

Sponsored Programs Expenditure Report

For the period July 1, 2018 - June 30, 2019



<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
020 Acad Affairs Prov VP						
Imbruce, Ms. Valerie	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$21,690	\$0	\$21,690
Imbruce, Ms. Valerie	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$29,983	\$12,048	\$42,031
Imbruce, Ms. Valerie	US Department of Education	Ronald E. McNair Post-Baccalaureate Achievement 2017-2022	100	\$50,141	\$0	\$50,141
Imbruce, Ms. Valerie	US Department of Education	Ronald E. McNair Post-Baccalaureate Achievement 2017-2022	100	\$168,054	\$13,444	\$181,498
Imbruce, Ms. Valerie	National Endowment for the Humanities	Situating Chemical Elements in the Human World to Innovate Undergraduate Education	50	\$2,626	\$1,497	\$4,123
Nieman, Mr. Donald G	Empire State Development Corp	Development of Binghamton University's Global Center: A Nexus of International Activities on Campus	100	\$800,000	\$0	\$800,000
Pitarresi, Dr. James	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$21,690	\$0	\$21,690
Pitarresi, Dr. James	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$29,983	\$12,048	\$42,031
Stamp, Dr. Nancy E	National Science Foundation	GP-EXTRA: Freshman Research in Biogeochemistry for Engagement and Retention	20	\$15,653	\$7,827	\$23,480

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Withers, Ms. Michelle D	National Science Foundation	RCN-UBE: Networking STEM initiatives to enhance (NSITE) adoption of Evidence-Based Practices	100	\$754	\$430	\$1,184
Withers, Ms. Michelle D	National Science Foundation	RCN-UBE: Networking STEM initiatives to enhance (NSITE) adoption of Evidence-Based Practices	100	\$2,485	\$0	\$2,485
Department Total:				\$1,190,352		

020 Anthropology

de Smet, Mr. Timothy	Mississippi State University	Archaeological Testing and Reporting on the Nantahala National Forest	100	\$876	\$228	\$1,104
Digangi, Dr. Elizabeth Ann	US Department of Justice	Initiation of a Gunshot Wound Trauma Atlas from Cranial Bone	100	\$18,556	\$11,945	\$30,500
Digangi, Dr. Elizabeth Ann	US Department of Justice	Microbial Community Succession in Human and Pig Decomposition	100	\$47,105	\$0	\$47,105
Isbell, Dr. William H	National Science Foundation	Investigation into the Functioning of Early Cities	100	\$38,056	\$9,895	\$47,951
Isbell, Dr. William H	Wenner Gren Foundation for Anthropological Res	The Ayacucho Late Intermediate Period Defensibility Project: Dissertation Research Support: for Jessica Smeeks	100	\$19,955	\$0	\$19,955
McGuire, Dr. Randy	National Science Foundation	Conceptualizing Cultural Contact And Transmission Across International Boundaries	100	\$8,340	\$0	\$8,340
McGuire, Dr. Randy	National Science Foundation	Conceptualizing Cultural Contact And Transmission Across International Boundaries	100	\$80,461	\$20,680	\$101,141
Merriwether, Dr. David A	Multiple Sponsors	Income Account for Unrestricted Support for A. Merriwether	100	\$1,235	\$185	\$1,421

<u><i>Investigator</i></u>	<u><i>Sponsor Name</i></u>	<u><i>Award Title</i></u>	<u><i>% Credited to Investigator</i></u>	<u><i>Direct Costs Expended</i></u>	<u><i>F & A Expended</i></u>	<u><i>Total Expended</i></u>
Mixter, Dr. David	Rust Family Foundation	Building Kingship on the Preclassic Maya Frontier: Excavations at Actuncan, Belize	100	\$7,097	\$0	\$7,097
Sanger, Dr. Matthew	National Science Foundation	Collaborative Research: Examination of Sites on the Georgia Bight Coastline	100	\$13,190	\$3,429	\$16,620
Van Dyke, Dr. Ruth	National Science Foundation	Doctoral Dissertation Improvement Award: Alternate Models of Community Formation	100	\$1,517	\$394	\$1,912
Van Dyke, Dr. Ruth	National Geographic Society	Patricia Markert: National Geographic Grant: Tracing Alsatian Migration to South Texas: An Archaeological and Linguistic Study of Migration and Place	100	\$7,202	\$0	\$7,202
Van Dyke, Dr. Ruth	National Science Foundation	Doctoral Dissertation Improvement Grant: Dating Widespread Social Networks	100	\$9,520	\$2,475	\$11,995
Wander, Dr. Katherine	Leakey Foundation	Trade-Offs in Milk Immunity	100	\$6,268	\$0	\$6,268
Wander, Dr. Katherine	National Science Foundation	Human adaption in high-pathogen enviroments: iron, infection, and child growth and development	100	\$3,021	\$1,722	\$4,743
Wilson, Dr. Thomas M.	National Science Foundation	Doctoral Dissertation Research: International Constraints and Informal Trade Networks	100	\$19,469	\$5,062	\$24,531
Wilson, Dr. Thomas M.	Rochester Institute of Technology	Rockwell Kent and Early 1930's Greenland: A Comparative View of Environmental, Social and Cultural Change in Contemporary Greenland - RIT Federal Award No: PLR-1524176	100	\$3,988	\$917	\$4,905

Department Total: \$342,788

020 Art History

Smart, Dr. Pamela	National Endowment for the Humanities	Situating Chemical Elements in the Human World to Innovate Undergraduate Education	50	\$2,626	\$1,497	\$4,123
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			Department Total:	\$4,123		
020 Arts and Sciences Dean						
Holahan, Dr. Robert A	National Science Foundation	Collaborative Research: Technological Shocks and Institutional Effectiveness under Heterogeneous Risk	100	\$11,046	\$6,296	\$17,342
Massey, Dr. Sean	NYS Department of Health	Lesbian and Gay Family Building Project	50	\$12,439	\$2,488	\$14,927
Massey, Dr. Sean	NYS Department of Health	Lesbian and Gay Family Building Project 7 Month CFA	50	\$33,795	\$6,759	\$40,554
Silberstein, Ms. Dara	NYS Department of Health	Lesbian and Gay Family Building Project	50	\$12,439	\$2,488	\$14,927
Silberstein, Ms. Dara	NYS Department of Health	Lesbian and Gay Family Building Project 7 Month CFA	50	\$33,795	\$6,759	\$40,554
			Department Total:	\$128,304		
020 Asian Asian-American Studies						
Chaffee, Dr. John W	Multiple Sponsors	AAAS Activities-	100	\$500	\$50	\$550
Chen, Dr. Zu-yan	Confucius Institute of China	2017 Confucius Institute of Chinese Opera	100	\$10	\$0	\$10
Chen, Dr. Zu-yan	Confucius Institute of China	2018 Confucius Institute of Chinese Opera	100	\$118,820	\$0	\$118,820
Cho, Dr. Sungdai	Cornell University	Korean at the Nexus of the Northeast Asia Linguistic Area	100	\$167,255	\$16,726	\$183,981
			Department Total:	\$303,361		

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
020 Biological Sciences						
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	\$12,154	\$6,849	\$19,002
Fiumera, Dr. Anthony	National Institute of General Medical Sciences	Using Natural Variation to Map Mitochondrial-Nuclear Interactions in Yeast	25	\$15,454	\$8,500	\$23,953
Fiumera, Dr. Heather	National Institute of General Medical Sciences	Using Natural Variation to Map Mitochondrial-Nuclear Interactions in Yeast	50	\$30,908	\$16,999	\$47,907
Fiumera, Dr. Heather	National Science Foundation	Dissertation Research: Mitochondrial Epistasis in Yeast	100	\$2,227	\$1,225	\$3,452
Marques, Dr. Claudia	National Inst of Environmental Health Sciences	Engineering a Small Intestinal Microbiome To Evaluate Food Additive Exposure	50	\$73,438	\$41,052	\$114,490
Masek, Dr. Pavel	Florida Atlantic University	Localization of Dopamine Function in Aversive Taste Memory AWD000826 TAG003749	100	\$15,359	\$8,447	\$23,806
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	\$24,574	\$14,007	\$38,581
Musselman, Dr. Laura	American Heart Association Western State Affiliate	Identification of Lipotoxins Affecting Cardiac Physiology in the Face of Caloric Overload	100	\$23,140	\$2,314	\$25,454
Musselman, Dr. Laura	American Heart Association Western State Affiliate	Identification of Lipotoxins Affecting Cardiac Physiology in the Face of Caloric Overload	100	\$31,957	\$3,196	\$35,153
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	\$56,717	\$31,960	\$88,677

