education	Binghamton University Community Schools PLACE (Partnerships for Learning and Community Engagement) Initiative	30	\$28,518	\$4,232	\$32,749
Kida, Ms. LuAnn F	United Way of Broome County Inc	Community School Youth Mentors (Summer Zone)	100	\$4,894	\$734	\$5,629
Kida, Ms. LuAnn F	United Way of Broome County Inc	Community Engagement with Families on the North Side of Binghamton	100	\$182	\$27	\$210
Kida, Ms. LuAnn F	Whole Kids Foundation	Educational Edible Garden Program	100	\$1,901	\$0	\$1,901
Kida, Ms. LuAnn F	Conrad and Virginia Klee Foundation	Community Engagement with Families in the North Side of Binghamton	50	\$4,003	\$0	\$4,003
Kida, Ms. LuAnn F	Broome County Department of Mental Health	Binghamton University Community Schools	100	\$129,553	\$19,433	\$148,986
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	\$11,258	\$0	\$11,258
Mastroleo, Dr. Nadine	Brown University	Behavioral Science and Biostatistics Resource Code for Alcohol-HIV Research Federal Award 5U24AA022003-06	100	\$5,153	\$2,834	\$7,987
Mastroleo, Dr. Nadine	Brown University	Enhancing the Efficacy and Duration of a Brief Alcohol Intervention Using Self-Affirmation-1R01AA025643-01	100	\$70,829	\$26,178	\$97,007

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Mastroleo, Dr. Nadine	SiMmersion	Simulated Clinician Assessment for Cognitive Behavioral Therapy Skills R01MH112625	33.4	\$38,714	\$21,503	\$60,217
Mastroleo, Dr. Nadine	National Institute for Alcohol Abuse & Alcoholism	An Integrated Brief Alcohol and PTSD Intervention for Veterans in Primary Care	50	\$76,918	\$2,918	\$79,836
Schaffer, Mr. David	National Institutes of Health	Perivascular Transport of Solutes from the Brain	33	\$24,277	\$6,863	\$31,139
Schaffer, Mr. David	Griffiss Institute	Exploration of Machine Learning for Skill Acquisition	100	\$7,759	\$4,423	\$12,182

**Department Total: \$1,186,809**

**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	\$63,752	\$35,063	\$98,815
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**Department Total: \$98,815**

**020 CCPA Social Work**

Rizzo, Dr. Victoria	SiMmersion	Simulated Clinician Assessment for Cognitive Behavioral Therapy Skills R01MH112625	33.3	\$38,598	\$21,439	\$60,037
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**Department Total: \$60,037**

**020 CCPA Student Affairs**

Zilvinskis, Dr. John	NACADA	Measuring the Academic Advising Experience for Students with Disabilities	100	\$4,099	\$0	\$4,099
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**Department Total: \$4,099**

**020 CCPA Teaching Learning Educ Leadership**

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Humphrey, Ms. Amy L.	Multiple Sponsors	Income Account for Liberty Partnership Activities	100	\$175,091	\$14,007	\$189,098
Humphrey, Ms. Amy L.	NYS Education Department	Liberty Partnerships Program 2018-2019	100	\$87,301	\$6,984	\$94,285
Humphrey, Ms. Amy L.	NYS Education Department	Liberty Partnership Program 2019-2020	100	\$335,282	\$26,823	\$362,104
Malin, Dr. Jo E.	US Department of Education	Talent Search Program 2017-2021	100	\$318,647	\$25,492	\$344,139
Mellin, Dr. Elizabeth	US Department of Education	Binghamton University Community Schools PLACE (Partnerships for Learning and Community Engagement) Initiative	70	\$66,541	\$9,874	\$76,415
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	\$51,873	\$23,928	\$75,801

**Department Total: \$1,141,842**

**020 Chemistry**

An, Dr. Ming	National Institute of General Medical Sciences	Rational Design of pH-Low Insertion Peptides for Cargo Delivery	70	\$67,723	\$38,602	\$106,325
An, Dr. Ming	National Science Foundation	I-Corps: pH-sensitive Prodrug for Targeted Cancer Chemotherapy	100	\$29,089	\$3,232	\$32,321
Bane Tuttle, Dr. Susan B	National Cancer Institute	Coupling through Boron: Fast, Tunable, and Versatile Bioorthogonal Reactions Producing Boron-Containing Heterocycles	100	\$76,768	\$42,672	\$119,440
Callahan, Dr. Brian P	Rensselaer Polytechnic Institute	Structural Mechanisms of Hedgehog Autoprocessing in Physiology and Disease PTE 1R01CA206592-01-A1 - Subaward A12815	100	\$56,373	\$31,005	\$87,379

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Callahan, Dr. Brian P	Rensselaer Polytechnic Institute	National Cancer Insitute Diversity Supplement for Andrew Wagner	100	\$38,350	\$19,443	\$57,793
Chernova, Ms. Natalya A.	National Science Foundation	MRI: Acquisition of a Hard X-Ray PhotoElectron Spectroscop (HAXPES) for the Institute for Materials Research (IMR) at Binghamton University (BU)	10	\$88,000	\$0	\$88,000
Dimitrov, Mr. Nikolay	Purdue University	Dimitrov 2020 SRC CHIRP: Fine Pitch Cu-Sn Based Interconnection Below Temperatures of 180oC	100	\$11,646	\$6,638	\$18,285
Fang, Dr. Jiye	National Science Foundation	Manipulating and Exploiting Lattice Strain as a Novel Platform to Tune the Surface Work Function of Mtallic Nanocatalysts	100	\$47,687	\$26,084	\$73,770
Fang, Dr. Jiye	Aegis Technology	Unrestricted Research Support	100	\$1,594	\$239	\$1,833
Fang, Dr. Jiye	Cornell University	Development of Advanced ORR/ HOR Nano-Electrocatalysts in Alkaline Media Federal Award no DE-SC0019445	100	\$63,032	\$31,570	\$94,602
Fang, Dr. Jiye	National Science Foundation	Scholarships and Nanofabrication Experience: Successful Transitions from Community College to Graduate School	25	\$5,638	\$1,612	\$7,250
Fang, Dr. Jiye	National Science Foundation	Scholarships and Nanofabrication Experience: Successful Transitions from Community College to Graduate School	25	\$13,625	\$0	\$13,625
Fang, Dr. Jiye	American Chemical Society	Ceria Facet Dependent Oxidative Coupling of Methane Towards C2 Products	100	\$38,990	\$0	\$38,990
Goyal, Ms. Puja	Research Corporation for Science Advancement	Proton Coupled Electron Transfer in Batteries on Quinone Crystals: Integrated Experimental And Theoretical	100	\$28,500	\$0	\$28,500
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	\$37,595	\$21,429	\$59,023

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Grewer, Dr. Christof	Icahn School of Medicine at Mount Sinai	Substrate Specificity Determinants in Nutrient Solute Carrier Transporters	100	\$52,190	\$28,754	\$80,944
Jones, Dr. Wayne E	National Science Foundation	Scholarships and Nanofabrication Experience: Successful Transitions from Community College to Graduate School	25	\$13,625	\$0	\$13,625
Jones, Dr. Wayne E	National Science Foundation	Scholarships and Nanofabrication Experience: Successful Transitions from Community College to Graduate School	25	\$5,638	\$1,612	\$7,250
Panetier, Dr. Julien	National Institute of General Medical Sciences	Computational Modeling of Carbon Monoxide Dehydrogenase Model Systems for Carbon Dioxide Fixation	100	\$17,179	\$9,243	\$26,422
Qiang, Mr. Wei	National Institute of General Medical Sciences	Molecular mechanisms of membrane disruption induced by early-stage aggregation of beta-amyloid peptides	100	\$182,963	\$75,210	\$258,173
Qiang, Mr. Wei	National Institute of General Medical Sciences	Molecular mechanisms of membrane disruption induced by early-stage aggregation of beta-amyloid peptides	100	\$46,514	\$0	\$46,514
Rozners, Mr. Eriks	National Science Foundation	Dynamics and Energetics of Secondary-Active Glutamate Transport	100	\$48,846	\$26,077	\$74,923
Rozners, Mr. Eriks	National Science Foundation	MRI: Acquisition of a High-Throughput Flow Cytometry for Health Science Research and Training	20	\$69,218	\$0	\$69,218
Rozners, Mr. Eriks	Binghamton City School District	2019 Go Green Institute at Binghamton University	100	\$50,200	\$28,614	\$78,815
Rozners, Mr. Eriks	National Institute of General Medical Sciences	Chemical approaches to control the function of regulatory RNAs	100	\$15,000	\$0	\$15,000
Rozners, Mr. Eriks	National Institute of General Medical Sciences	Chemical approaches to control the function of regulatory RNAs	100	\$291,925	\$150,745	\$442,670

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Rozners, Mr. Eriks	National Science Foundation	Dynamics and Energetics of Secondary-Active Glutamate Transport	100	\$13,813	\$0	\$13,813
Rozners, Mr. Eriks	National Institute of General Medical Sciences	Amide-Modified RNA: Synthesis, Structure and Potential for RNA Interference	100	\$429	\$236	\$665
Rozners, Mr. 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	\$121,656	\$67,977	\$189,633
Sadik, Dr. Omowunmi A	National Science Foundation	BREAD PHENO: Development and Field Testing of Paper-based Biosensors to Increase Productivity of Smallholder Agriculture in Developing Countries	100	\$33,925	\$4,316	\$38,241
Solmaz, Ms. Sozanne	National Institute of General Medical Sciences	Cell cycle-specific recognition of the cell nucleus as cargo for dynein-dependent transport	100	\$48,401	\$27,588	\$75,989
Swierk, Dr. John	American Chemical Society	Photochemical Oxidation of Refractory Sulfur Compounds for Fuel Desulfurization	100	\$20,921	\$0	\$20,921
Vetticatt, Dr. Mathew	National Institutes of Health	Novel Concepts and Mechanistic Probes in Catalysis	100	\$230,850	\$115,651	\$346,501
Vetticatt, Dr. Mathew	National Institutes of Health	400 MHz NMR Spectrometer for Regional NMR Facility	100	\$540,000	\$0	\$540,000
Whittingham, Dr. M Stanley	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$70,898	\$0	\$70,898
Whittingham, Dr. M Stanley	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$49,628	\$14,241	\$63,869
Whittingham, Dr. M Stanley	Pacific Northwest National Laboratory	The Stability of High Energy Lithium Batteries	100	\$43,664	\$24,352	\$68,016

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Whittingham, Dr. M Stanley	US Department of Energy	Battery500 Consortium - Development of High-Capacity Cathodes and Robust Solid Electrolytes	100	\$174,708	\$99,583	\$274,291
Whittingham, Dr. M Stanley	US Department of Energy	Northeast Center for Chemical Energy Storage(NECCES)	89.24	\$976,123	\$190,423	\$1,166,546
Whittingham, Dr. M Stanley	Materials Research Society	Binghamton Material Science Outreach Program (MSOP) 2019	100	\$760	\$0	\$760
Zhong, Dr. Chuan Jian	National Science Foundation	I-Corps: Copper-Based Nanowire Pastes for Solar Panels	100	\$19,861	\$2,207	\$22,068
Zhong, Dr. Chuan Jian	National Science Foundation	I-Corps: Low-Cost and Highly Efficient Hydrogen Production from Water Splitting	50	\$9,588	\$1,065	\$10,653
Zhong, Dr. Chuan Jian	National Science Foundation	I-Corps: Low-Cost and High-Durability Fuel Cells	100	\$36,592	\$4,065	\$40,657
Zhong, Dr. Chuan Jian	Meecotech Incorporated	Unrestricted Research	100	\$22,152	\$3,323	\$25,475
Zhong, Dr. Chuan Jian	National Science Foundation	PFI: AIR-TT: Scale-up Synthesis of Nanoparticles for Manufacturing Microelectrodes and Sensing Films of Indoor Air Quality Chemiresistor Sensors	100	\$1,016	\$579	\$1,595
Zhong, Dr. Chuan Jian	National Science Foundation	PFI: AIR-TT: Scale-up Synthesis of Nanoparticles for Manufacturing Microelectrodes and Sensing Films of Indoor Air Quality Chemiresistor Sensors	100	\$1,407	\$774	\$2,181
Zhong, Dr. Chuan Jian	National Science Foundation	Exploring Synergy of Composition-Tunable Nanoalloys for Catalytic Oxidation of Hydrocarbons	100	\$70,392	\$38,715	\$109,107
Zhong, Dr. Chuan Jian	BASF Corporation	Controlled synthesis of multi-metallic nanoscale alloys	100	\$34,295	\$19,548	\$53,843

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
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**Department Total: \$5,076,412**

**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	\$8,885	\$5,064	\$13,949
Chiu, Dr. Kenneth	National Institute of General Medical Sciences	Using Natural Variation to Map Mitochondrial-Nuclear Interactions in Yeast	25	\$18,521	\$8,276	\$26,797
Ghose, Dr. Kanad	Purdue University	CHIRP: Exploration of Holistic Scaleout Designs Within Heterogeneous Packages for HPC/Server Processors (Proposal Number	50	\$15,034	\$8,569	\$23,603
Ghose, Dr. Kanad	Purdue University	CHIRP: Higher Voltage Package Power Delivery and Power Management Systems for High-End SiPs (Proposal Number W32609)	50	\$14,006	\$7,983	\$21,989
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	\$13,267	\$7,562	\$20,830
Ghose, Dr. Kanad	Empire State Development Corp	Match to Improved ECG Monitor with Capacitive Electrodes	30	\$34,450	\$15,927	\$50,377
Ghose, Dr. Kanad	Flex Tech Alliance	Improved ECG Monitor with Capacitive Electrodes	30	\$33,368	\$15,970	\$49,338
Ghose, Dr. Kanad	Lockheed Martin Corporation	Supplier Development Efforts for the DARPA SSITH Program Phases 1-3	60	\$322,102	\$173,509	\$495,610
Ghose, Dr. Kanad	LightSpin Technologies Incorporated	SiPM Array detector for 50 ps CTR	50	\$1,555	\$871	\$2,426
Gopalan, Dr. Kartik	National Science Foundation	CSR:Small: Multi-hypervisor Virtual Machines-Enabling an Ecosystem of Hypervisors in the Cloud	100	\$19,900	\$10,945	\$30,845



<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Gopalan, Dr. Kartik	ITRI International Incorporated	Lightweight Hypervisor-Level Mechanisms for Guest Security and Reliability	100	\$9,718	\$5,539	\$15,258
Gopalan, Dr. Kartik	ITRI International Incorporated	Improving Performance and Live Migration for Bare-metal Clouds	100	\$18,746	\$9,612	\$28,358
Govindaraju, Dr. Madhusudhan	IBM Corporation	IBM Faculty Award for Madhusudhan Govindaraju	100	\$1,136	\$0	\$1,136
Govindaraju, Dr. Madhusudhan	National Science Foundation	S12-SSE: Expanding the Scope of Materials Modeling with Electron Phonon Wannier (EPW) Software	100	\$21,435	\$6,518	\$27,953
Kang, Dr. Kyoung-Don	National Science Foundation	CSR: Small: Timely Power-Aware Data Managment in Embedded Systems	100	\$59,179	\$32,549	\$91,728
Liu, Dr. Yao	National Science Foundation	CSR: Small: A Unified Approach Toward User-specific Improvements of Quality of Experience for Video Streaming	100	\$73,337	\$38,217	\$111,554
Liu, Dr. Yao	National Science Foundation	CAREER: System Research to Enable Practical Immersive Streaming : From 360-Degree Towards Volumetric Video Delivery	100	\$10,993	\$6,266	\$17,258
Liu, Dr. Yu David	National Science Foundation	SHF: Small: Lazy Data Structures for Data-Intensive Applications	100	\$94,542	\$49,057	\$143,599
Liu, Dr. Yu David	National Science Foundation	SHF: Small: Lazy Data Structures for Data-Intensive Applications	100	\$37,732	\$21,507	\$59,239
Liu, Dr. Yu David	National Science Foundation	CRI: CI-New: Collaborative Research: Extensible, Software Enabled Unmanned Aerial Vehicles	100	\$114,936	\$52,230	\$167,166
Liu, Dr. Yu David	National Science Foundation	CNS Core: Small: Language Runtime Support for Energy- Aware Applications	100	\$44,655	\$24,087	\$68,743

<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 &amp; A Expended</i></u>	<u><i>Total Expended</i></u>
Liu, Dr. Yu David	National Science Foundation	SHF: Small Green Parallel Language Systems	100	\$244	\$134	\$379
Lu, Mr. Hui	Griffiss Institute	Enabling a Secure Embedded Cloud Infrastructure	100	\$4,561	\$2,600	\$7,160
Meng, Dr. Weiyi	National Science Foundation	BIGDATA: Collaborative Research: F: Streaming Architecture for Continuous Entity Linking in Social Media	100	\$21,725	\$11,419	\$33,144
Ponomarev, Mr. Dmitry V	National Science Foundation	TWC:Small:Side Channels Through Lower-Level Caches: Attacks, Defenses and Security Metrics	100	\$6,136	\$3,374	\$9,510
Ponomarev, Mr. Dmitry V	National Science Foundation	TWC:Small:Side Channels Through Lower-Level Caches: Attacks, Defenses and Security Metrics	100	\$2,690	\$0	\$2,690
Ponomarev, Mr. Dmitry V	Regents of the University of California Riverside	Parallel Discrete Event Simulation on Emerging High-performance Multicore Clusters - US Air Force Award FA9550-15-1-0384	100	\$19,546	\$10,750	\$30,297
Ponomarev, Mr. Dmitry V	National Science Foundation	TWC: Small: Collaborative: Practical Hardware-Assisted Always-On Malware Detection	50	\$24,262	\$13,344	\$37,607
Ponomarev, Mr. Dmitry V	Qatar University	Architectural Approaches for Protecting Against Compromised System Software	100	\$25,586	\$5,117	\$30,703
Prakash, Dr. Aravind	National Science Foundation	CRII: SaTC: Robust and Platform Independent Recovery of Design Features from C++ Binaries	100	\$11,775	\$6,476	\$18,251
Prakash, Dr. Aravind	US Navy Office of Naval Research	ALBER: A Backward-Compatible Late-Stage Debloating Platform for Mobile and Desktop Environments	100	\$111,144	\$62,254	\$173,398
Prakash, Dr. Aravind	Lockheed Martin Corporation	Supplier Development Efforts for the DARPA SSITH Program Phases 1-3	30	\$161,051	\$86,754	\$247,805

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Sha, Mr. Mo	National Science Foundation	CRII: NeTS: Self-Adaption in Industrial Wireless Sensor-Actuator Networks	100	\$53,827	\$29,065	\$82,892
Shin, Dr. Seunghee	Research and Business Foundation of Korea University	Research on CPU Vulnerability Detection and Validation	100	\$70,799	\$12,034	\$82,833
Wang, Dr. Yan	National Science Foundation	CRII: NeTS: Ubiquitous Sensing based Location-aware Driving Safety System	100	\$1,592	\$876	\$2,468
Yan, Dr. Guanhua	National Science Foundation	TWC: Small: A Moving Target Approach to Enhancing Machine Learning-Based Malware Defense	100	\$15,834	\$8,328	\$24,162
Yan, Dr. Guanhua	University of Illinois Urbana Champaign	LEFT: an LTE Oriented Emulation Instrumented Fuzzing Testbed	100	\$14,331	\$8,168	\$22,499
Yan, Dr. Guanhua	National Science Foundation	CICI: RSARC: Infrastructure support for securing large-scale scientific workflows	35	\$85,578	\$9,173	\$94,751
Yan, Dr. Guanhua	University of Illinois Urbana Champaign	National Critical Infrastructure Resilience Center of Excellence	100	\$74,735	\$40,952	\$115,687
Yang, Dr. Ping	National Science Foundation	CICI: RSARC: Infrastructure support for securing large-scale scientific workflows	65	\$158,931	\$17,035	\$175,967
Yin, Dr. Lijun	National Science Foundation	CI-SUSTAIN: Collaborative Research: Extending a Large Multimodal Corpus of Spontaneous Behavior for Automated Emotion Analysis	100	\$62,429	\$25,852	\$88,282
Yin, Dr. Lijun	National Science Foundation	CI-SUSTAIN: Collaborative Research: Extending a Large Multimodal Corpus of Spontaneous Behavior for Automated Emotion Analysis	100	\$3,000	\$0	\$3,000
Yu, Dr. Lei	National Science Foundation	TWC: Small: Collaborative: Practical Hardware-Assisted Always-On Malware Detection	50	\$24,262	\$13,344	\$37,607

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Zhang, Dr. Shiqi	Ford Motor Company	Ford RIC Unrestricted Support	100	\$2,264	\$340	\$2,604
Zhang, Dr. Shiqi	National Science Foundation	NRI: FND: Knowledge-based Robot Sequential Decision Making under Uncertainty	100	\$1,231	\$0	\$1,231
Zhang, Dr. Shiqi	National Science Foundation	NRI: FND: Knowledge-based Robot Sequential Decision Making under Uncertainty	100	\$22,533	\$12,295	\$34,828
Zhang, Dr. Yifan	National Science Foundation	CRII: CSR NeTS: Enabling Secure and Trusted Device I/Os on Smartphones	100	\$12,186	\$6,702	\$18,889
Zhang, Dr. Yifan	Lockheed Martin Corporation	Supplier Development Efforts for the DARPA SSITH Program Phases 1-3	10	\$53,684	\$28,918	\$82,602
Zhang, Dr. Yifan	National Science Foundation	NSF Student Travel Grant for 2019 ACM/IEEE Symposium on Edge Computing (ACM/IEEE SEC)	100	\$19,217	\$0	\$19,217

**Department Total: \$2,948,218**

**020 Economics**

Hanes, Dr. Christopher	National Science Foundation	Doctoral Dissertation Research in Economics: The Effects of Micro-Finance Access on Economic and Social Outcomes of Low Income Women	50	\$864	\$225	\$1,088
Nikolov, Mr. Plamen	National Science Foundation	Doctoral Dissertation Research in Economics: The Effects of Micro-Finance Access on Economic and Social Outcomes of Low Income Women	50	\$864	\$225	\$1,088
Yang, Dr. Zili	Yale University	DICE/RICE Modeling Works for Yale Climate Change Research Program (YCCPR)	100	\$32,369	\$3,237	\$35,606

**Department Total: \$37,783**

**020 Electrical and Computer Engineering**

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Akyol, Dr. Emrah	National Science Foundation	CIF: Small: Strategic Communication: Concepts, Methods, and Applications	100	\$6,895	\$3,930	\$10,826
Chen, Dr. Yu	Griffiss Institute	Real-Time Detecting Visual Layer Attacks on Video Surveillance Systems Using ENF Signals	100	\$33,061	\$15,621	\$48,682
Choi, Dr. Seokheun	US Navy Office of Naval Research	Supercapacitive Micro-Bio-Photovoltaics for Sustainable Wireless Sensor Networks	100	\$104,164	\$57,178	\$161,343
Choi, Dr. Seokheun	National Science Foundation	Power-On-Skin: Energy Generation from Sweat-Eating Bacteria for Self-Powered Electronic Skins	60	\$6,542	\$3,729	\$10,272
Choi, Dr. Seokheun	National Science Foundation	Unlocking the Promise of Bacterial Electrogenicity	100	\$71,522	\$39,121	\$110,642
Choi, Dr. Seokheun	National Science Foundation	BREAD PHENO: Development and Field Testing of Paper-based Biosensors to Increase Productivity of Smallholder Agriculture in Developing Countries	100	\$96	\$53	\$148
Das, Dr. Pritam	Purdue University	CHIRP: Higher Voltage Package Power Delivery and Power Management Systems for High-End SiPs (Proposal Number W32609)	50	\$14,006	\$7,983	\$21,989
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	\$45,345	\$25,407	\$70,752
Dhakal, Dr. Tara Prasad	National Science Foundation	CAREER: Toward Twenty Year Lifetime: Hermetic Sealing for Perovskite Solar Cells	100	\$56,680	\$29,011	\$85,690
Dhakal, Dr. Tara Prasad	Flex Tech Alliance	Improved ECG Monitor with Capacitive Electrodes	30	\$33,368	\$15,970	\$49,338
Dhakal, Dr. Tara Prasad	Empire State Development Corp	Match to Improved ECG Monitor with Capacitive Electrodes	30	\$34,450	\$15,927	\$50,377

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
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	\$88,000	\$0	\$88,000
Dhakal, Dr. Tara Prasad	GVD Corporation	Phase 1 SBIR: Reduced Enviromental Controls in Perovskite Solar Cell Manfactoring Enabled by Vacuum-Deposited Gas Barrier Coatings SBIR Award DE-SC0019884	100	\$14,461	\$7,969	\$22,430
Fridrich, Dr. Jessica J.	US Air Force Research Laboratory	Mathematical Foundations of Steganalysis	100	\$0	\$0	\$0
Fridrich, Dr. Jessica J.	National Science Foundation	TWC: Medium: Steganography in Empirical Sources Using Acquisition Oracle	100	\$84,341	\$45,328	\$129,670
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	\$116,327	\$62,661	\$178,988
Goljan, Dr. Miroslav	US Air Force Research Laboratory	New Generation of Image Processing History and Manipulation Detection Techniques with Vectorized Context-Aware Descriptors	50	\$116,327	\$62,661	\$178,988
Hu, Dr. Miao	TetraMem Incorporated	In-Memory Computing Accelerator Study and Its Emulator Based on FPGA	100	\$12,000	\$0	\$12,000
Hu, Dr. Miao	TetraMem Incorporated	In-Memory Computing Accelerator Study and Its Emulator Based on FPGA	100	\$38,515	\$21,953	\$60,468
Hu, Dr. Miao	Huawei Technologies Company Limited	Deep Learning Applications on ReRam- Crossbar	100	\$2,076	\$1,163	\$3,239
Jin, Dr. Zhanpeng	Cirrus Enterprises LLC	Mobile-based Smart Service Platform for Personalized Education	100	(\$7,250)	(\$3,987)	(\$11,237)
Klotzkin, Dr. David	National Science Foundation	Scholarships and Nanofabrication Experience: Successful Transitions from Community College to Graduate School	25	\$13,625	\$0	\$13,625

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Klotzkin, Dr. David	National Science Foundation	Scholarships and Nanofabrication Experience: Successful Transitions from Community College to Graduate School	25	\$5,638	\$1,612	\$7,250
Klotzkin, Dr. David	Source Photonics Incorporated	Design of Non-Uniform Gratings for High-Speed Directly Modulated Devices for Optimum Side Mode Suppression Yield Over All Currents and Reduced Spatial Hold Burning	100	\$4,200	\$2,394	\$6,594
Klotzkin, Dr. David	Source Photonics Incorporated	Comprehensive Optimization of High-Speed Directly Modulated 25Gb/s Devices	100	\$1,624	\$926	\$2,550
Nikulin, Mr. Vladimir V	US Air Force Research Laboratory	Exploitability of Free-Space Optical Communication Links and Verification of Hyper-Entanglement After Propagation Through the Receiver Components	100	\$28,617	\$15,739	\$44,356
Summerville, Dr. Douglas H	National Science Foundation	Scholarship Program for Master's Degree Seeking Students in Engineering	33	\$640	\$352	\$992
Summerville, Dr. Douglas H	Assured Information Security Incorporated	Safegaurds Against Hidden Effects and Anomalous Trojans in Hardware Agreement Number HR0011-20-9-0006	100	\$9,631	\$5,490	\$15,120
Summerville, Dr. Douglas H	National Science Foundation	Scholarship Program for Master's Degree Seeking Students in Engineering	33	\$23,729	\$0	\$23,729
Summerville, Dr. Douglas H	Lockheed Martin Corporation	Assured and Trusted Microelectroics Solutions-FPGA Assurance- Tamper Detection- Chameleon Circuit	100	\$191,020	\$88,195	\$279,215
Wu, Dr. N Eva	NYS Energy Research and Development Authority	Development of a Low Cost Active DER System-Agreement 118225	33	\$22,197	\$12,652	\$34,849
Zahorian, Mr. Stephen A.	National Science Foundation	Scholarship Program for Master's Degree Seeking Students in Engineering	34	\$24,448	\$0	\$24,448
Zahorian, Mr. Stephen A.	National Science Foundation	Scholarship Program for Master's Degree Seeking Students in Engineering	34	\$660	\$363	\$1,022

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Zhang, Dr. Ziang	Multiple Sponsors	Southern Tier Technology Symposium	100	\$6,069	\$789	\$6,858
Zhang, Dr. Ziang	Switched Source LLC	Balancing Phases in Medium Voltage Systems	100	\$28,606	\$15,208	\$43,814
Zhang, Dr. Ziang	NYS Energy Research and Development Authority	Development of a Low Cost Active DER System-Agreement 118225	34	\$22,869	\$13,036	\$35,905
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	\$68,017	\$38,111	\$106,128
Zhou, Dr. Ning	NYS Energy Research and Development Authority	Development of a Low Cost Active DER System-Agreement 118225	33	\$22,197	\$12,652	\$34,849
Zhou, Dr. Ning	Pacific Northwest National Laboratory	Algorithm Development for Hybrid State Estimation - FY18 Work Performed at Binghamton University, Binghamton NY United States	100	\$31,880	\$16,187	\$48,067
Zhou, Dr. Ning	National Science Foundation	CAREER: Integrated Dynamic State Estimation for Monitoring Power Systems Under High Uncertainty and Variation	100	\$75,507	\$36,536	\$112,043
Zhou, Dr. Ning	Pacific Northwest National Laboratory	Correlation Analysis of Wide Area Oscillations	100	\$27,609	\$12,317	\$39,927

**Department Total: \$2,163,946**

**020 Entrepreneurship and Innovation Partnership**

Iankova- TERMED, Ms. Elena	Multiple Sponsors	Export NY Coordinator and Continued CIBA Activities	100	\$453	\$68	\$521
McKeage, Mr. Louis G	Economic Development Administration	Trade Adjustment Assistance Center Serving NY, NJ, and the Commonwealth of Puerto Rico	100	\$226,859	\$0	\$226,859



<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
McKeage, Mr. Louis G	Economic Development Administration	Trade Adjustment Assistance Center Serving New York, New Jersey and the Commonwealth of Puerto Rico	100	\$176,579	\$33,903	\$210,483
McKeage, Mr. Louis G	Economic Development Administration	Trade Adjustment Assistance Center Serving New York, New Jersey and the Commonwealth of Puerto Rico	100	\$192,921	\$0	\$192,921
McKeage, Mr. Louis G	Multiple Sponsors	TAAC FY 2017 Income Account	100	\$3,303	\$0	\$3,303
McKeage, Mr. Louis G	Economic Development Administration	Trade Adjustment Assistance Center Serving NY, NJ, and the Commonwealth of Puerto Rico	100	\$265,507	\$50,977	\$316,485
McLeod, Dr. Kenneth J	VentureWell	Faculty Grant - Developing an Entrepreneurial Mindset in First Year Women Students	100	\$4,173	\$0	\$4,173
Petrova, Ms. Olga	National Science Foundation	I-Corps: Replenishing the Skin Microbiome	50	\$2,920	\$324	\$3,245
Stromhaug, Mr. Per	National Science Foundation	Type 1: Innovation Binghamton NSF I-Corps Site	100	\$14,598	\$0	\$14,598
Stromhaug, Mr. Per	National Science Foundation	Type 1: Innovation Binghamton NSF I-Corps Site	100	\$29,531	\$16,833	\$46,364
Stromhaug, Mr. Per	NYS Energy Research and Development Authority	Southern Tier Clean Energy Incubator-NYSERDA 110470	100	\$186,477	\$48,484	\$234,961
Stromhaug, Mr. Per	NYS Energy Research and Development Authority	Southern Tier Clean Energy Incubator-NYSERDA 110470	100	\$28,881	\$7,509	\$36,390
Stromhaug, Mr. Per	NYS Department of Economic Development	Binghamton University's Business Incubator Program	100	\$98,909	\$0	\$98,909

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Stromhaug, Mr. Per	NYS Department of Economic Development	Binghamton University's Business Incubator Program	100	\$27,733	\$0	\$27,733
Stromhaug, Mr. Per	National Science Foundation	I-Corps: Replenishing the Skin Microbiome	50	\$2,920	\$324	\$3,245
Stromhaug, Mr. Per	Southern Tier High Technology Incubator Incorporated	Binghamton Incubator Program	100	\$1,250	\$0	\$1,250
Stromhaug, Mr. Per	Economic Development Administration	EDA i6 Challenge Binghamton XCEEDs	100	\$108,007	\$19,390	\$127,397

**Department Total: \$1,548,834**

**020 Geography**

Holmes, Ms. Louisa	Regents of the University of California	Impact of new policies on young adult tobacco and marijuana use	100	\$5,352	\$3,050	\$8,402
Holmes, Ms. Louisa	Regents of the University of California	Impact of new policies on young adult tobacco and marijuana use 2019-2020	100	\$23,839	\$13,588	\$37,427

**Department Total: \$45,829**

**020 Geological Sci & Environmental Studies**

Graney, Dr. Joseph R	National Science Foundation	GP-EXTRA: Freshman Research in Biogeochemistry for Engagement and Retention	20	\$6,532	\$3,266	\$9,798
Jenkins, Dr. David M	National Science Foundation	Stability and Thermochemistry of some Chlorine-Bearing Calcium Amphiboles	100	\$45,925	\$25,640	\$71,565
Kulp, Dr. Thomas	National Science Foundation	Collaborative Research: Antimony stable isotope systematics during bacterial and abiotic redox cycling	100	\$4,318	\$2,418	\$6,737

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Kulp, Dr. Thomas	National Science Foundation	GP-EXTRA: Freshman Research in Biogeochemistry for Engagement and Retention	20	\$6,532	\$3,266	\$9,798
Lowenstein, Dr. Tim K	National Science Foundation	GP-EXTRA: Freshman Research in Biogeochemistry for Engagement and Retention	20	\$6,532	\$3,266	\$9,798
Lowenstein, Dr. Tim K	National Science Foundation	Collaborative Research: Anatomy of a Greenhouse World: The Early Eocene of the Green River Basin, Wyoming	100	\$25,136	\$5,665	\$30,800
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	\$19,353	\$11,031	\$30,384
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	\$5,941	\$891	\$6,832
Nikulin, Mr. Alex	American Chemical Society	Unconventional Seismic Imaging in Unconventional Reservoir Characterization : A Passive-Source Seismic Investigation of the Marcellus and Utica Shale Plays	100	\$31,907	\$0	\$31,907
Patterson, Dr. Molly	Columbia University	US Science Support Program Office associated with the International Ocean Discovery Program (USSSP-IODP)	100	\$4,609	\$2,627	\$7,237
Pietras, Dr. Jeffrey T	Foundation of SUNY at Binghamton	Start Up Support Provided by Private Donor	100	\$2,561	\$0	\$2,561
Pietras, Dr. Jeffrey T	American Chemical Society	Rhenium-Osmium Isotope Systematics: Application of Osmium Isotope Stratigraphy and Geochronology in Lacustrine Organic-rich Mudstones	100	\$16,183	\$0	\$16,183