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Powell, Mr. Thomas	National Geographic Society	Cynipid parasitoid interactions in the hotspot of diversity: cryptic associations in the context of global change	50	\$3,427	\$0	\$3,427
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	\$71,084	\$40,518	\$111,602
Prior, Ms. Kirsten	National Geographic Society	Cynipid parasitoid interactions in the hotspot of diversity: cryptic associations in the context of global change	50	\$3,427	\$0	\$3,427
Sauer, Dr. Karin	National Institute of Allergy & Infectious Disease	Role of PA4878 in biofilm antimicrobial resistance	100	\$227,254	\$114,031	\$341,284
Sauer, Dr. Karin	National Institute of Allergy & Infectious Disease	Pyruvate Depletion as Adjunctive Therapy for the Treatment of Biofilm-Related Infections	50	\$34,091	\$4,782	\$38,873
Sauer, Dr. Karin	Syracuse University	A Role of Material Stiffness in Ophthalmic Biofilm Formation and Virulence of Pseudomonas aeruginosa - Amendment #1	100	\$1,442	\$808	\$2,250
Schertzer, Dr. Jeffrey W	National Institute of Allergy & Infectious Disease	Evaluating the Bilayer-Couple Model of Outer Membrane Vesicle Biogenesis Using Novel Asymmetric Membrane Templates	34	\$14,214	\$7,641	\$21,856
Schertzer, Dr. Jeffrey W	National Science Foundation	MRI: Development of a Microfluidic Instrument for High-throughout Production of Asymmetric Vesicles to Support Membrane Biology Research	50	\$859	\$473	\$1,332
Sobel, Dr. James	National Science Foundation	Collaborative Research: ROL: Rapid Evolution of Reproductive Isolation via Hybrid Seed Lethality in Mimulus	100	\$2,940	\$1,676	\$4,616
Stamp, Dr. Nancy E	Howard Hughes Medical Institute	Howard Hughes Support - Freshman Research Immersion (FRI) Models	50	\$122,659	\$0	\$122,659
Wilson, Dr. David Sloan	Let Grow Incorporated	Free Play in an After-School Program	50	\$245	\$24	\$269

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Withers, Ms. Michelle D	National Science Foundation	Mobile Summer Institutes: Creating Points of Transformation in Post-Secondary STEM Education	100	\$12,855	\$7,327	\$20,183
Zhu, Dr. Weixing	National Science Foundation	GP-EXTRA: Freshman Research in Biogeochemistry for Engagement and Retention	20	\$15,653	\$7,827	\$23,480

Department Total: \$1,115,732

020 Biomedical Engineering

Doiron, Dr. Amber L	National Institute of Allergy & Infectious Disease	Pyruvate Depletion as Adjunctive Therapy for the Treatment of Biofilm-Related Infections	50	\$34,091	\$4,782	\$38,873
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	\$78,649	\$37,463	\$116,112
German, Dr. Guy K	National Science Foundation	I-Corps: Pressure Ulcer Prevention Pad	100	\$23,311	\$2,590	\$25,901
German, Dr. Guy K	SCA Hygiene Products AB	Effects of ageing and prolonged exposure to incontinent environments on the structure, function and mechanics of human stratum corneum	100	\$21,876	\$11,777	\$33,653
Lu, Dr. Fake (Frank)	National Institutes of Health	Stimulated Raman imaging for label-free histology to guide brain tumor surgery	100	\$68,240	\$8,013	\$76,252
Lu, Dr. Fake (Frank)	National Institutes of Health	Stimulated Raman imaging for label-free histology to guide brain tumor surgery	100	\$129,243	\$59,804	\$189,046
Mahler, Dr. Gretchen	National Science Foundation	Endothelial to Mesenchymal Transformation Mechanobiology	50	\$1,897	\$0	\$1,897
Mahler, Dr. Gretchen	Alternatives Research & Development Foundation	Engineering a kidney glomerulus and proximal tube on a chip	100	\$26,966	\$2,697	\$29,662

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Mahler, Dr. Gretchen	National Inst of Environmental Health Sciences	Engineering a Small Intestinal Microbiome To Evaluate Food Additive Exposure	50	\$73,438	\$41,052	\$114,490
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	\$4,450	\$2,537	\$6,987
Ye, Dr. Kaiming	National Science Foundation	ICorps: Development of Genome Edited Cancer Vaccines	100	\$2,231	\$248	\$2,479
Ye, Dr. Kaiming	National Science Foundation	2017 Inaugural Advanced Biomanufacturing Conference	100	\$8,600	\$403	\$9,004
Ye, Dr. Kaiming	National Science Foundation	REU Site: Undergraduate Research Experience in Biomedical Translational Science and Technology Development	100	\$13,237	\$7,545	\$20,782
Ye, Dr. Kaiming	National Science Foundation	REU Site: Undergraduate Research Experience in Biomedical Translational Science and Technology Development	100	\$65,566	\$0	\$65,566

Department Total: \$730,704

020 CCPA Deans Office

Anderson, Dr. Elizabeth M.	Conrad and Virginia Klee Foundation	Promise Zone to Pilot an Early Childhood Program within BU Community Schools at the Harpursville Central School District	100	\$1,333	\$0	\$1,333
Bronstein, Dr. Laura R	NYS Education Department	Community Schools Regional Technical Assistance Center (TAC)	100	\$212,384	\$48,749	\$261,133
Bronstein, Dr. Laura R	Broome County Department of Mental Health	2018 Mental Health Schools Project Grant	100	\$164,463	\$21,380	\$185,843
Bronstein, Dr. Laura R	Conrad and Virginia Klee Foundation	Community Engagement with Families in the North Side of Binghamton	50	\$33,751	\$0	\$33,751

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Bronstein, Dr. Laura R	Windsor Central School District	Windsor Promise Zone	100	\$102	\$1,501	\$1,603
Bronstein, Dr. Laura R	Multiple Sponsors	CCPA Miscellaneous Income	100	\$285,421	\$42,813	\$328,234
Bronstein, Dr. Laura R	Multiple Sponsors	Continuing Education Activities	100	\$29,719	\$4,458	\$34,177
Edmunds, Ms. Tara	United Way of Broome County Inc	Community Engagement with Families in the North Side of Binghamton	100	\$4,221	\$846	\$5,067
Kida, Ms. LuAnn F	Broome County Youth Bureau	2019 Summer Zones of Broome County Promise Zones	100	\$1,284	\$128	\$1,413
Kida, Ms. LuAnn F	NYS Parenting Education Partnership	Parent Cafes of the Broome County Promise Zone	100	\$1,587	\$413	\$2,000
Kida, Ms. LuAnn F	United Way of Broome County Inc	Community Engagement with Families on the North Side of Binghamton	100	\$3,791	\$569	\$4,360
Kida, Ms. LuAnn F	United Way of Broome County Inc	Community School Capacity Building Through Professional Development	100	\$5,696	\$854	\$6,551
Kida, Ms. LuAnn F	Broome County Youth Bureau	Summer Zones of Broome County Promise Zones 2018	100	\$9,091	\$909	\$10,000
Kida, Ms. LuAnn F	Conrad and Virginia Klee Foundation	Community Engagement with Families in the North Side of Binghamton	50	\$33,751	\$0	\$33,751
Mastroleo, Dr. Nadine	SiMmersion	Simulated Clinician Assessment for Cognitive Behavioral Therapy Skills R01MH112625	33.4	\$13,613	\$7,623	\$21,236