**Department Total: \$233,600**

**020 Graduate School Dean**

Lam, Dr. Sarah	Council of Graduate Schools	Understanding PhD Career Pathways - STEM	33	\$252	\$143	\$395
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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 &amp; A Expended</u>	<u>Total Expended</u>
Lam, Dr. Sarah	Council of Graduate Schools	Understanding PhD Career Pathways - HUMANITIES	33	\$825	\$0	\$825
Mahler, Dr. Gretchen J	National Science Foundation	Graduate Research Fellowship Program	100	\$47,932	\$0	\$47,932
Mahler, Dr. Gretchen J	National Science Foundation	Graduate Research Fellowship Program	100	\$36,215	\$0	\$36,215
Strehle, Dr. Susan	Foundation of SUNY at Binghamton	Graduate Assistant Salaries/Fellowship Support Funded Through BU Foundation Accounts	100	\$117,494	\$0	\$117,494
Strehle, Dr. Susan	Council of Graduate Schools	Understanding PhD Career Pathways - STEM	33	\$252	\$143	\$395
Strehle, Dr. Susan	Council of Graduate Schools	Understanding PhD Career Pathways - HUMANITIES	33	\$825	\$0	\$825
Tarhule, Dr. Andover	Council of Graduate Schools	Understanding PhD Career Pathways - STEM	34	\$260	\$147	\$407
Tarhule, Dr. Andover	Council of Graduate Schools	Understanding PhD Career Pathways - HUMANITIES	34	\$850	\$0	\$850

**Department Total: \$205,337**

**020 Health and Wellness Studies**

Begdache, Ms. Lina A	Nano-Bio Materials Consortium	Epifluidics for Stress Monitoring	25	\$188	\$107	\$294
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**Department Total: \$294**

**020 Health Outcomes and Administrative Sciences**

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Dang, Dr. Utkarsh J	Foundation to Eradicate Duchenne	Defining Serum Biomarkers of Early-Age Severity for DMD - Statistical Research Using Vamorolone 002 Data	100	\$24,917	\$2,492	\$27,409
Dang, Dr. Utkarsh J	Foundation to Eradicate Duchenne	Defining prognostic models of future clinical trajectories in Duchenne Muscular Dystrophy	100	\$11,587	\$1,159	\$12,745
<b>Department Total:</b>				<b>\$40,154</b>		

### **020 History**

Wheeler, Dr. Leigh Ann	National Endowment for the Humanities	A Biography of American Author and Civil Rights Activist Anne Moody (1940-2015)	100	\$57,406	\$0	\$57,406
<b>Department Total:</b>				<b>\$57,406</b>		

### **020 Library Administration**

Galbraith, Dr. James	NYS Education Department	Library Collections 2019-2020	100	\$21,991	\$0	\$21,991
Parks, Ms. Heather	NYS Education Department	2019-2020 Conservation and Preservation Program Grant	100	\$61,955	\$0	\$61,955
Parks, Ms. Heather	NYS Education Department	2018-2019 Conservation and Preservation Program Grant	100	(\$74)	\$0	(\$74)
Shephard, Mr. Edward	NYS Education Department	Library Collections 2018-2019	100	\$185	\$0	\$185
<b>Department Total:</b>				<b>\$84,057</b>		

### **020 Mathematical Sciences**

Borisov, Dr. Alexander	National Science Foundation	Binghamton University's Graduate Conference in Algebra and Topology (BUGCAT) 2019, 2020, 2021	100	\$8,930	\$666	\$9,596
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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 &amp; A Expended</u>	<u>Total Expended</u>
Chen, Dr. Mei-Hsiu	National Science Foundation	Mechanobiology of Myofibroblast Behavior in Health and Disease	25	\$16,910	\$9,578	\$26,488
Chen, Dr. Mei-Hsiu	National Science Foundation	Mechanobiology of Myofibroblast Behavior in Health and Disease	25	\$1,000	\$0	\$1,000
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	\$7,370	\$4,201	\$11,571
Geoghegan, Dr. Ross	Simons Foundation	New advances in quickest change-point detection with applications	100	\$1,000	\$162	\$1,162
Geoghegan, Dr. Ross	Simons Foundation	Research on Random Matrices and its Applications	100	\$232	\$46	\$279
Ontaneda, Dr. Pedro	National Science Foundation	Spaces with Negative and Nonpositive Curvature	100	\$31,764	\$17,470	\$49,234
Ontaneda, Dr. Pedro	National Science Foundation	Challenges in Negative and Nonpositive Curvature	100	\$16,640	\$9,485	\$26,124
Polunchenko, Dr. Aleksey S	Simons Foundation	New advances in quickest change-point detection with applications	100	\$2,609	\$436	\$3,044

**Department Total: \$128,499**

**020 Mechanical Engineering**

Chiarot, Dr. Paul	National Institutes of Health	Perivascular Transport of Solutes from the Brain	34	\$25,012	\$7,071	\$32,083
Chiarot, Dr. Paul	Purdue University	Chiarot 2020 SRC CHIRP: Conformal Polymeric Thin Films Manufacturing Using Electrospray Printing	100	\$2,059	\$1,174	\$3,233

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Chiarot, Dr. Paul	Edgewell Personal Care	Electrospray Deposition of PTFE Coatings - Phase 3	100	\$168	\$96	\$264
Chiarot, Dr. Paul	American Chemical Society	Electrohydrodynamic Atomization of Fuels Using Charge-Injection for Efficient Flameless Catalytic Combustion at Small Scale	100	\$5,924	\$0	\$5,924
Chiarot, Dr. Paul	National Science Foundation	Inkjet-Electrospray Hybrid Printing: Understanding the Processing-Structure Relationship	33	\$5,244	\$2,884	\$8,128
Chiarot, Dr. Paul	National Science Foundation	Capillary-Assisted Printing of Structured Colloidal Monolayers	33	\$300	\$171	\$471
Chiarot, Dr. Paul	National Science Foundation	CAREER: Additive Manufacturing using Electrospray Printing of Nanoparticle Inks	100	\$60,990	\$32,756	\$93,746
Cho, Dr. Junghyun	Honeywell Federal Manufacturing & Technologies LLC	PDRD Conformal Coating Tin Whiskers	100	\$31,980	\$18,229	\$50,209
Cho, Dr. Junghyun	Universal Instruments Corporation	Electronic Assembly Solder Alloy Development	100	\$27,704	\$6,702	\$34,406
Cho, Dr. Junghyun	Honeywell Federal Manufacturing & Technologies LLC	PDRD-Conformal Coating Tin Whiskers (YR 2)	100	\$21,660	\$11,797	\$33,457
Huang, Dr. Pong-Yu	National Institutes of Health	Perivascular Transport of Solutes from the Brain	33	\$24,277	\$6,863	\$31,139
Huang, Dr. Pong-Yu	National Science Foundation	Mechanobiology of Myofibroblast Behavior in Health and Disease	25	\$16,910	\$9,578	\$26,488
Huang, Dr. Pong-Yu	National Science Foundation	Mechanobiology of Myofibroblast Behavior in Health and Disease	25	\$1,000	\$0	\$1,000

<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 &amp; A Expended</i></u>	<u><i>Total Expended</i></u>
Huang, Dr. Pong-Yu	National Science Foundation	Capillary-Assisted Printing of Structured Colloidal Monolayers	33	\$300	\$171	\$471
Jin, Dr. Congrui	University of Science and Technology Beijing	High Temperature Creep Failure of Additively Manufactured Metals	100	\$2,628	\$79	\$2,707
Jin, Dr. Congrui	Battelle Energy Alliance LLC	Mechanics in Hydrogen Production SOW-15976	100	\$33,872	\$18,758	\$52,631
Ke, Dr. Changhong	National Science Foundation	Collaborative Research:Experimental and Computational Nanomechanics of the Load Transfer Mechanisms at the Graphene Polymer Interface	100	\$18,608	\$10,234	\$28,843
Ke, Dr. Changhong	National Science Foundation	PFI-TTT: Enhanced Electronic Cooling via 3D Printing from Additive Laser Fabrication of Heat Removal Devices	25	\$1,828	\$1,042	\$2,870
Ke, Dr. Changhong	National Science Foundation	Collaborative Research:Experimental and Computational Nanomechanics of the Load Transfer Mechanisms at the Graphene Polymer Interface	100	\$8,000	\$0	\$8,000
Ke, Dr. Changhong	Cornell University	NASA/New York Space Grant Consortium National Space Grant College and Fellowship Program 2015-2020	100	\$10,000	\$0	\$10,000
Ke, Dr. Changhong	National Inst on Deafness & Other Comm Disorders	Capacitive Pressure/ Velocity Probe for Acoustic Measurements in the Human Ear Canal	33	\$70,709	\$38,670	\$109,379
Miles, Dr. Ronald N	National Science Foundation	A New Approach to Capacitive Sensing: Repulsive Sensors	50	\$7,048	\$3,947	\$10,995
Miles, Dr. Ronald N	National Science Foundation	A New Approach to Capacitive Sensing: Repulsive Sensors	50	\$21,825	\$5,613	\$27,438
Miles, Dr. Ronald N	National Inst on Deafness & Other Comm Disorders	Capacitive Pressure/ Velocity Probe for Acoustic Measurements in the Human Ear Canal	67	\$143,561	\$78,513	\$222,073



<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 &amp; A Expended</i></u>	<u><i>Total Expended</i></u>
Murray, Dr. Bruce T	National Science Foundation	Mechanobiology of Myofibroblast Behavior in Health and Disease	25	\$16,910	\$9,578	\$26,488
Murray, Dr. Bruce T	National Science Foundation	Mechanobiology of Myofibroblast Behavior in Health and Disease	25	\$1,000	\$0	\$1,000
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	\$86,528	\$48,456	\$134,983
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	\$15,417	\$8,788	\$24,204
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	\$2,695	\$0	\$2,695
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	\$9,395	\$5,355	\$14,751
Park, Dr. Seungbae	Corning Incorporated	Evaluation of TGV Thermo-Mechanical Behavior using Micro DIC Techniques	100	\$577	\$329	\$906
Pitarresi, Dr. James	National Science Foundation	Scholarship Program for Master's Degree Seeking Students in Engineering	33	\$640	\$352	\$992
Pitarresi, Dr. James	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$70,898	\$0	\$70,898
Pitarresi, Dr. James	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$49,628	\$14,241	\$63,869
Pitarresi, Dr. James	National Science Foundation	Scholarship Program for Master's Degree Seeking Students in Engineering	33	\$23,729	\$0	\$23,729

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Sammakia, Dr. Bahgat G	Ephesus Technologies LLC	Graphene Project	100	(\$4,450)	(\$5,550)	(\$10,000)
Sammakia, Dr. Bahgat G	Purdue University	CHIRP: Exploration of Holistic Scaleout Designs Within Heterogeneous Packages for HPC/Server Processors (Proposal Number	50	\$15,034	\$8,569	\$23,603
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	\$13,669	\$7,792	\$21,461
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	\$9,395	\$5,355	\$14,751
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	\$21,797	\$12,424	\$34,222
Sammakia, Dr. Bahgat G	National Science Foundation	PFI-TTT: Enhanced Electronic Cooling via 3D Printing from Additive Laser Fabrication of Heat Removal Devices	25	\$1,828	\$1,042	\$2,870
Schiffres, Dr. Scott	National Science Foundation	I-Corps: Additive Laser Metal Deposition onto Silicon for Enhanced Electronics Cooling	100	\$29,838	\$3,315	\$33,153
Schiffres, Dr. Scott	National Science Foundation	PFI-TTT: Enhanced Electronic Cooling via 3D Printing from Additive Laser Fabrication of Heat Removal Devices	50	\$3,656	\$2,084	\$5,740
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	\$18,790	\$10,711	\$29,501
Schiffres, Dr. Scott	National Science Foundation	CAREER: Intermetallic Interfacial Thermal Transport for Advanced Electronics Manufacturing	100	\$5,778	\$0	\$5,778

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Schiffres, Dr. Scott	Cardinal Health 200 Limited Liability Company	Materials Testing Agreement - Screening of Spunbond-Meltdown-Spunbond Polymers for Filtration	100	\$2,522	\$630	\$3,152
Schiffres, Dr. Scott	National Science Foundation	CAREER: Intermetallic Interfacial Thermal Transport for Advanced Electronics Manufacturing	100	\$59,928	\$34,159	\$94,086
Schiffres, Dr. Scott	EthosGen LLC	Next Generation HVAC Adsorption Compressorless HVAC Using Advanced Materials	100	\$22,094	\$12,593	\$34,687
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	\$13,267	\$7,562	\$20,830
Singler, Dr. Timothy J	National Science Foundation	Inkjet-Electrospray Hybrid Printing:Understanding the Processing-Structure Relationship	33	\$5,244	\$2,884	\$8,128
Singler, Dr. Timothy J	Multiple Sponsors	Unrestricted Research Support - Kurt lesker	100	\$1,092	\$218	\$1,310
Towfighian, Dr. Shahrzad	National Science Foundation	A New Approach to Capacitive Sensing: Repulsive Sensors	50	\$21,825	\$5,613	\$27,438
Towfighian, Dr. Shahrzad	National Inst of Arthritis Musculoskeletal & Skin	An implantable self-powered load sensor for total knee replacement health monitoring	100	\$49,253	\$21,613	\$70,866
Towfighian, Dr. Shahrzad	National Science Foundation	A New Approach to Capacitive Sensing: Repulsive Sensors	50	\$7,048	\$3,947	\$10,995
Towfighian, Dr. Shahrzad	National Science Foundation	MEMS High Voltage Triboelectric Levitation: A Generactuator	100	\$39,387	\$18,213	\$57,600
Wang, Dr. Hao	Charge CCCV	Unrestricted Research Support	100	\$1,199	\$180	\$1,379

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Yong, Dr. Xin Frank	National Science Foundation	Inkjet-Electrospray Hybrid Printing:Understanding the Processing-Structure Relationship	34	\$5,403	\$2,971	\$8,374
Yong, Dr. Xin Frank	American Chemical Society	Mesoscale Modeling of Stimuli-Responsive Composite Colloids at Oil-Water Interfaces	100	\$26,106	\$0	\$26,106
Yong, Dr. Xin Frank	National Science Foundation	Capillary-Assisted Printing of Structured Colloidal Monolayers	34	\$309	\$176	\$485
Zhou, Dr. Guangwen	US Department of Energy	Northeast Center for Chemical Energy Storage(NECCES)	5	\$54,691	\$10,669	\$65,360
Zhou, Dr. Guangwen	National Science Foundation	MRI: Acquisition of a Hard X-Ray PhotoElectron Spectroscop (HAXPES) for the Institute for Materials Research (IMR) at Binghamton University (BU)	10	\$88,000	\$0	\$88,000
Zhou, Dr. Guangwen	National Science Foundation	Collaborative Research: Coordinated In-Situ Dynamic Experiments and Atomistic Modeling of Surface Segregation in Alloys	100	\$30,807	\$16,462	\$47,269
Zhou, Dr. Guangwen	Pacific Northwest National Laboratory	Materials Synthesis and Simulations Across Scales (MS3), Richland, WA, USA	100	\$32,178	\$7,866	\$40,044
Zhou, Dr. Guangwen	US Department of Energy	In Situ Visualization and Theoretical Modeling of Early Stages of Oxidation of Metals and Alloys	100	\$96,981	\$50,910	\$147,891

**Department Total: \$2,075,551**

### **020 Pharmaceutical Sciences**

Beedle, Dr. Aaron	Muscular Dystrophy Association of America	Is MTOR inhibition a valid therapy for dystroglycan muscular dystrophy	100	\$71,544	\$7,154	\$78,698
Beedle, Dr. Aaron	University of Georgia	Structure and Function in Alpha-Dystroglycan Glycosylation 2R01GM111939 RR549-622/S001698 - -SUB001698	100	\$25,656	\$14,609	\$40,265

<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 &amp; A Expended</i></u>	<u><i>Total Expended</i></u>
Beedle, Dr. Aaron	ReveraGen Biopharma Incorporated	SBIR Phasel: Building an Evidentiary Case for Circulating GHBP as a Biomarker for Drug Associated Stunting of Growth	100	\$9,492	\$5,410	\$14,902
Brooks, Dr. Tracy	National Cancer Institute	Synthesis and Optimization of antibody: DNAi conjugates targeting the MYC G4	50	\$1,686	\$961	\$2,647
Edwards, Dr. Katie	Childrens Research Institute	Bridging pharmacodynamic biomarkers to clinical outcomes in pediatric inflammatory diseases - Year 2	100	\$1,802	\$1,027	\$2,828
Edwards, Dr. Katie	Childrens Research Institute	A Non-invasive Point-Of-Care Assay for Monitoring Titin Levels in the Urine of DMD Patients	100	\$17,089	\$9,741	\$26,830
Hathout, Dr. Yetrib	Childrens Research Institute	Bridging Pharmacodynamic Biomarkers to Clinical Outcomes in Pediatric Inflammatory Diseases	100	\$123,602	\$69,915	\$193,517
Hathout, Dr. Yetrib	Childrens Research Institute	Bridging Pharmacodynamic Biomarkers to Clinical Outcomes in Pediatric Inflammatory Diseases	100	\$13,146	\$7,493	\$20,639
Hathout, Dr. Yetrib	US Army Medical Research Acquisition Activity	Generating the Evidentiary Data Package for Dystrophin Biomarker Qualifications	100	\$59,436	\$33,643	\$93,079
Hathout, Dr. Yetrib	ReveraGen Biopharma Incorporated	A biomarker and patient-reported outcomes study in Becker muscular dystrophy patients	100	\$410	\$102	\$512
Hathout, Dr. Yetrib	US Army Medical Research Acquisition Activity	Clinical Utility of Serum Protein Biomarkers in Very Young Duchenne Muscular Dystrophy Boys	100	\$228,920	\$75,164	\$304,084
Nagaraju, Dr. Kanneboyina	DB Therapeutics Incorporated	Unrestricted Research: DB Therapeutics in the area of radiotherapeutic bandage	100	\$23,622	\$3,543	\$27,165
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	\$43,451	\$0	\$43,451