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Mastroleo, Dr. Nadine	Brown University	Enhancing the Efficacy and Duration of a Brief Alcohol Intervention Using Self-Affirmation-1R01AA025643-01	100	\$69,673	\$32,501	\$102,174
Mastroleo, Dr. Nadine	Brown University	Enhancing the Efficacy and Duration of a Brief Alcohol Intervention Using Self-Affirmation-1R01AA025643-01	100	\$19,114	\$10,704	\$29,817
Mastroleo, Dr. Nadine	Brown University	Behavioral Science and Biostatistics Resource Code for Alcohol-HIV Research Federal Award 5U24AA022003-06	100	\$5,260	\$2,893	\$8,153
Mastroleo, Dr. Nadine	Brown University	Behavioral Science and Biostatistics Resource Code for Alcohol-HIV Research Federal Award 5U24AA022003-06	100	\$4,197	\$2,309	\$6,506
Mastroleo, Dr. Nadine	National Institute for Alcohol Abuse & Alcoholism	An Integrated Brief Alcohol and PTSD Intervention for Veterans in Primary Care	50	\$35,227	\$17,073	\$52,300
Schaffer, Mr. David	Griffiss Institute	Exploration of Machine Learning for Skill Acquisition	100	\$21,424	\$11,685	\$33,110
Schaffer, Mr. David	National Institutes of Health	Perivascular Transport of Solutes from the Brain	33	\$62,050	\$10,479	\$72,529

Department Total: \$1,235,041

020 CCPA Human Development

Wilton, Dr. Leo	New York Blood Center	Testing an Intervention to Increase HIV Self-Testing Among Young, Black MSM-- NIH000305	100	\$3,897	\$2,144	\$6,041
Wilton, Dr. Leo	New York University	Using MOST to Optimize an HIV Continuum Intervention for Vulnerable Populations NIH Award R01DA040480	100	\$34,093	\$18,751	\$52,845

Department Total: \$58,886

020 CCPA Public Administration

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Rubaii, Dr. Nadia	Spencer Foundation	Measuring the Effectiveness of University Efforts to Promote Students' Intercultural Competencies: A Structured Dialogue to Improve Assessment of Alternative Internationalization Strategies	100	\$7,021	\$0	\$7,021
				Department Total:	\$7,021	
020 CCPA Social Work						
Bransford, Dr. Cassandra L.	University of Texas at Austin	National Homelessness Social Work Initiative	100	\$2,857	\$143	\$3,000
Gunn, Ms. Alana	Fordham University	HIV/ Drug Abuse Prevention Ethics Training Institute	100	\$850	\$68	\$918
Rizzo, Dr. Victoria	SiMmersion	Simulated Clinician Assessment for Cognitive Behavioral Therapy Skills R01MH112625	33.3	\$13,572	\$7,600	\$21,172
				Department Total:	\$25,090	
020 CCPA Student Affairs						
Smith, Ms. Natesha	American College Personnel Association	Engaging Cross-Cultural Impressions: an Exploration of Student Affairs Practices in the Gulf Region	100	\$6,404	\$0	\$6,404
				Department Total:	\$6,404	
020 CCPA Teaching Learning Educ Leadership						
Burch, Dr. Connie B	NYS Education Department	Teacher Leadership Quality Partnership (TLQP) Professional Development Program 2017-2018	50	\$111,114	\$7,074	\$118,188
Burch, Dr. Paul	NYS Education Department	Teacher Leadership Quality Partnership (TLQP) Professional Development Program 2017-2018	50	\$111,114	\$7,074	\$118,188
Humphrey, Ms. Amy L.	NYS Education Department	Liberty Partnerships Program 2018-2019	100	\$325,344	\$26,027	\$351,371

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Humphrey, Ms. Amy L.	NYS Education Department	Liberty Partnership Program 2017/2018	100	\$93,663	\$7,493	\$101,156
Humphrey, Ms. Amy L.	Multiple Sponsors	Income Account for Liberty Partnership Activities	100	\$74,292	\$5,943	\$80,235
Laats, Dr. Adam	University of Connecticut	Intellectual Humility in Public Discourse	100	\$18,800	\$0	\$18,800
Malin, Dr. Jo E.	US Department of Education	Talent Search Program 2017-2021	100	\$289,468	\$23,157	\$312,625
Rozalski, Dr. Michael E.	NEA Foundation	Student Achievement Grant 18-19	100	\$5,000	\$0	\$5,000
Sandoval, Dr. Pamela	Let Grow Incorporated	Free Play in an After-School Program	50	\$245	\$24	\$269
Simpson, Ms. Amber	National Science Foundation	Collabarative Research: Engineering a Community Family Partnership: Developing a Program Aimed at Making & Design Practices in Home Enviroments	100	\$2,578	\$1,469	\$4,047
Department Total:				\$1,109,879		

020 Chemistry

An, Dr. Ming	National Science Foundation	I-Corps: pH-sensitive Prodrug for Targeted Cancer Chemotherapy	100	\$14,627	\$1,625	\$16,252
An, Dr. Ming	National Institute of General Medical Sciences	Rational Design of pH-Low Insertion Peptides for Cargo Delivery	70	\$55,764	\$31,785	\$87,550
Bane Tuttle, Dr. Susan B	National Cancer Institute	Coupling through Boron: Fast, Tunable, and Versatile Bioorthogonal Reactions Producing Boron-Containing Heterocycles	100	\$92,229	\$50,967	\$143,196

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Callahan, Dr. Brian P	Rensselaer Polytechnic Institute	Structural Mechanisms of Hedgehog Autoprocessing in Physiology and Disease PTE 1R01CA206592-01-A1 - Subaward A12815	100	\$66,960	\$36,574	\$103,534
Dimitrov, Mr. Nikolay	National Science Foundation	All-Electrochemical Synthesis of nanoporous Metal Based Catalysts for Energy Applications and Environmental Pollution Remedy	100	\$8,657	\$4,762	\$13,419
Fang, Dr. Jiye	American Chemical Society	Ceria Facet Dependent Oxidative Coupling of Methane Towards C2 Products	100	\$29,447	\$0	\$29,447
Fang, Dr. Jiye	Quansor Corporation	Quansor Water Softener Controls Project	50	\$3,071	\$1,750	\$4,821
Fang, Dr. Jiye	National Science Foundation	Manipulating and Exploiting Lattice Strain as a Novel Platform to Tune the Surface Work Function of Matallic Nanocatalysts	100	\$47,855	\$25,663	\$73,517
Fang, Dr. Jiye	Cornell University	Development of Advanced ORR/ HOR Nano-Electrocatalysts in Alkaline Media Federal Award no DE-SC0019445	100	\$43,473	\$24,780	\$68,253
Fang, Dr. Jiye	National Science Foundation	Scholarships and Nanofabrication Experience: Successful Transitions from Community College to Graduate School	25	\$3,196	\$1,758	\$4,954
Fang, Dr. Jiye	Mitsui Mining and Smelting Company Limited	Master Material Transfer and Confidential Disclosure Agreement	100	\$783	\$196	\$978
Fang, Dr. Jiye	National Science Foundation	Scholarships and Nanofabrication Experience: Successful Transitions from Community College to Graduate School	25	\$13,806	\$0	\$13,806
Grewer, Dr. Christof	Icahn School of Medicine at Mount Sinai	Substrate Specificity Determinants in Cancer-Related Solute Carrier Transporters	100	\$11,561	\$6,358	\$17,919
Jones, Dr. Wayne E	National Science Foundation	Scholarships and Nanofabrication Experience: Successful Transitions from Community College to Graduate School	25	\$3,196	\$1,758	\$4,954

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Jones, Dr. Wayne E	National Science Foundation	Scholarships and Nanofabrication Experience: Successful Transitions from Community College to Graduate School	25	\$13,806	\$0	\$13,806
Jones, Dr. Wayne E	US Department of Education	Multidisciplinary GAANN in Smart Energy Materials	40	\$41,171	\$0	\$41,171
Puja, Ms. Goyal	Research Corporation for Science Advancement	Proton Coupled Electron Transfer in Batteries on Quinone Crystals: Integrated Experimental And Theoretical	100	\$4,736	\$0	\$4,736
Qiang, Mr. Wei	National Institute of General Medical Sciences	Molecular mechanisms of membrane disruption induced by early-stage aggregation of beta-amyloid peptides	100	\$132,627	\$64,758	\$197,385
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	\$65,592	\$37,388	\$102,980
Rozners, Mr. Eriks	National Science Foundation	Dynamics and Energetics of Secondary-Active Glutamate Transport	100	\$105,360	\$53,875	\$159,234
Rozners, Mr. Eriks	National Institute of General Medical Sciences	Amide-Modified RNA: Synthesis, Structure and Potential for RNA Interference	100	\$119,261	\$24,711	\$143,972
Rozners, Mr. Eriks	National Institute of General Medical Sciences	Chemical approaches to control the function of regulatory RNAs	100	\$53,461	\$30,473	\$83,934
Rozners, Mr. Eriks	National Science Foundation	Dynamics and Energetics of Secondary-Active Glutamate Transport	100	\$2,987	\$0	\$2,987
Rozners, Mr. Eriks	Binghamton City School District	2018 Go Green Summer Institute	100	\$54,826	\$31,074	\$85,900
Rozners, Mr. Eriks	Binghamton City School District	2019 Go Green Institute at Binghamton University	100	\$8,032	\$4,578	\$12,611

<u><i>Investigator</i></u>	<u><i>Sponsor Name</i></u>	<u><i>Award Title</i></u>	<u><i>% Credited to Investigator</i></u>	<u><i>Direct Costs Expended</i></u>	<u><i>F & A Expended</i></u>	<u><i>Total Expended</i></u>
Sadik, Dr. Omowunmi A	National Science Foundation	I-Corps: Nanosensors for rapid detection of food pathogens	100	\$5,896	\$655	\$6,551
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	\$154,924	\$0	\$154,924
Solmaz, Ms. Sozanne	National Institute of General Medical Sciences	Cell cycle-specific recognition of the cell nucleus as cargo for dynein-dependent transport	100	\$90,021	\$50,236	\$140,257
Vetticatt, Dr. Mathew	National Institutes of Health	Novel Concepts and Mechanistic Probes in Catalysis	100	\$99,711	\$55,051	\$154,762
Vetticatt, Dr. Mathew	National Institutes of Health	Novel Concepts and Mechanistic Probes in Catalysis	100	\$117,152	\$66,239	\$183,391
Whittingham, Dr. M Stanley	US Department of Energy	High Energy Density Lithium Battery	100	\$1,541	\$848	\$2,389
Whittingham, Dr. M Stanley	US Department of Energy	Northeast Center for Chemical Energy Storage(NECCES)	89.24	\$1,084,695	\$196,371	\$1,281,066
Whittingham, Dr. M Stanley	US Department of Energy	Northeast Center for Chemical Energy Storage(NECCES)	100	\$534,095	\$52,576	\$586,672
Whittingham, Dr. M Stanley	US Department of Energy	Battery500 Consortium - Development of High-Capacity Cathodes and Robust Solid Electrolytes	100	\$284,826	\$161,275	\$446,101
Whittingham, Dr. M Stanley	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$29,983	\$12,048	\$42,031
Whittingham, Dr. M Stanley	US Department of Education	Multidisciplinary GAANN in Smart Energy Materials	40	\$41,171	\$0	\$41,171

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Whittingham, Dr. M Stanley	NYS Department of Economic Development	NorthEast Center for Chemical Energy Storage (NECCES)	100	\$38,264	\$0	\$38,264
Whittingham, Dr. M Stanley	US Department of Energy	Northeast Center for Chemical Energy Storage(NECCES)	89.24	\$0	\$12,717	\$12,717
Whittingham, Dr. M Stanley	Materials Research Society	Binghamton Material Science Outreach Program (MSOP) 2019	100	\$240	\$0	\$240
Whittingham, Dr. M Stanley	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$21,690	\$0	\$21,690
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	\$18,366	\$9,582	\$27,949
Zhong, Dr. Chuan Jian	National Science Foundation	Exploring Synergy of Composition-Tunable Nanoalloys for Catalytic Oxidation of Hydrocarbons	100	\$39,990	\$21,735	\$61,725
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	\$25,001	\$13,174	\$38,175
Zhong, Dr. Chuan Jian	National Science Foundation	I-Corps: Air Stable and Low Cost Metal Inks for Wearable Electronics and Sensors	100	\$24,943	\$2,771	\$27,714
Zhong, Dr. Chuan Jian	Mecotech Incorporated	Unrestricted Research	100	\$21,840	\$3,276	\$25,116
Zhong, Dr. Chuan Jian	Central Michigan University	Element Specific Atomic Arrangement of Nanosized Catalysts in a Prepared and Active State	100	\$71,786	\$39,223	\$111,009
Zhong, Dr. Chuan Jian	National Science Foundation	I-Corps: Copper-Based Nanowire Pastes for Solar Panels	100	\$25,139	\$2,793	\$27,931

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
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Department Total: \$4,863,159

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	\$2,791	\$1,591	\$4,381
Chiu, Dr. Kenneth	Cary Institute of Ecosystem Studies	Building Analytical, Synthesis, and Human Network Skills Needed for Macrosystem Science	100	\$5,250	\$1,365	\$6,615
Chiu, Dr. Kenneth	National Institute of General Medical Sciences	Using Natural Variation to Map Mitochondrial-Nuclear Interactions in Yeast	25	\$15,454	\$8,500	\$23,953
Ghose, Dr. Kanad	Empire State Development Corp	Match to Improved ECG Monitor with Capacitive Electrodes	30	\$4,610	\$2,628	\$7,238
Ghose, Dr. Kanad	Lockheed Martin Corporation	Supplier Development Efforts for the DARPA SSITH Program	60	\$208,590	\$112,081	\$320,671
Ghose, Dr. Kanad	Flex Tech Alliance	Improved ECG Monitor with Capacitive Electrodes	30	\$4,620	\$2,633	\$7,253
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	\$1,914	\$1,091	\$3,005
Ghose, Dr. Kanad	National Science Foundation	Collaborative Center: I/UCRC in Center for Energy-Smart Electronic Systems (ES2)	50	\$59,315	\$4,246	\$63,562
Ghose, Dr. Kanad	Multiple Sponsors	ES2 IAB Donation Multiple Sponsors	33	\$13	\$1	\$14
Ghose, Dr. Kanad	Huawei Technologies Company Limited	Huawei Corporation's Membership in the I/UCRC for Energy-Smart Electronic Systems	33	\$2	\$0	\$2

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Ghose, Dr. Kanad	National Science Foundation	Collaborative Center: I/UCRC in Center for Energy-Smart Electronic Systems (ES2)	33	\$0	\$0	\$0
Ghose, Dr. Kanad	National Science Foundation	Collaborative Center: I/UCRC in Center for Energy-Smart Electronic Systems (ES2)	50	\$1,670	\$918	\$2,588
Gopalan, Dr. Kartik	ITRI International Incorporated	Lightweight Hypervisor-Level Mechanisms for Guest Security and Reliability	100	\$15,546	\$8,861	\$24,407
Gopalan, Dr. Kartik	National Science Foundation	CSR:Small: Multi-hypervisor Virtual Machines-Enabling an Ecosystem of Hypervisors in the Cloud	100	\$91,547	\$47,258	\$138,805
Gopalan, Dr. Kartik	National Science Foundation	CSR:Small: Multi-hypervisor Virtual Machines-Enabling an Ecosystem of Hypervisors in the Cloud	100	\$6,000	\$0	\$6,000
Gopalan, Dr. Kartik	ITRI International Incorporated	Lightweight Hypervisor-Level Mechanisms for Guest Security and Reliability	100	\$3,449	\$1,931	\$5,380
Govindaraju, Dr. Madhusudhan	Multiple Sponsors	Certificate Course to allow students to observe how Computer Science research and projects are conducted	100	\$4,233	\$1,058	\$5,291
Govindaraju, Dr. Madhusudhan	National Science Foundation	S12-SSE: Expanding the Scope of Materials Modeling with Electron Phonon Wannier (EPW) Software	100	\$40,046	\$21,750	\$61,796
Govindaraju, Dr. Madhusudhan	IBM Corporation	IBM Faculty Award for Madhusudhan Govindaraju	100	\$2,510	\$0	\$2,510
Kang, Dr. Kyoung-Don	National Science Foundation	CSR: Small: Timely Power-Aware Data Managment in Embedded Systems	100	\$62,406	\$33,285	\$95,691
Liu, Dr. Yao	National Science Foundation	CSR: Small: A Unified Approach Toward User-specific Improvements of Quality of Experience for Video Streaming	100	\$4,000	\$0	\$4,000