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Nagaraju, Dr. Kanneboyina	Foundation to Eradicate Duchenne	Immune response to dystrophin after Etiperson treatment in Duchenne Muscular Dystrophy Children	100	\$11,615	\$1,162	\$12,777
Nagaraju, Dr. Kanneboyina	Childrens Research Institute	Understanding the Mechanism and Role of Cell Membrane Repair in Miyoshi Myopathy- Year 3	100	\$11,012	\$6,277	\$17,288
Nagaraju, Dr. Kanneboyina	Myositis Association	Role of Innate Immune and Metabolic Pathways in Mediating Muscle Weakness in Myositis	100	\$50,126	\$0	\$50,126
Nagaraju, Dr. Kanneboyina	Parent Project for Muscular Dystrophy Research Inc	Effect of Immunomodulatory Treatments on Immune Response After Gene Correction in DMD	100	\$129,425	\$6,471	\$135,896
Nagaraju, Dr. Kanneboyina	National Institute of Allergy & Infectious Disease	Virus Induced Genetic Changes in the Pathogenesis of Autoimmune Myositis	100	\$3,950	\$764	\$4,714
Nagaraju, Dr. Kanneboyina	Myositis Association	Urine Biomarkers in Juvenile Dermatomyositis	100	\$23,077	\$0	\$23,077
Tumey, Mr. L Nathan	Millennium Pharmaceuticals Incorporated	The Identification of Lysosomal Selective Proteolytically Cleavable Linkers Takeda agreement # CW2510332	100	\$72,718	\$41,449	\$114,167
Tumey, Mr. L Nathan	National Institute of Allergy & Infectious Disease	Cell-specific blockage of TLR activation: A new strategy for addressing inflammatory disorders	100	\$33,000	\$18,810	\$51,810
Tumey, Mr. L Nathan	National Cancer Institute	Synthesis and Optimization of antibody: DNAi conjugates targeting the MYC G4	50	\$1,686	\$961	\$2,647

**Department Total: \$1,261,121**

**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	\$12,500	\$1,000	\$13,500
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**Department Total: \$13,500**

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
<b>020 Physics Applied Physics &amp; Astronomy</b>						
Aynajian, Dr. Pegor	National Science Foundation	CAREER: Visualizing Emergent Electronic States Near Quantum Phase Transitions	100	\$10,281	\$5,860	\$16,142
Aynajian, Dr. Pegor	National Science Foundation	CAREER: Visualizing Emergent Electronic States Near Quantum Phase Transitions	100	\$44,808	\$23,894	\$68,702
Cotts, Dr. Eric	National Science Foundation	Scholarships and Nanofabrication Experience: Successful Transitions from Community College to Graduate School	25	\$13,625	\$0	\$13,625
Cotts, Dr. Eric	National Science Foundation	Scholarships and Nanofabrication Experience: Successful Transitions from Community College to Graduate School	25	\$5,638	\$1,612	\$7,250
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	\$37,948	\$21,630	\$59,578
Cotts, Dr. Eric	Universal Instruments Corporation	Accelerated Thermal Testing (ATC) Reliability of SAC/SnBiAg Mixed Assembly Solder Joints- The Effect of Current Stressing	100	\$474	\$123	\$597
Cotts, Dr. Eric	Universal Instruments Corporation	The Reliability of Mixed Assemblies- SAC/SnBi	100	\$17,606	\$4,577	\$22,183
Kolmogorov, Dr. Alexey	National Science Foundation	Theory-Guided Discovery of Tin-Based Materials	100	\$52,042	\$28,578	\$80,621
Lawler, Dr. Michael	National Science Foundation	Collaborative Research: Integrating Physics and Generative Machine Learning Models for Inverse Materials Design	100	\$35,812	\$16,724	\$52,536
Lawler, Dr. Michael	National Science Foundation	Collaborative Research: Machine Learning Methods for Multi-Disciplinary Multi-Scale Problems	100	\$37,648	\$20,922	\$58,570

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Lee, Dr. Wei-Cheng	Georgia Institute of Technology	MURI - Cross-Disciplinary Electronic-Ionic Research Enabling Biologically Realistic Autonomous Learning (CEREBRAL)	100	\$61,366	\$33,837	\$95,203
Lee, Dr. Wei-Cheng	National Science Foundation	EAGER: Collaborative Research: Exploring Physics Guided Machine Learning for Accelerating Sensing and Physical Sciences	100	\$3,190	\$1,818	\$5,008
Levy, Dr. Stephen	National Science Foundation	CAREER: DNA Transport Through Carbon Nanotubes	100	\$47,736	\$25,737	\$73,473
Margine, Dr. Elena R	National Science Foundation	S12-SSE: Expanding the Scope of Materials Modeling with Electron Phonon Wannier (EPW) Software	100	\$36,294	\$19,590	\$55,884
Margine, Dr. Elena R	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$49,628	\$14,241	\$63,869
Margine, Dr. Elena R	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$70,898	\$0	\$70,898
Mativetsky, Dr. Jeffrey	National Science Foundation	Ambient Processing and Patterning of Graphene Oxide Across Multiple Length Scales	100	\$11,214	\$6,168	\$17,382
Mativetsky, Dr. Jeffrey	National Science Foundation	CAREER: Charge Photogeneration and Transport in Organic Semiconductor Nanowires	100	\$63,029	\$25,127	\$88,156
Mativetsky, Dr. Jeffrey	National Science Foundation	REU Site: Renewable Energy Generation and Storage	100	\$28,806	\$16,132	\$44,938
Mativetsky, Dr. Jeffrey	National Science Foundation	REU Site: Renewable Energy Generation and Storage	100	\$10,793	\$0	\$10,793
Mativetsky, Dr. Jeffrey	National Science Foundation	REU Site: Renewable Energy Generation and Storage	100	\$21,722	\$5,542	\$27,264



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Piper, Dr. Louis	National Science Foundation	MRI: Acquisition of a Hard X-Ray PhotoElectron Spectroscope (HAXPES) for the Institute for Materials Research (IMR) at Binghamton University (BU)	60	\$528,000	\$0	\$528,000
Piper, Dr. Louis	Georgia Institute of Technology	MURI17: Cross-disciplinary Electronic-ionic Research Enabling Biologically Realistic Autonomous Learning (CEREBRAL)	100	\$5,336	\$3,041	\$8,377
Piper, Dr. Louis	US Department of Energy	Northeast Center for Chemical Energy Storage(NECCES)	5.76	\$63,004	\$12,291	\$75,295
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	\$87,215	\$49,164	\$136,378
Piper, Dr. Louis	Georgia Institute of Technology	MURI - Cross-Disciplinary Electronic-Ionic Research Enabling Biologically Realistic Autonomous Learning (CEREBRAL)	100	\$212,598	\$118,527	\$331,125
Piper, Dr. Louis	Research Corporation for Science Advancement	Scialog Advanced Energy Storage Award	100	\$12,098	\$0	\$12,098
Piper, Dr. Louis	Research Corporation for Science Advancement	Scaling the sensitivity gap to probe interfaces of high voltage cathodes	100	\$39,672	\$3,967	\$43,639
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	\$94,481	\$36,651	\$131,132
Shim, Dr. Bonggu	National Science Foundation	Wavelength Scaling of Plasma and Spatio-Temporal Dynamics of Laser Filamentation in Solids	100	\$64,432	\$31,527	\$95,959
Smeu, Dr. Manuel	Sandia National Laboratories	Non-Equilibrium Greens Function Calculation of Grain Boundary Conductivity	100	\$25,648	\$14,351	\$39,999

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Yao, Ms. Lan	National Institute of General Medical Sciences	Rational Design of pH-Low Insertion Peptides for Cargo Delivery	30	\$29,024	\$16,544	\$45,568
<b>Department Total:</b>				<b>\$2,380,242</b>		
<b>020 Political Science</b>						
Clark, Dr. David	Leidos	Option 3 and 4- Mass Mobilization Data Project	100	\$9,087	\$5,089	\$14,176
Karakoc, Dr. Ekrem	University of Calgary	International Business in the Middle East and North Africa MENA: danger zones or the land of opportunity	100	\$13,445	\$0	\$13,445
Weintraub, Mr. Michael	National Science Foundation	Explaining Civilian Support for Political and Criminal Armed Groups	100	\$81,486	\$33,385	\$114,871
<b>Department Total:</b>				<b>\$142,491</b>		
<b>020 Psychology</b>						
Balderrama-Durbin, Dr. Christina	National Institute for Alcohol Abuse & Alcoholism	An Integrated Brief Alcohol and PTSD Intervention for Veterans in Primary Care	50	\$76,918	\$2,918	\$79,836
Balderrama-Durbin, Dr. Christina	Ithaca Pyschological Testing	Ithaca Psychological Testing	100	\$21,193	\$0	\$21,193
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	\$8,921	\$5,085	\$14,007
Bishop, Dr. Christopher	Michael J Fox Foundation	MJFF Emerging Targets Committee	100	\$4,126	\$413	\$4,539

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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	\$72,675	\$34,173	\$106,848
Bishop, Dr. Christopher	Howard Hughes Medical Institute	Howard Hughes Support - Freshman Research Immersion (FRI) Models	50	\$23,302	\$0	\$23,302
Bishop, Dr. Christopher	Melior Discovery Incorporated	Testing Agreement	100	\$4,694	\$2,582	\$7,276
Bishop, Dr. Christopher	American Parkinson Disease Association Inc	Targeting the Pedunculopontine Tegmental Nucleus to Optimize Treatment of Parkinson's Disease	100	\$13,826	\$0	\$13,826
Bishop, Dr. Christopher	Michigan State University	The Rat Pre-Formed Alpha-Synuclein Fibril Model of Parkinson's Disease -R33NS099416	100	\$57,019	\$32,501	\$89,520
Coles, Dr. Meredith	Multiple Sponsors	Income from Services of Binghamton Anxiety Clinic	100	\$3,128	\$469	\$3,597
Coles, Dr. Meredith	SiMmersion	Simulated Clinician Assessment for Cognitive Behavioral Therapy Skills R01MH112625	33.3	\$38,598	\$21,439	\$60,037
Deak, Dr. Terrence	National Institute for Alcohol Abuse & Alcoholism	Development and Neuroadaptations in Alcohol and Addiction	25	\$14,824	\$1,186	\$16,010
Deak, Dr. Terrence	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	75	\$26,649	\$15,190	\$41,839
Deak, Dr. Terrence	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center (Year 10)	100	\$3,890	\$0	\$3,890
Deak, Dr. Terrence	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center (Year 10)	100	\$29,170	\$16,044	\$45,214

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Deak, Dr. Terrence	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center (Year 10)	50	\$47,058	\$0	\$47,058
Deak, Dr. Terrence	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center (Year 10)	100	\$28,536	\$15,695	\$44,231
Deak, Dr. Terrence	National Institute for Alcohol Abuse & Alcoholism	Development and Neuroadaptations in Alcohol and Addiction	25	\$33,392	\$2,556	\$35,948
Deak, Dr. Terrence	National Institute on Aging	Neuroinflammation and Social Behavior Across the Lifespan (Years2-5)	90	\$53,515	\$27,372	\$80,887
Deak, Dr. Terrence	National Institute for Alcohol Abuse & Alcoholism	Long Lasting Effects of Adolescent Alcohol on Blood-Brain-Barrier Function	100	\$19,941	\$0	\$19,941
Deak, Dr. Terrence	National Institute for Alcohol Abuse & Alcoholism	Development and Neuroadaptations in Alcohol and Addiction	25	\$725	\$58	\$783
Deak, Dr. Terrence	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	75	\$108,711	\$61,764	\$170,475
Di Lorenzo, Dr. Patricia M	National Institute of General Medical Sciences	SUNY Upstate Bridges to the Baccalaureate Program	50	\$35,847	\$2,169	\$38,016
Di Lorenzo, Dr. Patricia M	National Institute of General Medical Sciences	SUNY Upstate Bridges to the Baccalaureate Program	50	\$4,200	\$336	\$4,536
Di Lorenzo, Dr. Patricia M	University of Georgia	Vagal Influence on Brainstem Plasticity and Nueral Coding of Taste	100	\$49,932	\$27,462	\$77,394
Di Lorenzo, Dr. Patricia M	National Inst on Deafness & Other Comm Disorders	Temporal Coding in the Gustatory System of the Brain	100	\$283,423	\$141,819	\$425,242

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Di Lorenzo, Dr. Patricia M	National Institute of General Medical Sciences	SUNY UPSTATE BRIDGES TO THE BACCALAUREATE PROGRAM (SUBBP)	50	\$46,855	\$3,748	\$50,604
Diaz, Dr. Marvin R	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	25	\$36,237	\$20,588	\$56,825
Diaz, Dr. Marvin R	National Institute for Alcohol Abuse & Alcoholism	Prenatal Alcohol Exposure, CRF and Adolescent Anxiety	100	\$21,817	\$0	\$21,817
Diaz, Dr. Marvin R	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	30	\$36,814	\$20,984	\$57,798
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	\$2,660	\$0	\$2,660
Diaz, Dr. Marvin R	National Institute for Alcohol Abuse & Alcoholism	Role of BLA kappa opioid receptors in adolescent anxiety and ethanol consumption	100	\$13,042	\$7,434	\$20,475
Diaz, Dr. Marvin R	National Institute for Alcohol Abuse & Alcoholism	Impact of Prenatal Ethanol on BLA Synaptic Plasticity	50	\$2,888	\$1,646	\$4,534
Gerhardstein, Dr. Peter C	National Institute of Mental Health	Attentional Biases for Affective Cues in Infants of Depressed Mothers	10	\$14,473	\$6,472	\$20,944
Gibb, Dr. Brandon E	National Institute of Mental Health	Attentional Biases for Affective Cues in Infants of Depressed Mothers	90	\$130,254	\$58,245	\$188,498
Gibb, Dr. Brandon E	National Institute of Mental Health	A fine grained EEG/ERP examination of reward processing in suicide attempters	100	\$5,200	\$0	\$5,200
Gillis Mattson, Dr. Jennifer M	Multiple Sponsors	Children's Unit for Treatment and Evaluation 2018-2019	100	\$248,063	\$37,209	\$285,272

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Gillis Mattson, Dr. Jennifer M	NYS Education Department	CARD Albany and Regional Center(s) for Autism Spectrum Disorders	100	\$17,151	\$1,372	\$18,523
Gillis Mattson, Dr. Jennifer M	Multiple Sponsors	2019-2020 Children's Unit for Treatment and Evaluation	100	\$2,966,184	\$444,928	\$3,411,112
Gillis Mattson, Dr. Jennifer M	Multiple Sponsors	BRCASD Support	100	\$632	\$95	\$727
Gillis Mattson, Dr. Jennifer M	NYS Education Department	CARD Albany and NYS Regional Center(s) for Autism Spectrum Disorders	100	\$12,420	\$994	\$13,414
Gillis Mattson, Dr. Jennifer M	Order of the Eastern Star of New York	Autism Research	100	\$2,840	\$426	\$3,266
Gillis Mattson, Dr. Jennifer M	NYS Education Department	CARD Albany and Regional Center(s) for Autism Spectrum Disorders	100	\$1,370	\$110	\$1,479
Gillis Mattson, Dr. Jennifer M	Multiple Sponsors	School District Income for SEDCAR/IDEA Funding	100	\$68,062	\$5,008	\$73,070
Gillis Mattson, Dr. Jennifer M	Multiple Sponsors	Support of the ICD Infrastructure	100	\$5,110	\$767	\$5,877
Gillis Mattson, Dr. Jennifer M	Multiple Sponsors	Children's Unit Special Programs/ Institute for Child Development	100	\$24,254	\$3,638	\$27,893
Jentsch, Dr. James David	Regents of the University of California Los Angeles	Genetic Pathways for Impulsivity and Drug Reinforcement: DNA and Transcriptome Variation in Mice 2019-2020-	100	\$174,437	\$99,429	\$273,867
Jentsch, Dr. James David	National Institute for Alcohol Abuse & Alcoholism	Development and Neuroadaptations in Alcohol and Addiction	25	\$14,824	\$1,186	\$16,010

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Jentsch, Dr. James David	Jackson Laboratory	2020-2021 Center for Systems Neurogenetics of Addiction	100	\$1,606	\$899	\$2,505
Jentsch, Dr. James David	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	90	\$907	\$517	\$1,424
Jentsch, Dr. James David	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	70	\$85,899	\$48,963	\$134,862
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	\$36,166	\$20,615	\$56,781
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	\$5,753	\$3,221	\$8,974
Jentsch, Dr. James David	National Institute for Alcohol Abuse & Alcoholism	Development and Neuroadaptations in Alcohol and Addiction	25	\$33,392	\$2,556	\$35,948
Jentsch, Dr. James David	Jackson Laboratory	2019-2020 Center for Systems Neurogenetics of Addiction	100	\$89,596	\$49,910	\$139,506
Jentsch, Dr. James David	National Institute for Alcohol Abuse & Alcoholism	Development and Neuroadaptations in Alcohol and Addiction	25	\$725	\$58	\$783
Karkhanis, Dr. Anushree N	National Institute for Alcohol Abuse & Alcoholism	Impact on early life stress on accumbal kappa opioid signaling and ethanol intake	100	\$100,033	\$8,003	\$108,036
Miskovic, Dr. Vladimir	Tal Medical Incorporated	Pilot test of LFMS on neural dynamics	100	\$3,040	\$1,702	\$4,742
Romanczyk, Dr. Raymond	Multiple Sponsors	Childrens Unit for Treatment and Evaluation 2017-2018	100	(\$13)	(\$2)	(\$15)