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Liu, Dr. Yao	National Science Foundation	CSR: Small: A Unified Approach Toward User-specific Improvements of Quality of Experience for Video Streaming	100	\$103,478	\$53,279	\$156,757
Liu, Dr. Yu David	National Science Foundation	SHF: Small: Lazy Data Structures for Data-Intensive Applications	100	\$16,997	\$9,688	\$26,685
Liu, Dr. Yu David	National Science Foundation	SHF: Small Green Parallel Language Systems	100	\$117,078	\$54,727	\$171,805
Liu, Dr. Yu David	National Science Foundation	CRI: CI-New: Collaborative Research: Extensible, Software Enabled Unmanned Aerial Vehicles	100	\$41,379	\$20,166	\$61,544
Lu, Mr. Hui	Griffiss Institute	Enabling a Secure Embedded Cloud Infrastructure	100	\$1,785	\$1,017	\$2,802
Meng, Dr. Weiyi	University of Illinois at Chicago	Text Mining Pipeline to Accelerate Systematic Reviews in Evidence-Based Medicine Prime Award 2R01LM010817-05A1	100	\$13,328	\$4,030	\$17,358
Meng, Dr. Weiyi	National Science Foundation	BIGDATA: Collaborative Research: F: Streaming Architecture for Continuous Entity Linking in Social Media	100	\$29,493	\$15,182	\$44,675
Miller, Dr. Timothy N	National Science Foundation	CAREER: Sustaining Moore's Law Through Introspective Computing: A Comprehensive System For Reliability and Energy Optimization in Modern Computing Devices	100	\$30,428	\$16,735	\$47,163
Ponomarev, Mr. Dmitry V	National Science Foundation	TWC:Small:Side Channels Through Lower-Level Caches: Attacks, Defenses and Security Metrics	100	\$5,310	\$0	\$5,310
Ponomarev, Mr. Dmitry V	Qatar University	Architectural Approaches for Protecting Against Compromised System Software	100	\$4,642	\$928	\$5,571
Ponomarev, Mr. Dmitry V	National Science Foundation	TWC: Small: Collaborative: Practical Hardware-Assisted Always-On Malware Detection	50	\$22,707	\$12,235	\$34,941

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
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	\$24,069	\$12,730	\$36,799
Ponomarev, Mr. Dmitry V	Qatar University	Architectural Approaches for Protecting Against Compromised System Software	100	\$38,991	\$7,798	\$46,789
Ponomarev, Mr. Dmitry V	National Science Foundation	TWC:Small:Side Channels Through Lower-Level Caches: Attacks, Defenses and Security Metrics	100	\$48,617	\$13,445	\$62,062
Prakash, Dr. Aravind	US Navy Office of Naval Research	ALBER: A Backward-Compatible Late-Stage Debloating Platform for Mobile and Desktop Environments	100	\$76,280	\$42,941	\$119,221
Prakash, Dr. Aravind	Lockheed Martin Corporation	Supplier Development Efforts for the DARPA SSITH Program	30	\$104,295	\$56,041	\$160,336
Prakash, Dr. Aravind	National Science Foundation	CRII: SaTC: Robust and Platform Independent Recovery of Design Features from C++ Binaries	100	\$27,950	\$13,296	\$41,246
Sha, Mr. Mo	National Science Foundation	CRII: NeTS: Self-Adaption in Industrial Wireless Sensor-Actuator Networks	100	\$57,656	\$28,927	\$86,583
Wang, Dr. Yan	National Science Foundation	CRII: NeTS: Ubiquitous Sensing based Location-aware Driving Safety System	100	\$28,387	\$15,613	\$44,000
Yan, Dr. Guanhua	University of Illinois Urbana Champaign	LEFT: an LTE Oriented Emulation Instrumented Fuzzing Testbed	100	\$3,321	\$1,860	\$5,180
Yan, Dr. Guanhua	National Science Foundation	TWC: Small: A Moving Target Approach to Enhancing Machine Learning-Based Malware Defense	100	\$31,333	\$17,546	\$48,879
Yan, Dr. Guanhua	University of Illinois Urbana Champaign	LEFT: an LTE Oriented Emulation Instrumented Fuzzing Testbed	100	\$70,169	\$38,382	\$108,552

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Yan, Dr. Guanhua	National Science Foundation	CICI: RSARC: Infrastructure support for securing large-scale scientific workflows	50	\$115,132	\$14,513	\$129,645
Yang, Dr. Ping	National Science Foundation	CICI: RSARC: Infrastructure support for securing large-scale scientific workflows	50	\$115,132	\$14,513	\$129,645
Yin, Dr. Lijun	National Science Foundation	CI-SUSTAIN: Collaborative Research: Extending a Large Multimodal Corpus of Spontaneous Behavior for Automated Emotion Analysis	100	\$71,758	\$40,185	\$111,943
Yu, Dr. Lei	National Science Foundation	TWC: Small: Collaborative: Practical Hardware-Assisted Always-On Malware Detection	50	\$22,707	\$12,235	\$34,941
Zhang, Dr. Yifan	National Science Foundation	NSF Student Travel Grant for 2018 ACM/IEEE Symposium on Edge Computing	100	\$19,741	\$0	\$19,741
Zhang, Dr. Yifan	National Science Foundation	CRII: CSR NeTS: Enabling Secure and Trusted Device I/Os on Smartphones	100	\$14,971	\$7,455	\$22,426
Zhang, Dr. Yifan	Lockheed Martin Corporation	Supplier Development Efforts for the DARPA SSITH Program	10	\$34,765	\$18,680	\$53,445
Department Total:				\$2,619,206		
020 Economics						
Yang, Dr. Zili	Yale University	DICE/RICE Modeling Works for Yale Climate Change Research Program (YCCPR)	100	\$53,401	\$5,340	\$58,741
Department Total:				\$58,741		
020 Electrical and Computer Engineering						
Chen, Dr. Yu	National Science Foundation	EARS Collaborative Research - Intelligence Measure of Cognitive Radio Networks	50	\$2,146	\$666	\$2,812

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Choi, Dr. Seokheun	National Science Foundation	Unlocking the Promise of Bacterial Electrogenericity	100	\$64,594	\$35,742	\$100,336
Choi, Dr. Seokheun	US Navy Office of Naval Research	Supercapacitive Micro-Bio-Photovoltaics for Sustainable Wireless Sensor Networks	100	\$108,223	\$59,160	\$167,383
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	\$9,734	\$5,354	\$15,088
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	\$22,341	\$5,042	\$27,383
Dhakal, Dr. Tara Prasad	NextCorps	Phase 1 Nexus NY Program -	100	(\$825)	\$0	(\$825)
Dhakal, Dr. Tara Prasad	Quansor Corporation	Quansor Water Softener Controls Project	50	\$3,071	\$1,750	\$4,821
Dhakal, Dr. Tara Prasad	Empire State Development Corp	Match to Improved ECG Monitor with Capacitive Electrodes	30	\$4,610	\$2,628	\$7,238
Dhakal, Dr. Tara Prasad	Flex Tech Alliance	Improved ECG Monitor with Capacitive Electrodes	30	\$4,620	\$2,633	\$7,253
Dhakal, Dr. Tara Prasad	National Science Foundation	CAREER: Toward Twenty Year Lifetime: Hermetic Sealing for Perovskite Solar Cells	100	\$64,846	\$35,886	\$100,732
Fridrich, Dr. Jessica J.	National Science Foundation	TWC: Medium: Steganography in Empirical Sources Using Acquisition Oracle	100	\$76,746	\$41,172	\$117,918
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	\$139,049	\$70,494	\$209,542

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Goljan, Dr. Miroslav	US Air Force Research Laboratory	New Generation of Image Processing History and Manipulation Detection Techniques with Vectorized Context-Aware Descriptors	50	\$139,049	\$70,494	\$209,542
Guo, Dr. Linke	National Science Foundation	CCSS: Collaborative Research: Towards Privacy-Preserving Mobile Crowd Sensing: A Multi-Stage Solution	100	\$51,157	\$21,928	\$73,086
Guo, Dr. Linke	National Science Foundation	SCH-INT - Collaborative Research Crowd in Action Human-Centric Privacy-Preserving Data Analytics for Environmental Public Health	100	\$27,562	\$14,634	\$42,196
Guo, Dr. Linke	National Science Foundation	EAGER: Malicious Behavior Detection in Hybrid Dynamic Spectrum Access	100	\$37,896	\$20,525	\$58,421
Hu, Dr. Miao	TetraMem Incorporated	In-Memory Computing Accelerator Study and Its Emulator Based on FPGA	100	\$2,175	\$1,240	\$3,415
Hu, Dr. Miao	Huawei Technologies Company Limited	Deep Learning Applications on ReRam- Crossbar	100	\$27,422	\$15,356	\$42,778
Jin, Dr. Zhanpeng	National Science Foundation	TWC SBE: Small: Collaborative Brain Password: Exploring A Psychophysiological Approach for Secure User Authentication	50	\$3,468	\$1,908	\$5,376
Jin, Dr. Zhanpeng	US Air Force Research Laboratory	A Holistic Approach to Understanding and Benchmarking of Cognitive and Architectural Characteristics for Neuromorphic Architectures	100	\$33,528	\$18,440	\$51,969
Klotzkin, Dr. David	National Science Foundation	Scholarships and Nanofabrication Experience: Successful Transitions from Community College to Graduate School	25	\$3,196	\$1,758	\$4,954
Klotzkin, Dr. David	National Science Foundation	Scholarships and Nanofabrication Experience: Successful Transitions from Community College to Graduate School	25	\$13,806	\$0	\$13,806
Li, Dr. Xiaohua	National Science Foundation	EARS Collaborative Research - Intelligence Measure of Cognitive Radio Networks	50	\$2,146	\$666	\$2,812

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
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	\$63,555	\$33,917	\$97,471
Skormin, Dr. Victor A	US Navy Office of Naval Research	Security Approach for Industrial Control Systems	100	\$13,604	\$7,482	\$21,086
Summerville, Dr. Douglas H	National Science Foundation	Scholarship Program for Master's Degree Seeking Students in Engineering	33	\$1,358	\$747	\$2,105
Summerville, Dr. Douglas H	Lockheed Martin Corporation	Assured and Trusted Microelectronics Solutions-FPGA Assurance- Tamper Detection- Chameleon Circuit	100	\$18,551	\$10,574	\$29,126
Summerville, Dr. Douglas H	National Science Foundation	Scholarship Program for Master's Degree Seeking Students in Engineering	33	\$42,080	\$0	\$42,080
Wu, Dr. N Eva	NYS Energy Research and Development Authority	Development of a Low Cost Active DER System-Agreement 118225	33	\$30,870	\$16,708	\$47,578
Zahorian, Mr. Stephen A.	National Science Foundation	Scholarship Program for Master's Degree Seeking Students in Engineering	34	\$1,399	\$769	\$2,168
Zahorian, Mr. Stephen A.	National Science Foundation	Scholarship Program for Master's Degree Seeking Students in Engineering	34	\$43,355	\$0	\$43,355
Zahorian, Mr. Stephen A.	Minerva Systems and Technologies LLC	STTR Phase II Reverberation Mitigation of Speech - USAF Award FA8750-16-C-0292	100	\$51,896	\$27,501	\$79,398
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	\$33,512	\$7,562	\$41,075
Zhang, Dr. Ziang	NYS Energy Research and Development Authority	Development of a Low Cost Active DER System-Agreement 118225	34	\$31,805	\$17,214	\$49,019

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Zhou, Dr. Ning	NYS Energy Research and Development Authority	Development of a Low Cost Active DER System-Agreement 118225	33	\$30,870	\$16,708	\$47,578
Zhou, Dr. Ning	Pacific Northwest National Laboratory	Algorithm Development for Hybrid State Estimation - FY18 Work Performed at Binghamton University, Binghamton NY United States	100	\$0	(\$61)	(\$61)
Zhou, Dr. Ning	National Science Foundation	CAREER: Integrated Dynamic State Estimation for Monitoring Power Systems Under High Uncertainty and Variation	100	\$489	\$279	\$768
Zhou, Dr. Ning	Bigwood Systems Incorporated	On-Line Validating and Calibrating Generator Dynamic and Electrical Parameters Using PMU and SCADA Data	100	\$570	\$314	\$884
Zhou, Dr. Ning	Pacific Northwest National Laboratory	Algorithm Development for Hybrid State Estimation - FY18 Work Performed at Binghamton University, Binghamton NY United States	100	\$11,792	\$6,183	\$17,975
Department Total:				\$1,789,636		

020 Entrepreneurship and Innovation Partnership

McKeage, Mr. Louis G	Economic Development Administration	Trade Adjustment Assistance Center Serving New York, New Jersey and the Commonwealth of Puerto Rico	100	\$314,642	\$60,411	\$375,054
McKeage, Mr. Louis G	Economic Development Administration	Trade Adjustment Assistance Center Serving New York, New Jersey and the Commonwealth of Puerto Rico	100	\$371,392	\$0	\$371,392
McKeage, Mr. Louis G	Economic Development Administration	Trade Adjustment Assistance Center Serving New York, New Jersey and the Commonwealth of Puerto Rico	100	\$137,410	\$17,833	\$155,243
McKeage, Mr. Louis G	Multiple Sponsors	TAAC FY 2017 Income Account	100	\$5,121	\$0	\$5,121
McKeage, Mr. Louis G	Multiple Sponsors	TAAC Income Account 2016-	100	\$6,000	\$0	\$6,000

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
McLeod, Dr. Kenneth J	VentureWell	Developing an Entrepreneurial Mindset in the First Year Student	100	\$421	\$0	\$421
McLeod, Dr. Kenneth J	VentureWell	Faculty Grant - Developing an Entrepreneurial Mindset in First Year Women Students	100	\$6,355	\$0	\$6,355
Petrova, Ms. Olga	National Science Foundation	I-Corps: Replenishing the Skin Microbiome	50	\$12,369	\$1,374	\$13,743
Stromhaug, Mr. Per	National Science Foundation	Type 1: Innovation Binghamton NSF I-Corps Site	100	\$16,440	\$0	\$16,440
Stromhaug, Mr. Per	NYS Energy Research and Development Authority	Southern Tier Clean Energy Incubator-NYSERDA 110470	100	\$174,980	\$45,495	\$220,474
Stromhaug, Mr. Per	NYS Department of Economic Development	Binghamton University's Business Incubator Program	100	\$103,966	\$0	\$103,966
Stromhaug, Mr. Per	NYS Department of Economic Development	Binghamton University's Business Incubator Program	100	\$26,088	\$0	\$26,088
Stromhaug, Mr. Per	National Science Foundation	I-Corps: Replenishing the Skin Microbiome	50	\$12,369	\$1,374	\$13,743
Stromhaug, Mr. Per	NYS Energy Research and Development Authority	Southern Tier Clean Energy Incubator-NYSERDA 110470	100	\$10,190	\$2,649	\$12,839
Stromhaug, Mr. Per	Southern Tier High Technology Incubator Incorporated	Binghamton Incubator Program	100	\$10,000	\$0	\$10,000
Stromhaug, Mr. Per	NYS Energy Research and Development Authority	Southern Tier Clean Energy Incubator-NYSERDA 110470	100	\$8,614	\$0	\$8,614

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Stromhaug, Mr. Per	Economic Development Administration	EDA i6 Challenge Binghamton XCEEDs	100	\$5,925	\$1,462	\$7,387
Stromhaug, Mr. Per	National Science Foundation	Type 1: Innovation Binghamton NSF I-Corps Site	100	\$4,096	\$2,335	\$6,430
Stromhaug, Mr. Per	National Science Foundation	Type 1: Innovation Binghamton NSF I-Corps Site	100	\$11,321	\$6,450	\$17,771