<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 &amp; A Expended</i></u>	<u><i>Total Expended</i></u>
Savage, Dr. Lisa M	National Institute for Alcohol Abuse & Alcoholism	Cortical Biobehavioral Disruption after Thiamine Deficiency and Chronic Alcohol (Years2-5)	100	\$24,063	\$13,235	\$37,298
Savage, Dr. Lisa M	National Institute of General Medical Sciences	SUNY UPSTATE BRIDGES TO THE BACCALAUREATE PROGRAM (SUBBP)	50	\$46,855	\$3,748	\$50,604
Savage, Dr. Lisa M	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	100	\$136,324	\$77,705	\$214,028
Savage, Dr. Lisa M	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center (Year 10)	50	\$22,789	\$12,534	\$35,322
Savage, Dr. Lisa M	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center (Year 10)	50	\$4,993	\$2,746	\$7,740
Savage, Dr. Lisa M	National Institute for Alcohol Abuse & Alcoholism	Development and Neuroadaptations in Alcohol and Addiction	25	\$725	\$58	\$783
Savage, Dr. Lisa M	National Institute for Alcohol Abuse & Alcoholism	Development and Neuroadaptations in Alcohol and Addiction	25	\$14,824	\$1,186	\$16,010
Savage, Dr. Lisa M	National Institute of General Medical Sciences	SUNY Upstate Bridges to the Baccalaureate Program	50	\$4,200	\$336	\$4,536
Savage, Dr. Lisa M	National Institute of General Medical Sciences	SUNY Upstate Bridges to the Baccalaureate Program	50	\$35,847	\$2,169	\$38,016
Savage, Dr. Lisa M	National Institute for Alcohol Abuse & Alcoholism	Development and Neuroadaptations in Alcohol and Addiction	25	\$33,392	\$2,556	\$35,948
Spear, Dr. Linda	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	34	\$39,985	\$22,700	\$62,685



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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	\$46,743	\$25,708	\$72,451
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	\$84,360	\$46,243	\$130,603
Spear, Dr. Linda	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	10	\$101	\$57	\$158
Spear, Dr. Linda	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	25	\$8,883	\$5,063	\$13,946
Spear, Dr. Linda	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center (Year 10)	50	\$47,058	\$0	\$47,058
Spear, Dr. Linda	National Institute for Alcohol Abuse & Alcoholism	Development and Neuroadaptations in Alcohol and Addiction	25	\$14,824	\$1,186	\$16,010
Spear, Dr. Linda	National Institute for Alcohol Abuse & Alcoholism	Development and Neuroadaptations in Alcohol and Addiction	25	\$725	\$58	\$783
Spear, Dr. Linda	National Institute for Alcohol Abuse & Alcoholism	Development and Neuroadaptations in Alcohol and Addiction	25	\$33,392	\$2,556	\$35,948
Spear, Dr. Linda	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center (Year 10)	100	\$40,195	\$14,648	\$54,843
Varlinskaia, Dr. Elena I	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center (Year 10)	100	\$41,138	\$10,756	\$51,894
Varlinskaia, Dr. Elena I	National Institute for Alcohol Abuse & Alcoholism	Impact of Prenatal Ethanol on BLA Synaptic Plasticity	50	\$2,888	\$1,646	\$4,534

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
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	\$28,120	\$15,414	\$43,534
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	\$15,581	\$8,569	\$24,150
Varlinskaia, Dr. Elena I	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center (Year 10)	50	\$4,993	\$2,746	\$7,740
Varlinskaia, Dr. Elena I	National Institute on Aging	Neuroinflammation and Social Behavior Across the Lifespan (Years2-5)	10	\$5,946	\$3,041	\$8,987
Varlinskaia, Dr. Elena I	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	33	\$38,809	\$22,032	\$60,841
Varodayan, Dr. Florence Prabha	National Institute for Alcohol Abuse & Alcoholism	Alcohol-induced neuroadaptation of prefrontal cortical projections	100	\$11,515	\$6,564	\$18,079
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	\$28,120	\$15,414	\$43,534
Werner, Dr. David F.	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center (Year 10)	50	\$22,789	\$12,534	\$35,322
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	\$15,581	\$8,569	\$24,150
Werner, Dr. David F.	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	33	\$38,809	\$22,032	\$60,841
Werner, Dr. David F.	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	100	\$18,935	\$10,793	\$29,728

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Workman, Dr. Joanna L.	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center (UAlbany)	100	\$0	\$6,598	\$6,598
<b>Department Total:</b>				<b>\$7,823,556</b>		
<b>020 Public Archaeology Facility</b>						
Hohman, Mr. Chris D	Lodestar Energy	Lodestar Energy Walton Solar Project, Phase 1 CRS, Town of Walton, Delaware County, NY	100	\$2,518	\$378	\$2,895
Hohman, Mr. Chris D	T G Miller PC	Phase 1A Archaeological Assessment, City Harbor Development Project, City of Ithaca, Tompkins County NY	100	\$1,218	\$183	\$1,401
Miroff, Dr. Laurie E	LaBella Associates	Binghamton Connect Project- Broome County - Article VII Application, Cultural Resources Section	100	\$2,600	\$390	\$2,990
Miroff, Dr. Laurie E	Solar Generation	Ridgewell Solar Project, Phase 1 Cultural Survey (1.6 acres and 875 feet access road and walking trail), Town of Marletwon, Ulster County, NY	100	\$2,699	\$405	\$3,104
Miroff, Dr. Laurie E	C and S Engineering	CRS (FCC 620) Kutalek Road Tower Project, Town of Kirkwood, Broome County, NY	100	\$1,694	\$254	\$1,948
Miroff, Dr. Laurie E	C and S Engineering	CRS (FCC 620) Lisle Tower Project, Town of Lisle, Broome County, NY	100	\$1,932	\$290	\$2,222
Miroff, Dr. Laurie E	C and S Engineering	CRA (FCC 620) Cresson Hill Tower Project, Town of Windsor, Broome County, NY	100	\$1,923	\$288	\$2,211
Miroff, Dr. Laurie E	Borton-Lawson Engineering Incorporated	Phase 1 CRS, Deer Park Well Line Project, Windham Township, Wyoming County, PA	100	\$3,140	\$471	\$3,612
Miroff, Dr. Laurie E	Cole Trucking and Gravel	Cole Gravel Mine Project, Phase 1 Archaeological Survey, Town of Rathbone, Steuben County, NY	100	\$12,873	\$1,931	\$14,804

<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 &amp; A Expended</i></u>	<u><i>Total Expended</i></u>
Miroff, Dr. Laurie E	Tioga County Industrial Development Agency	Nichols Development Project, Phase 1 Archaeological Survey, Town of Nichols, Tioga County, NY	100	\$2,132	\$320	\$2,452
Miroff, Dr. Laurie E	McFarland and Johnson Engineers Incorporated	Greater Binghamton Airport Parcel 1B Project, Phase 1A Archaeological Assessment	100	\$1,725	\$259	\$1,984
Miroff, Dr. Laurie E	LaBella Associates	Greece Transmission Line 947 Project, Monroe County, Article VII Application, CRS	100	\$2,596	\$389	\$2,986
Miroff, Dr. Laurie E	C and S Engineering	Phase 1 Archaeological Survey (Areas of Site Impacts- Road, Equipment Pads, Array Area in Woodlands), Central Square Solar Project, Town of Hastings, Oswego County, NY	100	\$3,461	\$519	\$3,980
Miroff, Dr. Laurie E	Burrell's Excavating Incorporated	Dubois Mine Project, Phase 1 Archaeological Survey, Town of Oxford, Chenango County NY	100	\$10,691	\$1,604	\$12,295
Miroff, Dr. Laurie E	C and S Engineering	CRS (FCC 620), Jakman Tower, Livingston County, NY	100	\$1,671	\$251	\$1,922
Miroff, Dr. Laurie E	C and S Engineering	CRS (FCC 620), Groveland Tower, Livingston County, NY	100	\$1,567	\$235	\$1,802
Miroff, Dr. Laurie E	C and S Engineering	Grand-View-On-Hudson Project, Finding Document	100	\$3,451	\$518	\$3,969
Miroff, Dr. Laurie E	C and S Engineering	CRS (FCC 620), Floyd Tower, Oneida County, NY	100	\$1,557	\$234	\$1,791
Miroff, Dr. Laurie E	GZA GeoEnvironmental Incorporated	Pipeline 49 Black River Project, Phase 1A Archaeological Assessment, Town of Pamela, Jefferson County, NY	100	\$1,720	\$258	\$1,978
Miroff, Dr. Laurie E	C and S Engineering	Phase 1A Archaeological Assessment, SUNY Brockport Infrastructure Improvement Project, Village of Brockport and Town of Sweden, Monroe County, NY	100	\$2,587	\$388	\$2,975

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Miroff, Dr. Laurie E	Hamilton Housing Initiative Limited Liability Corporation	Phase 2 Site Examination of the Five Trees Historical Site, Elm Hill Development Project, Village of Hamilton, Madison County NY	100	\$12,680	\$1,902	\$14,582
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	\$2,255	\$338	\$2,593
Miroff, Dr. Laurie E	LaBella Associates	Phase 1B Archaeological Survey Overtime Costs, NYSEG Circuit 879 Project, Clinton County, NY	100	\$2,876	\$431	\$3,307
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	\$19	\$3	\$22
Miroff, Dr. Laurie E	C and S Engineering	Cultural Resource Screening (FCC 620) Maine Tower Project, Town of Maine, Broome County, NY	100	\$19	\$3	\$22
Miroff, Dr. Laurie E	Sage Engineering Associates	TOA-412 KSO Cultural Resource Historic Preservation Mitigation Project	100	\$9,416	\$1,412	\$10,828
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	\$3,113	\$467	\$3,580
Miroff, Dr. Laurie E	NYS Education Department	NYS Cultural Resources Survey Program 2020-2021	100	\$34,758	\$5,214	\$39,972
Miroff, Dr. Laurie E	F.S. Lopke Contracting Incorporated	Ayers Brink Project - Phase 3 Data Recovery, Ayers 1 Site, Clusters G to L	100	\$259	\$39	\$298
Miroff, Dr. Laurie E	Delta Engineers	Fenton Sidewalk Project, Phase 1 Archaeological Survey	100	\$583	\$88	\$671
Miroff, Dr. Laurie E	Delta Engineers	Fenton Sidewalk Project Phase 1 Architectural Survey	100	\$2,775	\$416	\$3,191

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Miroff, Dr. Laurie E	LaBella Associates	Star L962 and Lounsberry Alternatives Project, Tioga and Chemung Counties, Article VII Application, Cultural Resources Section	100	\$3,746	\$562	\$4,308
Miroff, Dr. Laurie E	C and S Engineering	Portville 4 Solar Project, Phase 1 Architectural Survey, Town of Portville, Cattaraugus County	100	\$2,474	\$371	\$2,845
Miroff, Dr. Laurie E	C and S Engineering	Portville 3 Solar Project, Phase 1 Architectural Survey, Town of Portville, Cattaraugus County	100	\$2,260	\$339	\$2,599
Miroff, Dr. Laurie E	NYS Education Department	2020-2021 Administrative Task - Cultural Resources Survey	100	\$39,725	\$5,959	\$45,684
Miroff, Dr. Laurie E	LaBella Associates	Langdon Substation Project, Phase 1A and 1B Archaeological Services, Town of Kirkwood, Broome County, NY	100	\$779	\$117	\$896
Miroff, Dr. Laurie E	IEDC	Phase 1B Cultural Resource Survey (approximately 272-277 STPs) WNYE Gas Pipeline Project, Orleans and Genesee Counties, NY	100	\$1,736	\$260	\$1,997
Miroff, Dr. Laurie E	LaBella Associates	Phase 1B Archaeological Survey, NYSEG Circuit Proposal 879	100	\$4,545	\$682	\$5,227
Miroff, Dr. Laurie E	Environmental Design & Research	Phase 1B - High Bridge Wind Project	100	\$24,326	\$3,649	\$27,975
Miroff, Dr. Laurie E	Alex Lyon and Son	Phase 1 Archaeological Survey, Lyons Runne 2 Development Project, Town of Cicero, Onondaga County, NY	100	\$15,887	\$2,383	\$18,270
Miroff, Dr. Laurie E	Calocerinos Engineering PLLC	Phase 1 Archaeological Survey, Tabitha Creek Section G-2 Development Project, Town of Onondaga, Onondaga Coutny, NY	100	\$8,011	\$1,202	\$9,213
Miroff, Dr. Laurie E	LOK Development LLC	Phase 1 Archaeological Survey (Subsurface Survey- 960-1200 STPs) Cleveland Heights Subdivision Project, Town of Onondaga, Onondaga County, NY	100	\$3,636	\$545	\$4,181

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Miroff, Dr. Laurie E	NYS Education Department	2019-2020 Admin Task 1001- Binghamton Highway Project	100	\$119,875	\$17,981	\$137,856
Miroff, Dr. Laurie E	Lamont Engineers	Phase 2 Site Examinations & Phase 1B Addendum Survey, Sidney Water System Improvement Project, Sidney NY	100	\$58,708	\$8,806	\$67,514
Miroff, Dr. Laurie E	C and S Engineering	Glass Greenhouse Project Construction Monitoring, Cowaselon Precontact Site, Wampsville, Madison County, NY	100	\$11,018	\$1,653	\$12,671
Miroff, Dr. Laurie E	NYS Education Department	2019-2020 Binghamton Cultural Resources Survey Program	100	\$271,118	\$40,668	\$311,786
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	\$25,130	\$3,769	\$28,899
Miroff, Dr. Laurie E	Binghamton Urban Renewal Agency	Phase 3 Data Recovery on the Binghamton Mall Site on the 7 Hawley Street Development Project, City of Binghamton, Broome County, NY	100	\$10,048	\$1,507	\$11,555
Miroff, Dr. Laurie E	F.S. Lopke Contracting Incorporated	Ayers Brink Project, Phase 3 Data Recovery- Ayers 1 site and Ayers 3 site (07PR05868)	100	\$5,148	\$772	\$5,920
Miroff, Dr. Laurie E	Barton and Loguidice DPC	Construction Inspection and Construction Management Services on Front Street Gateway, PIN 9753.16	100	\$4,521	\$678	\$5,199
Miroff, Dr. Laurie E	Civil War Trust	Revolutionary War and War of 1812 Preservation Mapping Project	100	\$14,992	\$2,249	\$17,241
Miroff, Dr. Laurie E	Multiple Sponsors	Miscellaneous Income from PAF Activities	100	\$12,480	\$1,872	\$14,352
Miroff, Dr. Laurie E	Stantec Consulting Services Inc	Structure Documentation, Kent Falls Bridge (Oxbow Bridge) - BIN3335790 Towns of Plattsburgh and Schuyler Falls, Clinton County, NY	100	\$2,742	\$411	\$3,153

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Miroff, Dr. Laurie E	National Park Service	Historical and Archaeological Survey of the Battlefield of Fort Bull, NY	100	\$18,334	\$340	\$18,674
Miroff, Dr. Laurie E	Convergent Energy Solutions New York LLC	Phase 1 Archaeological Survey (.3 acres of Site Impacts) Cicero ES1 Solar Project, Town of Cicero, Onondaga County, NY	100	\$2,301	\$345	\$2,646
Miroff, Dr. Laurie E	LaBella Associates	Seifert Road Bridge over Wood Creek Project, Phase 1 Archaeological Survey, City of Rome, Oneida County, NY	100	\$2,001	\$300	\$2,302
Miroff, Dr. Laurie E	Clark Companies	Phase 3 Data Recovery of the Denton Reed II site, Earl Road Gravel Mine Project, Town of Unadilla, Otsego County, NY	100	\$34,431	\$5,165	\$39,596
Miroff, Dr. Laurie E	Convergent Energy Solutions New York LLC	Phase 1 Archaeological Survey (areas of Site Impacts- Road, Converter, Interfer/battery/transformer), Cicero ES2 Solar Project, Town of Cicero, Onondaga County, NY	100	\$2,530	\$379	\$2,909
Miroff, Dr. Laurie E	C and S Engineering	SUNY Polytechnic Institute Project, Phase 1A Cultural Resource Assessment, Town of Marcy, Onieda County, NY	100	\$1,636	\$245	\$1,882
Miroff, Dr. Laurie E	McFarland and Johnson Engineers Incorporated	Ogdensburg International Airport Phase 1 Development Project, Phase 1B Archaeological Survey	100	\$10,307	\$1,546	\$11,853
Miroff, Dr. Laurie E	McFarland and Johnson Engineers Incorporated	Watertown International Airport Project, Phase 1A CRA, Town of Hounsfield, Jefferson County, NY	100	\$2,361	\$354	\$2,715
Miroff, Dr. Laurie E	Maser Consulting P.A.	Varano Solar Project, Phase 1 Archaeological Addendum Survey, Town of Goshen, Orange County, NY	100	\$2,762	\$414	\$3,176
Miroff, Dr. Laurie E	NYS Department of Environmental Conservation	Phase 1 Archaeolgoical Survey, Parcel 45 Wildlife Management Area Project, Town of Wilton, Saratoga County, NY	100	\$1,970	\$295	\$2,265
Miroff, Dr. Laurie E	Colgate University	Project Name: Elm Hill Development Owner: Hamilton Housing Initiative LLC, PO Box 238 Hamilton, NY 13346	100	\$3,163	\$475	\$3,638