Department Total: \$1,377,083

020 Geography

Holmes, Ms. Louisa	Regents of the University of California	Impact of new policies on young adult tobacco and marijuana use	100	\$19,332	\$11,019	\$30,351
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Department Total: \$30,351

020 Geological Sci & Environmental Studies

Graney, Dr. Joseph R	National Science Foundation	GP-EXTRA: Freshman Research in Biogeochemistry for Engagement and Retention	20	\$15,653	\$7,827	\$23,480
Jenkins, Dr. David M	National Science Foundation	Stability and Thermochemistry of some Chlorine-Bearing Calcium Amphiboles	100	\$42,625	\$21,388	\$64,013
Kulp, Dr. Thomas	National Science Foundation	GP-EXTRA: Freshman Research in Biogeochemistry for Engagement and Retention	20	\$15,653	\$7,827	\$23,480
Kulp, Dr. Thomas	National Science Foundation	Collaborative Research: Antimony stable isotope systematics during bacterial and abiotic redox cycling	100	\$20,063	\$9,683	\$29,747
Lowenstein, Dr. Tim K	National Science Foundation	GP-EXTRA: Freshman Research in Biogeochemistry for Engagement and Retention	20	\$15,653	\$7,827	\$23,480

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Lowenstein, Dr. Tim K	National Science Foundation	Collaborative Research: Anatomy of a Greenhouse World: The Early Eocene of the Green River Basin, Wyoming	100	\$36,614	\$9,520	\$46,134
Lowenstein, Dr. Tim K	Arizona Board of Regents	FESD Type I: Earth System Dynamics and its Role in Human Evolution in Africa	100	\$3,436	\$1,890	\$5,326
Patterson, Dr. Molly	Columbia University	US Science Support Program Office associated with the International Ocean Discovery Program (USSSP-IODP)	100	\$16,697	\$4,341	\$21,038
Patterson, Dr. Molly	Columbia University	US Science Support Program Office associated with the International Ocean Discovery Program (USSSP-IODP)	100	\$948	\$540	\$1,488
Pietras, Dr. Jeffrey T	Foundation of SUNY at Binghamton	Start Up Support Provided by Private Donor	100	(\$1,565)	\$0	(\$1,565)
Pietras, Dr. Jeffrey T	American Chemical Society	Rhenium-Osmium Isotope Systematics: Application of Osmium Isotope Stratigraphy and Geochronology in Lacustrine Organic-rich Mudstones	100	\$36,838	\$0	\$36,838

Department Total: \$273,459

020 Graduate School Dean

Lam, Dr. Sarah	Council of Graduate Schools	Understanding PhD Career Pathways - HUMANITIES	33	\$1,221	\$0	\$1,221
Lam, Dr. Sarah	Council of Graduate Schools	Understanding PhD Career Pathways - STEM	33	\$2,378	\$1,348	\$3,726
Lam, Dr. Sarah	National Science Foundation	Graduate Research Fellowship Program	100	\$5,000	\$0	\$5,000
Lam, Dr. Sarah	National Science Foundation	Graduate Research Fellowship Program	100	\$49,871	\$0	\$49,871

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Strehle, Dr. Susan	Council of Graduate Schools	Understanding PhD Career Pathways - HUMANITIES	33	\$1,221	\$0	\$1,221
Strehle, Dr. Susan	Council of Graduate Schools	Understanding PhD Career Pathways - STEM	33	\$2,378	\$1,348	\$3,726
Strehle, Dr. Susan	Foundation of SUNY at Binghamton	Graduate Assistant Salaries/Fellowship Support Funded Through BU Foundation Accounts	100	\$210,704	\$0	\$210,704
Tarhule, Dr. Andover	Council of Graduate Schools	Understanding PhD Career Pathways - STEM	34	\$2,450	\$1,389	\$3,839
Tarhule, Dr. Andover	Council of Graduate Schools	Understanding PhD Career Pathways - HUMANITIES	34	\$1,258	\$0	\$1,258

Department Total: \$280,565

020 Health Outcomes and Administrative Sciences

Dang, Dr. Utkarsh	Foundation to Eradicate Duchenne	Defining Serum Biomarkers of Early-Age Severity for DMD - Statistical Research Using Vamorolone 002 Data	100	\$1,930	\$193	\$2,123
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Department Total: \$2,123

020 Judaic Studies

Friedman, Dr. Randy	Israel Institute	Development of the Institute for Israel Studies	100	\$1,842	\$0	\$1,842
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Department Total: \$1,842

020 Library Administration

Parks, Ms. Heather	NYS Education Department	2018-2019 Conservation and Preservation Program Grant	100	\$61,880	\$0	\$61,880
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<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Shephard, Mr. Edward	NYS Education Department	Library Collections 2018-2019	100	\$21,744	\$0	\$21,744
Department Total:				\$83,624		
020 Mathematical Sciences						
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	\$12,154	\$6,849	\$19,002
Geoghegan, Dr. Ross	Simons Foundation	New advances in quickest change-point detection with applications	100	\$609	\$102	\$711
Geoghegan, Dr. Ross	Simons Foundation	Topics on regression models and spatial statistics	100	\$854	\$171	\$1,025
Geoghegan, Dr. Ross	Simons Foundation	Research on Random Matrices and its Applications	100	\$1,764	\$353	\$2,117
Kargin, Dr. Vladislav	Simons Foundation	Research on Random Matrices and its Applications	100	\$5,399	\$1,080	\$6,479
Mazur, Dr. Marcin	Simons Foundation	Algebraic and Asymptotic Properties of Generating Sets of Algebras	100	\$5,220	\$872	\$6,091
Ontaneda, Dr. Pedro	National Science Foundation	Spaces with Negative and Nonpositive Curvature	100	\$41,192	\$22,401	\$63,593
Polunchenko, Dr. Aleksey S	Simons Foundation	New advances in quickest change-point detection with applications	100	\$2,031	\$339	\$2,370
Xu, Dr. Ganggang	National Science Foundation	Collaborative Research: Non- and Semi-Parametric Modeling of Structured Human Activity Patterns Using Point Processes	100	\$11,710	\$6,675	\$18,385

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Xu, Dr. Ganggang	Simons Foundation	Topics on regression models and spatial statistics	100	\$2,590	\$518	\$3,108
Zhou, Dr. Gang	National Science Foundation	Quantum Friction, Resonance Problems and New Methods in Geometric Flows	100	\$11,005	\$6,163	\$17,167
Department Total:				\$140,049		

020 Mechanical Engineering

Chiarot, Dr. Paul	National Science Foundation	MRI: Development of a Microfluidic Instrument for High-throughout Production of Asymmetric Vesicles to Support Membrane Biology Research	50	\$859	\$473	\$1,332
Chiarot, Dr. Paul	American Chemical Society	Electrohydrodynamic Atomization of Fuels Using Charge-Injection for Efficient Flameless Catalytic Combustion at Small Scale	100	\$16,410	\$0	\$16,410
Chiarot, Dr. Paul	National Institute of Allergy & Infectious Disease	Evaluating the Bilayer-Couple Model of Outer Membrane Vesicle Biogenesis Using Novel Asymmetric Membrane Templates	33	\$13,796	\$7,417	\$21,213
Chiarot, Dr. Paul	National Science Foundation	Inkjet-Electrospray Hybrid Printing: Understanding the Processing-Structure Relationship	33	\$19,776	\$10,192	\$29,968
Chiarot, Dr. Paul	Edgewell Personal Care	Electrospray Deposition of PTFE Coatings - Phase 3	100	\$27,611	\$13,105	\$40,717
Chiarot, Dr. Paul	National Science Foundation	CAREER: Additive Manufacturing using Electrospray Printing of Nanoparticle Inks	100	\$46,789	\$24,696	\$71,485
Chiarot, Dr. Paul	National Institutes of Health	Perivascular Transport of Solutes from the Brain	34	\$63,930	\$10,796	\$74,727
Chiarot, Dr. Paul	Edgewell Personal Care	Electrospray Deposition of PTFE Coatings Phases 1 and II	100	\$60	\$34	\$94