<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
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	\$16,521	\$2,478	\$19,000
Miroff, Dr. Laurie E	Maser Consulting P.A.	Forefront Power Urbanski Solar LLC - Phase 1 Archaeological addendum survey, Town of Goshen, Orange County, NY	100	\$4,346	\$652	\$4,998
Miroff, Dr. Laurie E	LaBella Associates	Rochester New 115K V Transmission Line Project, Town of Gates & City of Rochester, Monroe County, Article VII application, CRS	100	\$2,608	\$391	\$2,999
Miroff, Dr. Laurie E	Lodestar Energy	Lodestar Energy Hunt Creek Solar Project, Phase 1 CRS, Town of Nichols, Tioga County NY	100	\$5,147	\$772	\$5,919
Miroff, Dr. Laurie E	Lodestar Energy	Lodestar Energy Smith Creek Road Solar Project, Phase 1 CRS, Town of Nichols, Tioga County NY	100	\$2,690	\$404	\$3,094
Miroff, Dr. Laurie E	LaBella Associates	Phase 2 Site Examination, NYSEG Circuit 879 Project, Pike's Cantonment Site, Northern Locus	100	\$12,047	\$1,807	\$13,854
Miroff, Dr. Laurie E	Beardsley Design Associates	Kesselring Artifact Photo Project (TOA 132-Item 2- Beardsley Project #16109), Towns of Milton and Galway, Saratoga County, NY	100	\$5,404	\$811	\$6,215
Miroff, Dr. Laurie E	C and S Engineering	CRS (FCC 620), Annsville Tower, Oneida County, NY	100	\$1,566	\$235	\$1,801
O'Donovan, Dr. Maria	Multiple Sponsors	Journal for the Council of Northeast Historical Archaeology	100	\$1,693	\$254	\$1,946
Versaggi, Dr. Nina M	Hanover Engineering Associates	Phase 1 CRS, SV 228- YM 52 (S) Dehy Pipeline Project, Homer Township, Potter County, PA Account # HEA JKLM-1016	100	\$19	\$3	\$22
Versaggi, Dr. Nina M	National Park Service	Oneida Castle Battlefield Archaeological Survey	100	\$10,872	\$1,631	\$12,503

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
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	\$31,487	\$5,353	\$36,840
Versaggi, Dr. Nina M	C and S Engineering	CRS (FCC 620) Sanford Laurel Lake Road Tower, Broome County NY	100	\$227	\$34	\$261
Versaggi, Dr. Nina M	LaBella Associates	NYSEG Circuit 879 Project, Phase 1A CRA, Clinton County, NY	100	\$208	\$31	\$239
Versaggi, Dr. Nina M	Parsons Engineering Science Incorporated	Onondaga Lake Hudson Farms Ecological Area Project, Phase 1 Archaeological Survey Project 451742.08220	100	\$3,468	\$520	\$3,989
<b>Department Total:</b>				<b>\$1,097,059</b>		

**020 Research VP**

Park, Dr. Seungbae	Multiple Sponsors	Symposium and Other IEEC Activities	100	\$62,601	\$15,650	\$78,251
Poliks, Dr. Mark D	NextFlex	5.2A Datacube: Printed Stretchable Conductors	100	\$6,773	\$3,861	\$10,634
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match to Project 5.2A: DataCube: Printed Stretchable Conductors	100	\$6,773	\$3,861	\$10,634
Poliks, Dr. Mark D	NextFlex	Project 5.7: Additively Manufactured High Temperature Electronics for Hypersonics	100	\$3,362	\$1,917	\$5,279
Poliks, Dr. Mark D	Universal Instruments Corporation	FlexMed: Evaluation of flip-chip methods suitable for low-cost, limited-temperature flexible substrate materials	100	\$5,889	\$1,472	\$7,361
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match: Project 5.7 Additively Manufactured High Temperature Electronics for Hypersonics	100	\$13,771	\$7,850	\$21,621

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; 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	\$3,274	\$1,866	\$5,141
Poliks, Dr. Mark D	NextFlex	Project 5.7: Additively Manufactured High Temperature Electronics for Hypersonics	100	\$140,365	\$14,250	\$154,615
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match to Project 5.4- Factory-to-Field Embedded Sensing for Structural Components	100	\$3,015	\$1,718	\$4,733
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match to Project 5.4- Factory-to-Field Embedded Sensing for Structural Components	100	\$22,032	\$12,558	\$34,591
Poliks, Dr. Mark D	NextFlex	Project 5.4: Factory-to-Field Embedded Sensing for Structural Components	100	\$3,103	\$1,769	\$4,872
Poliks, Dr. Mark D	NextFlex	Project 5.4: Factory-to-Field Embedded Sensing for Structural Components	100	\$101,128	\$14,250	\$115,378
Poliks, Dr. Mark D	Empire State Development Corp	Project 5.8 - Temperature and Humidity Sensing	100	\$847	\$483	\$1,329
Poliks, Dr. Mark D	NextFlex	ADP- Topic 5.8: Temperature and Humidity Sensing Tag Phase 2 Funding	100	\$7,020	\$0	\$7,020
Poliks, Dr. Mark D	NextFlex	Temperature and Humidity Sensing - Phase 1	100	\$19,567	\$4,484	\$24,051
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Advances in Integration and Packaging of Electronic Systems	100	\$38,210	\$5,731	\$43,941
Turner, Mr. James N	Empire State Development Corp	Match to Improved ECG Monitor with Capacitive Electrodes	20	\$22,967	\$10,618	\$33,585

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Turner, Mr. James N	LightSpin Technologies Incorporated	SiPM Array detector for 50 ps CTR	50	\$1,555	\$871	\$2,426
Turner, Mr. James N	Flex Tech Alliance	Improved ECG Monitor with Capacitive Electrodes	20	\$22,246	\$10,646	\$32,892

**Department Total: \$598,352**

***020 School Of Management***

Cui, Dr. Leon	Adobe Systems Incorporated	Unrestricted Research Support	100	\$3,468	\$520	\$3,988
Dhillon, Dr. Upinder	Multiple Sponsors	Award for School of Management Personnel Costs	100	\$45,236	\$6,785	\$52,022
Dionne, Ms. Shelley	US Army Research Institute	Collective Planning and Leadership for the US Army	33.3	\$58,220	\$6,382	\$64,602
Dionne, Ms. Shelley	National Science Foundation	Diversity, Network Structure, and the Effectiveness of Collective Design and Innovation	33.33	\$32,427	\$16,615	\$49,042
Dionne, Ms. Shelley	National Science Foundation	Diversity, Network Structure, and the Effectiveness of Collective Design and Innovation	33.33	\$667	\$0	\$667
Iankova- TERMED, Ms. Elena	Appalachian Regional Commission	Center for International Business Advancement at Binghamton University	100	\$15,374	\$0	\$15,374
Iankova- TERMED, Ms. Elena	Multiple Sponsors	Income Account for Award 78504	100	\$9,036	\$0	\$9,036
Yammarino, Dr. Francis J	Multiple Sponsors	Miscellaneous Income - Fran Yammarino	100	\$950	\$143	\$1,093

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Yammarino, Dr. Francis J	National Science Foundation	Diversity, Network Structure, and the Effectiveness of Collective Design and Innovation	33.33	\$32,427	\$16,615	\$49,042
Yammarino, Dr. Francis J	National Science Foundation	Diversity, Network Structure, and the Effectiveness of Collective Design and Innovation	33.33	\$667	\$0	\$667
Yammarino, Dr. Francis J	US Army Research Institute	Collective Planning and Leadership for the US Army	33.4	\$58,395	\$6,401	\$64,796
<b>Department Total:</b>				<b>\$310,327</b>		

**020 School of Nursing Academic**

Britton, Ms. Geraldine R.	Ohio State University	NCBHAC Project	100	\$2,250	\$0	\$2,250
Bryant, Dr. Sharon A	US Department of Education	Binghamton University Upward Bound Math and Science 2017-2022	100	\$237,127	\$18,970	\$256,097
Bryant, Dr. Sharon A	NYS Education Department	Collegiate Science and Technology Entry Program (CSTEP) 2019-2020	100	\$161,605	\$11,424	\$173,029
Bryant, Dr. Sharon A	NYS Education Department	2019-2020 Science and Technology Entry Program (STEP)	50	\$50,754	\$3,117	\$53,871
Bryant, Dr. Sharon A	NYS Education Department	Collegiate Science and Technology Entry Program (CSTEP) 2018-2019	100	\$14,111	\$477	\$14,588
Bryant, Dr. Sharon A	NYS Education Department	Science and Technology Entry Program STEP 2018-2019	50	\$3,501	\$200	\$3,701
Bryant, Dr. Sharon A	US Department of Education	Binghamton University Upward Bound Math and Science 2017-2022	100	\$11,108	\$0	\$11,108

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Bryant, Dr. Sharon A	US Department of Education	Binghamton University Upward Bound Math and Science 2017-2022	100	\$6,360	\$0	\$6,360
Fronczek, Ms. Ann	Regional Economic Development and Energy Corporation of the Southern Tier Central Region (REDEC)	Southern Tier Telemedicine and Mobile Health Research Development and Training Center	50	\$187,020	\$0	\$187,020
Fronczek, Ms. Ann	Health Resources and Services Admin	Advancing Nursing Education Workforce	50	\$139,646	\$0	\$139,646
Fronczek, Ms. Ann	Health Resources and Services Admin	Advancing Nursing Education Workforce	50	\$147,052	\$11,764	\$158,816
Fronczek, Ms. Ann	Health Resources and Services Admin	Advanced Nursing Education Workforce	33	\$4,366	\$2,183	\$6,549
Fronczek, Ms. Ann	Health Resources and Services Admin	Advanced Nursing Education Workforce	33	\$0	\$6,835	\$6,835
Myers, Dr. Ann	Multiple Sponsors	Susan Pardee Baker Trust - Unrestricted Research Support	50	\$1,053	\$158	\$1,211
Rouhana, Ms. Nicole A.	Health Resources and Services Admin	Advanced Nursing Education Workforce	34	\$0	\$7,042	\$7,042
Rouhana, Ms. Nicole A.	Health Resources and Services Admin	Advanced Nursing Education Workforce	34	\$4,498	\$2,249	\$6,748
Rouhana, Ms. Nicole A.	Health Resources and Services Admin	Advancing Nursing Education Workforce	50	\$147,052	\$11,764	\$158,816
Rouhana, Ms. Nicole A.	Health Resources and Services Admin	Advancing Nursing Education Workforce	50	\$139,646	\$0	\$139,646

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Rouhana, Ms. Nicole A.	Mary Imogene Bassett Hospital	Advanced Nursing Education Workforce Grant Program Binghamton University - HRSA # T14HP33198	100	\$71,503	\$7,150	\$78,653
Stewart-Fahs, Dr. Pamela S.	Health Resources and Services Admin	Advanced Nursing Education Workforce	33	\$0	\$6,835	\$6,835
Stewart-Fahs, Dr. Pamela S.	Health Resources and Services Admin	Advanced Nursing Education Workforce	33	\$4,366	\$2,183	\$6,549

**Department Total: \$1,425,369**

**020 Small Business Dev Center**

Layman, Ms. Rochelle	Small Business Administration	SBTDC - Federal and State Technology (FAST) Partnership 2018/2019	100	\$14,990	\$1,799	\$16,789
Layman, Ms. Rochelle	Small Business Administration	SBDC 2019/2020	100	\$130,491	\$15,659	\$146,150
Layman, Ms. Rochelle	Small Business Administration	Small Business Development Centers Cares Act	100	\$6,882	\$826	\$7,707
Layman, Ms. Rochelle	Small Business Administration	SBDC 2017/2018	100	\$75,636	\$9,076	\$84,712
Layman, Ms. Rochelle	Multiple Sponsors	Program Income Account for SBDC Training Activities Associated with federal SBA funding	100	\$4,364	\$60	\$4,424
Layman, Ms. Rochelle	Multiple Sponsors	Miscellaneous Income- Small Business Development Center Activities	100	\$1,068	\$160	\$1,228
Layman, Ms. Rochelle	Empire State Development Corp	ESD Covid-19 Disaster Relief Technical Assistance Grants	100	\$9,012	\$901	\$9,913

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Layman, Ms. Rochelle	Small Business Administration	SBDC 2018/2019	100	\$118,518	\$14,222	\$132,740
<b>Department Total:</b>				<b>\$403,663</b>		
<b>020 Sociology</b>						
Lee, Dr. Richard E	Multiple Sponsors	Income for Fernand Braudel Center Activities	100	\$4,548	\$682	\$5,230
<b>Department Total:</b>				<b>\$5,230</b>		
<b>020 Student Affairs V P</b>						
Baldwin, Ms. Nita L.	US Department of Education	Binghamton University Upward Bound Rural Program 2017-2022	100	\$24,981	\$0	\$24,981
Baldwin, Ms. Nita L.	US Department of Education	2018-2020 Binghamton University Upward Bound Program	100	\$443,650	\$34,974	\$478,624
Baldwin, Ms. Nita L.	US Department of Education	Binghamton University Upward Bound Rural Program 2017-2022	100	\$285,913	\$22,815	\$308,728
Baldwin, Ms. Nita L.	US Department of Education	2018-2020 Binghamton University Upward Bound Program	100	\$49,157	\$0	\$49,157
Marulli, Ms. Erin	United Way of Broome County Inc	Adult Empowerment Series	100	\$125	\$19	\$143
Rebello, Mr. Stephen Michael	US Department of Education	SSS-STEM Program at Binghamton University 2015-2020	100	\$237,892	\$19,031	\$256,924
Rebello, Mr. Stephen Michael	US Department of Education	SSS-STEM Program at Binghamton University 2015-2020	100	\$10,025	\$0	\$10,025



<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Rebello, Mr. Stephen Michael	US Department of Education	2016-2021 Student Support Services Program	100	\$353,906	\$28,313	\$382,219
Rebello, Mr. Stephen Michael	US Department of Education	2016-2021 Student Support Services Program	100	\$34,000	\$0	\$34,000

**Department Total: \$1,544,801**

**020 Systems Science and Indust Eng (SSIE)**

Borgesen, Mr. Peter	Multiple Sponsors	International Visiting Research Scholar Activities	100	\$1,120	\$280	\$1,400
Borgesen, Mr. Peter	Purdue University	Borgesen 2020 SRC CHIRP: Reliable Low Temperature Solder Approach	100	\$936	\$534	\$1,470
Borgesen, Mr. Peter	Purdue University	CHIRP: Alternative Fine Pitch Interconnect Technologies for SiPs (Proposal Number W32617)	100	\$30,182	\$17,204	\$47,386
Borgesen, Mr. Peter	Hitachi Chemical Company Ltd.	Nanocopper Process and Reliability	100	\$15,735	\$8,969	\$24,704
Chung, Dr. Sunghoon	Materials Handling Industry	MHI and CICMHE Research Funding Program Start-up Grant	100	\$272	\$0	\$272
Deng, Dr. Jia	Hatala Orthodontics	3-D Printing Orthodontic Models	100	\$2,616	\$654	\$3,270
Greene, Dr. Christopher M	Smart Modular Technologies Inc	Process Improvement for the assembly of complex data server systems	33.3	\$18,111	\$3,749	\$21,861
Greene, Dr. Christopher M	Smart Modular Technologies Inc	Research Driven Continual Process Improvement or Complex Surface Mount Device Assemblies	50	\$30,477	\$6,107	\$36,584

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Greene, Dr. Christopher M	Smart Modular Technologies Inc	Advanced Process Research and Development for Complex Surface Mount Devices Assemblies	50	\$17,391	\$3,151	\$20,542
Greene, Dr. Christopher M	Smart Modular Technologies Inc	Process Analysis and Improvement for the Assembly of Complex Data Server Systems	50	\$21,756	\$3,959	\$25,715
Greene, Dr. Christopher M	Smart Modular Technologies Inc	Failure Analysis and Reliability Research For DRAM and Flash Memory Products	33.3	\$8,443	\$2,195	\$10,638
Greene, Dr. Christopher M	Smart Modular Technologies Inc	Process Research and Development for Complex Surface Mount Device Assemblies	50	\$6,906	\$1,796	\$8,702
Greene, Dr. Christopher M	Penguin Computing Incorporated	Incoming Inspection and Supplier Quality Studies for the Assembly of Complex Data Server Systems	33.3	\$7,943	\$1,322	\$9,265
Khasawneh, Dr. Mohammad	United Health Services Hospitals Incorporated	Business Intelligence & Performance Improvement at UHSH	50	\$81,097	\$18,588	\$99,685
Khasawneh, Dr. Mohammad	Montefiore Hospital and Medical Center	Improving The Efficiency and Effectiveness of Healthcare Delivery	33.3	\$999	\$0	\$999
Khasawneh, Dr. Mohammad	Memorial Sloan Kettering Cancer Center	Amendment 3- Improving Quality, Safety, and Patient Flow and Outpatient Medication Management	50	\$26,473	\$6,042	\$32,515
Khasawneh, Dr. Mohammad	MaineHealth	Health Care Performance, Quality, and Safety Improvement at MaineHealth	33.4	\$14,132	\$3,070	\$17,202
Khasawneh, Dr. Mohammad	LiveOnNY	Performance Improvement of Clinical Practices and Operations Research 2019-2020	25	\$9,363	\$1,654	\$11,018
Khasawneh, Dr. Mohammad	Cooper University Health Care	Redesign of Care Processes and Workflows to Facilitate the Implementation of a Customer Relationship Management System (Amendment #5: Agreement #15010071)	33.4	\$15,551	\$3,588	\$19,140

<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 &amp; A Expended</i></u>	<u><i>Total Expended</i></u>
Khasawneh, Dr. Mohammad	Finger Lakes Community Health (FLCH)	Population Health and Operations Management for Sustainable and Comprehensive Quality Care	33.4	\$2,326	\$0	\$2,326
Khasawneh, Dr. Mohammad	Finger Lakes Community Health (FLCH)	Population Health and Operations Management for Sustainable and Comprehensive Quality Care	33.4	\$10,916	\$2,838	\$13,755
Khasawneh, Dr. Mohammad	Regional Economic Development and Energy Corporation of the Southern Tier Central Region (REDEC)	Southern Tier Telemedicine and Mobile Health Research Development and Training Center	50	\$187,020	\$0	\$187,020
Khasawneh, Dr. Mohammad	Memorial Sloan Kettering Cancer Center	Improving Quality, Safety, and Patient Flow and Outpatient Medication Management	50	\$7,158	\$0	\$7,158
Khasawneh, Dr. Mohammad	Memorial Sloan Kettering Cancer Center	Improving Quality, Safety, and Patient Flow and Outpatient Medication Management	50	\$12,107	\$3,148	\$15,255
Khasawneh, Dr. Mohammad	United Health Services Hospitals Incorporated	Business Intelligence & Performance Improvement at UHS	50	\$23,246	\$6,044	\$29,290
Khasawneh, Dr. Mohammad	Christiana Care Health Services Incorporated	Organizational Excellence Support at Christiana Care	50	\$13,544	\$3,271	\$16,816
Khasawneh, Dr. Mohammad	LiveOnNY	Qualitative Analysis of Psychosocial Factors linked to Authorization for the Donation of Vascularized Composit Allografts	100	\$51,523	\$12,895	\$64,418
Khasawneh, Dr. Mohammad	Cooper University Health Care	Redesign of Care Processes and Workflows to Facilitate the Implementation of a Customer Relationship Management System	34	\$6,893	\$1,792	\$8,685
Khasawneh, Dr. Mohammad	EwingCole	Healthcare Design Research and Development for Operational Efficiency and Value Creation	50	\$15,766	\$3,849	\$19,614
Khasawneh, Dr. Mohammad	Montefiore Hospital and Medical Center	Improving The Efficiency and Effectiveness of Healthcare Delivery	33.3	\$10,011	\$2,603	\$12,614

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Lam, Dr. Sarah	Cooper University Health Care	Redesign of Care Processes and Workflows to Facilitate the Implementation of a Customer Relationship Management System (Amendment #5: Agreement #15010071)	33.3	\$15,505	\$3,577	\$19,082
Lam, Dr. Sarah	IBM Corporation	Business Intelligence and Analytics for Server Manufacturing	50	\$5,488	\$1,427	\$6,914
Lam, Dr. Sarah	Cooper University Health Care	Redesign of Care Processes and Workflows to Facilitate the Implementation of a Customer Relationship Management System	33	\$6,690	\$1,739	\$8,429
Lu, Dr. Susan Shuxia	National Science Foundation	I-Corps: Low-Cost and Highly Efficient Hydrogen Production from Water Splitting	50	\$9,588	\$1,065	\$10,653
Nagarur, Dr. Nagendra	Sanmina Corporation	Implementation of Automation in a Surface Mount Technology Company	50	\$10,138	\$2,636	\$12,774
Nagarur, Dr. Nagendra	Sanmina Corporation	Automation and Process Improvement in a Contract Manufacturing Company	50	\$19,717	\$3,586	\$23,303
Nagarur, Dr. Nagendra	Jabil Circuit Incorporated	Medical/ Diagnostic Devices and Enterprise Systems	50	\$2,645	\$688	\$3,332
Nagarur, Dr. Nagendra	Sanmina Corporation	Research in Electronics Manufacturing and Automation	50	\$2,534	\$659	\$3,193
Poliks, Dr. Mark D	NextFlex	PC 4.9 Small Unmanned Aircraft Systems (SUAS) using Flexible Hybrid Electronics for Expanded Multi-Mission Operation	100	\$9,390	\$5,353	\$14,743
Poliks, Dr. Mark D	Flex Tech Alliance	Asset Monitoring- Open Project Call (project number 11002)	100	\$142,285	\$0	\$142,285
Poliks, Dr. Mark D	Flex Tech Alliance	Improved ECG Monitor with Capacitive Electrodes	20	\$22,246	\$10,646	\$32,892

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Poliks, Dr. Mark D	Empire State Development Corp	Match to Improved ECG Monitor with Capacitive Electrodes	20	\$22,967	\$10,618	\$33,585
Poliks, Dr. Mark D	Analog Devices, Incorporated	Critical Materials, Surfaces, and Interfaces for Advanced Packaging	100	\$34,388	\$8,195	\$42,582
Poliks, Dr. Mark D	NYS Department of Economic Development	Center For Flexible Hybrid Medical Device Manufacturing	100	\$183,039	\$26,592	\$209,631
Poliks, Dr. Mark D	NextFlex	4.8 Wearable Interstitial Fluid Biomarker Monitoring Device	100	\$21,581	\$11,484	\$33,065
Poliks, Dr. Mark D	NextFlex	4.8 Wearable Interstitial Fluid Biomarker Monitoring Device	100	\$262,889	\$29,115	\$292,003
Poliks, Dr. Mark D	Corning Incorporated	FlexMed: Metalization and R2R Processing of the Thin Flexible Inorganic Substrates	100	\$20,973	\$11,955	\$32,928
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match to 4.8 Wearable Interstitial Fluid Biomarker Monitoring Device	100	\$144,757	\$14,250	\$159,007
Poliks, Dr. Mark D	NextFlex	PC 4.9 Small Unmanned Aircraft Systems (SUAS) using Flexible Hybrid Electronics for Expanded Multi-Mission Operation	100	\$115,648	\$28,500	\$144,148
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	\$45,102	\$25,708	\$70,810
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	\$262,829	\$14,250	\$277,079

<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 &amp; A Expended</i></u>	<u><i>Total Expended</i></u>
Poliks, Dr. Mark D	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	\$88,000	\$0	\$88,000
Poliks, Dr. Mark D	Empire State Development Corp	Operational Account	100	\$30,492	\$17,380	\$47,872
Poliks, Dr. Mark D	Flex Tech Alliance	Asset Monitoring- Open Project Call (project number 11002)	100	\$25,847	\$14,258	\$40,105
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match to 4.8 Wearable Interstitial Fluid Biomarker Monitoring Device	100	\$21,580	\$11,483	\$33,064
Poliks, Dr. Mark D	Empire State Development Corp	ESD Funded- AFRL Flexible Hybrid Electronics Phase 0 Foundational Engineering Problem	100	\$50,473	\$22,492	\$72,965
Poliks, Dr. Mark D	Flex Tech Alliance	NextFlex Project 2.8 Assessment and Optimization of the Reliability of Wearable Performance Monitors	100	\$56,071	\$0	\$56,071
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match- NextFlex Project 2.8: Assessment and Optimization of the Reliability of Wearable Performance Monitors	100	\$129,001	\$14,808	\$143,808
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match to Asset Monitoring Award with GE	100	\$142,285	\$0	\$142,285
Poliks, Dr. Mark D	Flex Tech Alliance	NextFlex- AFRL Flexible Hybrid Electronics Phase 0 Foundational Engineering Problem	100	\$50,836	\$22,699	\$73,535
Poliks, Dr. Mark D	NextFlex	3.7(a) Disposable and Adjustable Vital Sign Monitoring Device	100	\$44,884	\$21,569	\$66,453
Poliks, Dr. Mark D	NextFlex	3.7(a) Disposable and Adjustable Vital Sign Monitoring Device	100	\$447,023	\$14,250	\$461,273

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Poliks, Dr. Mark D	Empire State Development Corp	FlexTech Alliance Capital Matching Award to 3.7(a) Disposable and Adjustable Vital Sign Monitoring Device	100	\$62,290	\$31,491	\$93,780
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match to Asset Monitoring Award with GE	100	\$25,847	\$14,258	\$40,105
Poliks, Dr. Mark D	Empire State Development Corp	FlexTech Alliance Capital Matching Award to 3.1 Additively Printed Circuit Elements for Antenna & Microwave	100	\$141,899	\$0	\$141,899
Poliks, Dr. Mark D	Empire State Development Corp	FlexTech Alliance Capital Matching Award to 3.1 Additively Printed Circuit Elements for Antenna & Microwave	100	\$26,662	\$14,659	\$41,321
Poliks, Dr. Mark D	Lockheed Martin Corporation	NextFlex Project 3.1 Additively Printed Circuit Elements for Antenna & Microwave	100	\$146,250	\$0	\$146,250
Poliks, Dr. Mark D	Lockheed Martin Corporation	NextFlex Project 3.1 Additively Printed Circuit Elements for Antenna & Microwave	100	\$21,210	\$11,552	\$32,762
Poliks, Dr. Mark D	Flex Tech Alliance	NextFlex Project 2.8 Assessment and Optimization of the Reliability of Wearable Performance Monitors	100	\$151,015	\$33,799	\$184,814
Poliks, Dr. Mark D	Empire State Development Corp	FlexTech Alliance Capital Matching Award to 3.7(a) Disposable and Adjustable Vital Sign Monitoring Device	100	\$276,380	\$0	\$276,380
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match- NextFlex Project 2.8: Assessment and Optimization of the Reliability of Wearable Performance Monitors	100	\$58,000	\$0	\$58,000
Santos, Dr. Daryl L	Smart Modular Technologies Inc	Quality Engineering Research and Development for Complex Surface Mount Assemblies	50	\$16,737	\$4,352	\$21,089
Santos, Dr. Daryl L	Penguin Computing Incorporated	Incoming Inspection and Supplier Quality Studies for the Assembly of Complex Data Server Systems	33.3	\$7,943	\$1,322	\$9,265

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Santos, Dr. Daryl L	Smart Modular Technologies Inc	Process Improvement for the assembly of complex data server systems	33.3	\$18,111	\$3,749	\$21,861
Santos, Dr. Daryl L	General Electric Global Research	Research in Radio Frequency and Power Packaging Technologies	50	\$3,009	\$0	\$3,009
Santos, Dr. Daryl L	General Electric Global Research	Research in Radio Frequency and Power Packaging Technologies	50	\$9,075	\$5,173	\$14,248
Santos, Dr. Daryl L	Analog Devices, Incorporated	System in Package (SiP) Assembly Engineering Research and Development PO 45572734, 45631054	50	\$4,125	\$1,073	\$5,198
Santos, Dr. Daryl L	Smart Modular Technologies Inc	Failure Analysis and Reliability Research For DRAM and Flash Memory Products	33.3	\$8,443	\$2,195	\$10,638
Sayama, Dr. Hiroki	University of Georgia	Modeling Anhedonia in Schizophrenia: A Stochastic Dynamical Systems Approach 1R21MH112925-01	100	\$7,029	\$3,936	\$10,965
Sayama, Dr. Hiroki	US Army Research Institute	Collective Planning and Leadership for the US Army	33.3	\$58,220	\$6,382	\$64,602
Sayama, Dr. Hiroki	National Science Foundation	Diversity, Network Structure, and the Effectiveness of Collective Design and Innovation	33.34	\$667	\$0	\$667
Sayama, Dr. Hiroki	National Science Foundation	Diversity, Network Structure, and the Effectiveness of Collective Design and Innovation	33.34	\$32,437	\$16,620	\$49,057
Srihari, Dr. Krishnaswami	Smart Modular Technologies Inc	Research Driven Continual Process Improvement or Complex Surface Mount Device Assemblies	50	\$30,477	\$6,107	\$36,584
Srihari, Dr. Krishnaswami	Analog Devices General Trias Incorporated	Demand Signal Analysis and Dispatching Process Automation in Semiconductor Manufacturing Project 1- ADI Demand Signal Analysis and Forecast Netting Process Improve	34	\$5,972	\$2,724	\$8,696



<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Srihari, Dr. Krishnaswami	Analog Devices General Trias Incorporated	Demand Signal Analysis and Dispatching Process Automation in Semiconductor Manufacturing Project 2- ADGT Dispatching Process Automation	34	\$3,936	\$1,604	\$5,540
Srihari, Dr. Krishnaswami	Sanmina Corporation	Automation and Process Improvement in a Contract Manufacturing Company	50	\$19,717	\$3,586	\$23,303
Srihari, Dr. Krishnaswami	Cooper University Health Care	Redesign of Care Processes and Workflows to Facilitate the Implementation of a Customer Relationship Management System (Amendment #5: Agreement #15010071)	33.3	\$15,505	\$3,577	\$19,082
Srihari, Dr. Krishnaswami	LiveOnNY	Performance Improvement of Clinical Practices and Operations Research 2019-2020	25	\$9,363	\$1,654	\$11,018
Srihari, Dr. Krishnaswami	Smart Modular Technologies Inc	Quality Engineering Research and Development for Complex Surface Mount Assemblies	50	\$16,737	\$4,352	\$21,089
Srihari, Dr. Krishnaswami	Innovation Associates	Developing Large-Scale Pharmacy Solutions Using Discrete Simulation, Data Analytics & optimization, and Systems Engineering Principles	50	\$102,664	\$18,131	\$120,796
Srihari, Dr. Krishnaswami	Raymond Corporation	Support for the Plan of Every Part (PFEP) in Materials Handling and Logistics	33.4	\$22,156	\$3,373	\$25,529
Srihari, Dr. Krishnaswami	Smart Modular Technologies Inc	Advanced Process Research and Development for Complex Surface Mount Devices Assemblies	50	\$17,391	\$3,151	\$20,542
Srihari, Dr. Krishnaswami	MaineHealth	Health Care Performance, Quality, and Safety Improvement at MaineHealth	33.3	\$14,090	\$3,060	\$17,150
Srihari, Dr. Krishnaswami	IBM Corporation	Business Intelligence and Analytics for Server Manufacturing	50	\$5,488	\$1,427	\$6,914

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Srihari, Dr. Krishnaswami	Penguin Computing Incorporated	Incoming Inspection and Supplier Quality Studies for the Assembly of Complex Data Server Systems	33.4	\$7,967	\$1,326	\$9,293
Srihari, Dr. Krishnaswami	Raymond Corporation	Supporting New Logistics Network and Transportation System Implementation	34	\$6,095	\$1,500	\$7,595
Srihari, Dr. Krishnaswami	United Health Services Hospitals Incorporated	Business Intelligence & Performance Improvement at UHSH	50	\$81,097	\$18,588	\$99,685
Srihari, Dr. Krishnaswami	Memorial Sloan Kettering Cancer Center	Amendment 3- Improving Quality, Safety, and Patient Flow and Outpatient Medication Management	50	\$26,473	\$6,042	\$32,515
Srihari, Dr. Krishnaswami	Bennett Distribution Services Limited Liability Corporation	Warehouse Operations Management and Analytics Research And Development	50	\$11,715	\$3,046	\$14,760
Srihari, Dr. Krishnaswami	Innovation Associates	Implementing Business Intelligence and Analytics to Large-Scale Pharmacy Automation Solution	50	\$20,168	\$5,244	\$25,412
Srihari, Dr. Krishnaswami	Cooper University Health Care	Redesign of Care Processes and Workflows to Facilitate the Implementation of a Customer Relationship Management System	33	\$6,690	\$1,739	\$8,429
Srihari, Dr. Krishnaswami	Sanmina Corporation	Implementation of Automation in a Surface Mount Technology Company	50	\$10,138	\$2,636	\$12,774
Srihari, Dr. Krishnaswami	Finger Lakes Community Health (FLCH)	Population Health and Operations Management for Sustainable and Comprehensive Quality Care	33.3	\$2,319	\$0	\$2,319
Srihari, Dr. Krishnaswami	Smart Modular Technologies Inc	Process Improvement for the assembly of complex data server systems	33.4	\$18,166	\$3,760	\$21,926
Srihari, Dr. Krishnaswami	Sanmina Corporation	Research in Electronics Manufacturing and Automation	50	\$2,534	\$659	\$3,193

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Srihari, Dr. Krishnaswami	Finger Lakes Community Health (FLCH)	Population Health and Operations Management for Sustainable and Comprehensive Quality Care	33.3	\$10,884	\$2,830	\$13,713
Srihari, Dr. Krishnaswami	Smart Modular Technologies Inc	Process Analysis and Improvement for the Assembly of Complex Data Server Systems	50	\$21,756	\$3,959	\$25,715
Srihari, Dr. Krishnaswami	Analog Devices, Incorporated	System in Package (SiP) Assembly Engineering Research and Development PO 45572734, 45631054	50	\$4,125	\$1,073	\$5,198
Srihari, Dr. Krishnaswami	EwingCole	Healthcare Design Research and Development for Operational Efficiency and Value Creation	50	\$15,766	\$3,849	\$19,614
Srihari, Dr. Krishnaswami	Christiana Care Health Services Incorporated	Organizational Excellence Support at Christiana Care	50	\$13,544	\$3,271	\$16,816
Srihari, Dr. Krishnaswami	Innovation Associates	Intelligent Pharmacy Solutions Using Simulation, Artificial Intelligence, Reliability, and Quotation	50	\$1,035	\$269	\$1,304
Srihari, Dr. Krishnaswami	Smart Modular Technologies Inc	Quality Engineering Research and Development for Complex Surface Mount Device Assemblies	100	\$3,010	\$783	\$3,792
Srihari, Dr. Krishnaswami	Raymond Corporation	Supporting New Logistic Network and Transportation System Implementation	50	\$8,403	\$2,185	\$10,588
Srihari, Dr. Krishnaswami	Jabil Circuit Incorporated	Medical/ Diagnostic Devices and Enterprise Systems	50	\$2,645	\$688	\$3,332
Srihari, Dr. Krishnaswami	Smart Modular Technologies Inc	Process Research and Development for Complex Surface Mount Device Assemblies	50	\$6,906	\$1,796	\$8,702
Srihari, Dr. Krishnaswami	United Health Services Hospitals Incorporated	Business Intelligence & Performance Improvement at UHS	50	\$23,246	\$6,044	\$29,290

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Srihari, Dr. Krishnaswami	Smart Modular Technologies Inc	Failure Analysis and Reliability Research For DRAM and Flash Memory Products	33.4	\$8,468	\$2,202	\$10,670
Srihari, Dr. Krishnaswami	Memorial Sloan Kettering Cancer Center	Improving Quality, Safety, and Patient Flow and Outpatient Medication Management	50	\$12,107	\$3,148	\$15,255
Srihari, Dr. Krishnaswami	Memorial Sloan Kettering Cancer Center	Improving Quality, Safety, and Patient Flow and Outpatient Medication Management	50	\$7,158	\$0	\$7,158
Srihari, Dr. Krishnaswami	General Electric Global Research	Research in Radio Frequency and Power Packaging Technologies	50	\$9,075	\$5,173	\$14,248
Srihari, Dr. Krishnaswami	General Electric Global Research	Research in Radio Frequency and Power Packaging Technologies	50	\$3,009	\$0	\$3,009
Srihari, Dr. Krishnaswami	Bennett Distribution Services Limited Liability Corporation	Warehouse Operations Management and Analytics Research and Development	50	\$14,983	\$3,895	\$18,878
Srihari, Dr. Krishnaswami	Bennett Distribution Services Limited Liability Corporation	Warehouse Operations Management and Analytics Research and Development	100	\$10,278	\$0	\$10,278
Srihari, Dr. Krishnaswami	Innovation Associates	Modernizing Symphony Standard to VB. Net Platform and Applying Business Intelligence	50	\$52,076	\$13,540	\$65,615
Srihari, Dr. Krishnaswami	Innovation Associates	Modernizing Symphony Standard to VB. Net Platform and Applying Business Intelligence	50	\$17,403	\$0	\$17,403
Srihari, Dr. Krishnaswami	Montefiore Hospital and Medical Center	Improving The Efficiency and Effectiveness of Healthcare Delivery	33.4	\$10,041	\$2,611	\$12,652
Srihari, Dr. Krishnaswami	Montefiore Hospital and Medical Center	Improving The Efficiency and Effectiveness of Healthcare Delivery	33.4	\$1,002	\$0	\$1,002

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Srihari, Dr. Krishnaswami	Smart Modular Technologies Inc	Reliability Analysis and Research for DRAM and Flash Memory Products	100	\$9,994	\$2,598	\$12,592
Wang, Dr. Yong	Raymond Corporation	Support for the Plan of Every Part (PFEP) in Materials Handling and Logistics	33.3	\$22,090	\$3,363	\$25,453
Wang, Dr. Yong	Finger Lakes Community Health (FLCH)	Population Health and Operations Management for Sustainable and Comprehensive Quality Care	33.3	\$2,319	\$0	\$2,319
Wang, Dr. Yong	MaineHealth	Health Care Performance, Quality, and Safety Improvement at MaineHealth	33.3	\$14,090	\$3,060	\$17,150
Wang, Dr. Yong	Raymond Corporation	Supporting New Logistics Network and Transportation System Implementation	33	\$5,916	\$1,456	\$7,372
Wang, Dr. Yong	Montefiore Hospital and Medical Center	Improving The Efficiency and Effectiveness of Healthcare Delivery	33.3	\$999	\$0	\$999
Wang, Dr. Yong	Montefiore Hospital and Medical Center	Improving The Efficiency and Effectiveness of Healthcare Delivery	33.3	\$10,011	\$2,603	\$12,614
Wang, Dr. Yong	Finger Lakes Community Health (FLCH)	Population Health and Operations Management for Sustainable and Comprehensive Quality Care	33.3	\$10,884	\$2,830	\$13,713
Won, Dr. Daehan	Nano-Bio Materials Consortium	Epifluidics for Stress Monitoring	30	\$225	\$128	\$353
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	\$14,963	\$8,529	\$23,492
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	\$2,616	\$0	\$2,616

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Won, Dr. Daehan	Analog Devices General Trias Incorporated	Demand Signal Analysis and Dispatching Process Automation in Semiconductor Manufacturing Project 1- ADI Demand Signal Analysis and Forecast Netting Process Improve	33	\$5,796	\$2,644	\$8,440
Won, Dr. Daehan	Analog Devices General Trias Incorporated	Demand Signal Analysis and Dispatching Process Automation in Semiconductor Manufacturing Project 2- ADGT Dispatching Process Automation	33	\$3,820	\$1,557	\$5,377
Won, Mr. Daehan	LiveOnNY	Performance Improvement of Clinical Practices and Operations Research 2019-2020	25	\$9,363	\$1,654	\$11,018
Yoon, Dr. Sangwon	Analog Devices General Trias Incorporated	Demand Signal Analysis and Dispatching Process Automation in Semiconductor Manufacturing Project 2- ADGT Dispatching Process Automation	33	\$3,820	\$1,557	\$5,377
Yoon, Dr. Sangwon	Raymond Corporation	Supporting New Logistics Network and Transportation System Implementation	33	\$5,916	\$1,456	\$7,372
Yoon, Dr. Sangwon	Innovation Associates	Developing Large-Scale Pharmacy Soutions Using Discrete Simulation, Data Analytics & optimization, and Systems Engineering Principles	50	\$102,664	\$18,131	\$120,796
Yoon, Dr. Sangwon	Raymond Corporation	Support for the Plan of Every Part (PFEP) in Materials Handling and Logistics	33.3	\$22,090	\$3,363	\$25,453
Yoon, Dr. Sangwon	Innovation Associates	Modernizing Symphony Standard to VB. Net Platform and Applying Business Intelligence	50	\$52,076	\$13,540	\$65,615
Yoon, Dr. Sangwon	LiveOnNY	Performance Improvement of Clinical Practices and Operations Research 2019-2020	25	\$9,363	\$1,654	\$11,018
Yoon, Dr. Sangwon	Innovation Associates	Implementing Business Intelligence and Analytics to Large-Scale Pharmacy Automation Solution	50	\$20,168	\$5,244	\$25,412

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Yoon, Dr. Sangwon	Bennett Distribution Services Limited Liability Corporation	Warehouse Operations Management and Analytics Research And Development	50	\$11,715	\$3,046	\$14,760
Yoon, Dr. Sangwon	Analog Devices General Trias Incorporated	Demand Signal Analysis and Dispatching Process Automation in Semiconductor Manufacturing Project 1- ADI Demand Signal Analysis and Forecast Netting Process Improve	33	\$5,796	\$2,644	\$8,440
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	\$2,616	\$0	\$2,616
Yoon, Dr. Sangwon	Innovation Associates	Modernizing Symphony Standard to VB. Net Platform and Applying Business Intelligence	50	\$17,403	\$0	\$17,403
Yoon, Dr. Sangwon	Bennett Distribution Services Limited Liability Corporation	Warehouse Operations Management and Analytics Research and Development	50	\$14,983	\$3,895	\$18,878
Yoon, Dr. Sangwon	Raymond Corporation	Supporting New Logistic Network and Transporation System Implementation	50	\$8,403	\$2,185	\$10,588
Yoon, Dr. Sangwon	Innovation Associates	Intelligent Pharmacy Solutions Using Simulation, Artificial Intelligence, Reliability, and Quotation	50	\$1,035	\$269	\$1,304
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	\$28,843	\$16,152	\$44,994
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	\$14,963	\$8,529	\$23,492
Zadehsabounchi, Ms. Nasim	Yale University	CT DPH Prescription Drug Overdose Prevention for States- Amendment 1	100	\$9,087	\$5,030	\$14,117

**Department Total: \$6,222,613**

**020 Watson School Deans Office**

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Ghose, Dr. Kanad	Villanova University	PHASE II- IUCRC Center for Energy-Smart Electronic Systems - Subaward 525877 FleischerBinghamton	50	\$13,669	\$7,792	\$21,461
Ghose, Dr. Kanad	Ashlawn Energy, LLC	Ashlawn Energy LLC Membership in ES2: 2019-2020	50	\$6,378	\$638	\$7,016
Ghose, Dr. Kanad	BAE Systems Controls Incorporated	BAE 2020 ES2 I/UCRC membership Agreement	50	\$3,886	\$389	\$4,275
Ghose, Dr. Kanad	Bloomberg LP	Industry/University Cooperative Research Center in Energy-Smart Electronic Systems Membership (ES2)	50	\$16,321	\$1,632	\$17,953
Ghose, Dr. Kanad	Futurewei Technologies	Futurewei Membership in I/UCRC ES2 (2018-2019)	50	\$7,523	\$752	\$8,275
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	\$16,803	\$9,578	\$26,381
Ghose, Dr. Kanad	National Science Foundation	Phase II IUCRC Binghamton University Center for Energy-Smart Electronic Systems (ES2)	50	\$13,127	\$7,482	\$20,609
Ghose, Dr. Kanad	Future Facilities Incorporated	Future Facilities ES2 Membership	50	\$5,618	\$562	\$6,180
Ghose, Dr. Kanad	Xilinx	Xilinx I/UCRC Membership 2017-2022	50	\$22,448	\$2,245	\$24,693
Majors, Ms. Monica	National Science Foundation	2015-2018 SUNY LSAMP Bridge to the Doctorate at Binghamton University	100	\$74,860	\$0	\$74,860
Majors, Ms. Monica	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	\$56,294	\$6,071	\$62,365



<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Majors, Ms. Monica	NYS Education Department	Science and Technology Entry Program STEP 2018-2019	50	\$3,501	\$200	\$3,701
Majors, Ms. Monica	NYS Education Department	2019-2020 Science and Technology Entry Program (STEP)	50	\$50,754	\$3,117	\$53,871
Park, Dr. Seungbae	Raymond Corporation	Raymond Corporation's Participating Membership in the IEEC 2018-2021	100	\$4,159	\$832	\$4,990
Park, Dr. Seungbae	Sanmina Corporation	2018-2021 Sanmina IEEC Membership	100	\$1,605	\$321	\$1,926
Park, Dr. Seungbae	Lockheed Martin Corporation	Lockheed Martin's IEEC Membership	100	\$49,873	\$9,975	\$59,847
Park, Dr. Seungbae	Pelitex Incorporated	Pelitex Inc IEEC Membership 18-19	100	\$1	\$0	\$1
Park, Dr. Seungbae	Menlo Microsystems Incorporated	Menlo Microsystems Participating Membership In the IEEC	100	\$4,180	\$836	\$5,016
Park, Dr. Seungbae	Knowles Electronics LLC	Knowles Participating Membership 2019-2020	100	\$30	\$6	\$36
Park, Dr. Seungbae	Ashlawn Energy, LLC	Ashlawn Energy 2019-2020 IEEC Membership	100	\$5,388	\$1,077	\$6,465
Park, Dr. Seungbae	MACOM Technical Solutions Incorporated	MACOM IEEC Membership	100	(\$4,149)	(\$830)	(\$4,979)
Park, Dr. Seungbae	Snake Creek Lasers LLC	Snake Creek Lasers dba Advanced Photonic Sciences IEEC Membership	100	\$4,167	\$833	\$5,000

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Park, Dr. Seungbae	L3Harris Technologies Incorporated	Harris Corp Participating Membership in IEEC	100	\$2,168	\$434	\$2,601
Park, Dr. Seungbae	Anaren Incorporated	Anaren INC Participating Membership in the IEEC 2019-2020	100	\$4,158	\$832	\$4,990
Park, Dr. Seungbae	Analog Devices, Incorporated	Analog Devices Full Membership in the IEEC 2019-2020	100	\$49,973	\$9,995	\$59,968
Park, Dr. Seungbae	Prismark Partners LLC	Prismark Partner's Participating Membership in the IEEC	100	\$17,544	\$3,509	\$21,052
Park, Dr. Seungbae	BAE Systems Controls Incorporated	BAE Full Membership in the IEEC 2018/2019/2020	100	\$52,210	\$10,442	\$62,652
Park, Dr. Seungbae	Amphenol Aerospace Operations	Amphenol 2019-2020 IEEC Membership	100	\$4,167	\$833	\$5,000
Park, Dr. Seungbae	i3 Electronics Incorporated	IEEC Membership 2015/2020 -i3 Electronics	100	\$473	\$94	\$567
Park, Dr. Seungbae	NYS Department of Economic Development	Center for Advanced Technology September 1, 2015-June 30, 2020	100	\$10,088	\$1,465	\$11,553
Park, Dr. Seungbae	NYS Department of Economic Development	Center for Advanced Technology September 1, 2015-June 30, 2020	100	\$756,534	\$94,814	\$851,348
Park, Dr. Seungbae	Advanced Semiconductor Engineering Incorporated	ASE's Membership in the IEEC, 2015-2020	100	\$50,146	\$10,029	\$60,175
Park, Dr. Seungbae	Unison Industries LLC	Unison Participating Membership 2017-2018, 2018-2019, 2019-2020, 2020-2021	100	\$4,004	\$801	\$4,805

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Park, Dr. Seungbae	Xilinx	IEEC Center Membership Agreement	100	\$41,915	\$8,383	\$50,298
Park, Dr. Seungbae	Dupont Speciality Products USA LLC	E.I. du Pont IEEC Membership	100	\$4,180	\$836	\$5,016
Park, Dr. Seungbae	Universal Instruments Corporation	Universal Instruments Annual Participating Membership IEEC	100	\$3,897	\$779	\$4,676
Park, Dr. Seungbae	Koh Young Technology Incorporated	Integrated Electronics Engineering Center Membership 2018-2021	100	\$19,570	\$3,914	\$23,484
Park, Dr. Seungbae	IBM Corporation	IEEC Membership- IBM 2018-2022 Agreement No 4913015695.1	100	\$63,253	\$12,651	\$75,903
Park, Dr. Seungbae	Corning Incorporated	IEEC Membership 2015-2020 - Corning Inc.	100	\$34,885	\$6,977	\$41,862
Poliks, Dr. Mark D	Corning Incorporated	Roll-to-Roll (R2R) Fabrication of Electronic Corning Willow Glass Surfaces	100	(\$400)	(\$220)	(\$620)
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match- NextFlex Project 2.3: Conformal Printing of Conductors and Dielectrics onto Complex 3D Surfaces	100	\$55,383	\$0	\$55,383
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match- NextFlex Project 2.8: Assessment and Optimization of the Reliability of Wearable Performance Monitors	100	\$34,019	\$17,564	\$51,583
Poliks, Dr. Mark D	Flex Tech Alliance	NextFlex Project 2.8 Assessment and Optimization of the Reliability of Wearable Performance Monitors	100	\$7,202	\$4,033	\$11,235
Sammakia, Dr. Bahgat G	Bloomberg LP	Industry/University Cooperative Research Center in Energy-Smart Electronic Systems Membership (ES2)	50	\$16,321	\$1,632	\$17,953

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence Small Scale Systems Integration and Packaging (S3IP) 2019-2020	100	\$21,426	\$3,214	\$24,639
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence Small Scale Systems Integration and Packaging (S3IP) 2019-2020	100	\$23,363	\$3,504	\$26,867
Sammakia, Dr. Bahgat G	National Science Foundation	Phase II IUCRC Binghamton University Center for Energy-Smart Electronic Systems (ES2)	50	\$13,127	\$7,482	\$20,609
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence Small Scale Systems Integration and Packaging (S3IP) 2019-2020	100	\$21,426	\$3,214	\$24,640
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence Small Scale Systems Integration and Packaging (S3IP) 2019-2020	100	\$319,509	\$46,776	\$366,285
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence Small Scale Systems Integration and Packaging (S3IP) 2019-2020	100	\$465,014	\$57,045	\$522,059
Sammakia, Dr. Bahgat G	Ashlawn Energy, LLC	Ashlawn Energy LLC Membership in ES2: 2019-2020	50	\$6,378	\$638	\$7,016
Sammakia, Dr. Bahgat G	Futurewei Technologies	Futurewei Membership in I/UCRC ES2 (2018-2019)	50	\$7,523	\$752	\$8,275
Sammakia, Dr. Bahgat G	BAE Systems Controls Incorporated	BAE 2020 ES2 I/UCRC membership Agreement	50	\$3,886	\$389	\$4,275
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence Small Scale Systems Integration and Packaging (S3IP) 2018-2019	100	\$362	\$54	\$417
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence Small Scale Systems Integration and Packaging (S3IP) 2018-2019	100	\$613	\$92	\$705

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence Small Scale Systems Integration and Packaging (S3IP) 2018-2019	100	\$362	\$54	\$417
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence Small Scale Systems Integration and Packaging (S3IP) 2018-2019	100	\$10,335	\$914	\$11,249
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence Small Scale Systems Integration and Packaging (S3IP) 2018-2019	100	\$18,872	\$1,016	\$19,888
Sammakia, Dr. Bahgat G	Villanova University	PHASE II- IUCRC Center for Energy-Smart Electronic Systems - Subaward 525877 FleischerBinghamton	50	\$13,669	\$7,792	\$21,461
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	\$16,803	\$9,578	\$26,381
Sammakia, Dr. Bahgat G	Future Facilities Incorporated	Future Facilities ES2 Membership	50	\$5,618	\$562	\$6,180
Sammakia, Dr. Bahgat G	Xilinx	Xilinx I/UCRC Membership 2017-2022	50	\$22,448	\$2,245	\$24,693
Srihari, Dr. Krishnaswami	Multiple Sponsors	Income Received Through Watson School Continuing Education for SSIE Activities	100	\$44,332	\$11,083	\$55,415
Srihari, Dr. Krishnaswami	Multiple Sponsors	Income from Watson School Continuing Education Miscellaneous Activities	100	\$55,428	\$13,857	\$69,285
Srihari, Dr. Krishnaswami	Multiple Sponsors	2019 Flight Simulation Course	100	\$22,908	\$5,727	\$28,635

**Department Total: \$3,100,812**

<b>Total:</b>	<b>\$46,856,468</b>
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