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Cho, Dr. Junghyun	Analog Devices, Incorporated	Microstructure Evaluation of New SAC Solders	100	\$8,690	\$4,945	\$13,635
Cho, Dr. Junghyun	Honeywell Federal Manufacturing & Technologies LLC	PDRD Conformal Coating Tin Whiskers	100	\$9,660	\$5,506	\$15,166
Huang, Dr. Pong-Yu	National Institutes of Health	Perivascular Transport of Solutes from the Brain	33	\$62,050	\$10,479	\$72,529
Huang, Dr. Pong-Yu	National Science Foundation	Endothelial to Mesenchymal Transformation Mechanobiology	50	\$1,897	\$0	\$1,897
Jin, Dr. Congrui	UT Battelle LLC	Assessment of Electrolyte Diffusion	100	\$12,793	\$7,292	\$20,085
Jin, Dr. Congrui	Battelle Energy Alliance LLC	Mechanics in Hydrogen Production SOW-15976	100	\$3,409	\$1,943	\$5,353
Jin, Dr. Congrui	University of Science and Technology Beijing	High Temperature Creep Failure of Additively Manufactured Metals	100	\$4,545	\$136	\$4,681
Ke, Dr. Changhong	National Inst on Deafness & Other Comm Disorders	Capacitive Pressure/ Velocity Probe for Acoustic Measurements in the Human Ear Canal	33	\$2,328	\$1,327	\$3,655
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 Science Foundation	Collaborative Research:Experimental and Computational Nanomechanics of the Load Transfer Mechanisms at the Graphene Polymer Interface	100	\$66,822	\$31,833	\$98,655
Ke, Dr. Changhong	US Air Force Office of Scientific Research	Investigating the Structural and Mechanical Properties of Boron Nitride Nanotubes and their Polymer Nanocomposites	100	\$129,842	\$30,173	\$160,015

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Miles, Dr. Ronald N	National Science Foundation	A New Approach to Capacitive Sensing: Repulsive Sensors	50	\$7,000	\$0	\$7,000
Miles, Dr. Ronald N	National Inst on Deafness & Other Comm Disorders	Capacitive Pressure/ Velocity Probe for Acoustic Measurements in the Human Ear Canal	67	\$4,727	\$2,694	\$7,421
Miles, Dr. Ronald N	National Science Foundation	A New Approach to Capacitive Sensing: Repulsive Sensors	50	\$19,882	\$4,859	\$24,741
Miles, Dr. Ronald N	National Science Foundation	A New Approach to Capacitive Sensing: Repulsive Sensors	50	\$34,473	\$18,518	\$52,991
Murray, Dr. Bruce T	Multiple Sponsors	ES2 IAB Donation Multiple Sponsors	33	\$13	\$1	\$14
Murray, Dr. Bruce T	National Science Foundation	Collaborative Center: I/UCRC in Center for Energy-Smart Electronic Systems (ES2)	33	\$0	\$0	\$0
Murray, Dr. Bruce T	Huawei Technologies Company Limited	Huawei Corporation's Membership in the I/UCRC for Energy-Smart Electronic Systems	33	\$2	\$0	\$2
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	\$28,841	\$16,151	\$44,992
Park, Dr. Seungbae	Juniper Networks Incorporated	Thermal Analyses of 2.5D Package Assemblies	100	\$23,926	\$13,398	\$37,324
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	50	\$614	\$350	\$963
Park, Dr. Seungbae	Multiple Sponsors	Miscellaneous Income Received From non sponsored work being done by SB Park	100	\$2,559	\$640	\$3,199

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Pitarresi, Dr. James	National Science Foundation	Scholarship Program for Master's Degree Seeking Students in Engineering	33	\$1,358	\$747	\$2,105
Pitarresi, Dr. James	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$21,690	\$0	\$21,690
Pitarresi, Dr. James	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$29,983	\$12,048	\$42,031
Pitarresi, Dr. James	National Science Foundation	Scholarship Program for Master's Degree Seeking Students in Engineering	33	\$42,080	\$0	\$42,080
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	\$1,972	\$1,124	\$3,096
Schiffres, Dr. Scott	EthosGen LLC	Next Generation HVAC Adsorption Compressorless HVAC Using Advanced Materials	100	\$2,469	\$1,407	\$3,877
Schiffres, Dr. Scott	National Science Foundation	I-Corps: Additive Laser Metal Deposition onto Silicon for Enhanced Electronics Cooling	100	\$1,500	\$167	\$1,667
Schiffres, Dr. Scott	National Science Foundation	CAREER: Intermetallic Interfacial Thermal Transport for Advanced Electronics Manufacturing	100	\$1,672	\$953	\$2,625
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	\$1,914	\$1,091	\$3,005
Singler, Dr. Timothy J	National Science Foundation	Inkjet-Electrospray Hybrid Printing:Understanding the Processing-Structure Relationship	33	\$19,776	\$10,192	\$29,968

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Singler, Dr. Timothy J	Multiple Sponsors	Unrestricted Research Support - Kurt lesker	100	\$417	\$83	\$501
Towfighian, Dr. Shahrzad	National Science Foundation	MEMS High Voltage Triboelectric Levitation: A Generactuator	100	\$1,769	\$1,008	\$2,777
Towfighian, Dr. Shahrzad	National Science Foundation	A New Approach to Capacitive Sensing: Repulsive Sensors	50	\$7,000	\$0	\$7,000
Towfighian, Dr. Shahrzad	National Science Foundation	A New Approach to Capacitive Sensing: Repulsive Sensors	50	\$19,882	\$4,859	\$24,741
Towfighian, Dr. Shahrzad	National Science Foundation	A New Approach to Capacitive Sensing: Repulsive Sensors	50	\$34,473	\$18,518	\$52,991
Towfighian, Dr. Shahrzad	National Inst of Arthritis Musculoskeletal & Skin	An implantable self-powered load sensor for total knee replacement health monitoring	100	\$68,262	\$38,765	\$107,027
Wang, Dr. Hao	Charge CCCV	Unrestricted Research Support	100	\$3,162	\$474	\$3,637
Willing, Dr. Ryan	National Inst of Arthritis Musculoskeletal & Skin	Multiobjective Design-Optimization of Reverse Total Shoulder Arthroplasty	100	\$21,390	\$11,764	\$33,154
Yong, Dr. Xin Frank	National Science Foundation	Inkjet-Electrospray Hybrid Printing:Understanding the Processing-Structure Relationship	34	\$20,375	\$10,500	\$30,876
Yong, Dr. Xin Frank	American Chemical Society	Mesoscale Modeling of Stimuli-Responsive Composite Colloids at Oil-Water Interfaces	100	\$46,872	\$0	\$46,872
Yong, Dr. Xin Frank	National Institute of Allergy & Infectious Disease	Evaluating the Bilayer-Couple Model of Outer Membrane Vesicle Biogenesis Using Novel Asymmetric Membrane Templates	33	\$13,796	\$7,417	\$21,213

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Zhou, Dr. Guangwen	US Department of Energy	Northeast Center for Chemical Energy Storage(NECCES)	100	\$21,249	\$11,900	\$33,149
Zhou, Dr. Guangwen	National Science Foundation	Collaborative Research:situ Characterization of Methanol Oxidation Catalyzed By Copper-Based Materials	100	\$144	\$79	\$223
Zhou, Dr. Guangwen	US Department of Energy	Northeast Center for Chemical Energy Storage(NECCES)	5	\$60,774	\$11,002	\$71,776
Zhou, Dr. Guangwen	US Department of Energy	In Situ Visualization and Theoretical Modeling of Early Stages of Oxidation of Metals and Alloys	100	\$177,456	\$95,506	\$272,962
Zhou, Dr. Guangwen	Pacific Northwest National Laboratory	Materials Synthesis and Simulations Across Scales (MS3), Richland, WA, USA	100	\$22,852	\$5,696	\$28,548
Zhou, Dr. Guangwen	Pacific Northwest National Laboratory	Materials Synthesis and Simulations Across Scales (MS3) Richland, WA, USA	100	\$8,249	\$1,904	\$10,153
Zhou, Dr. Guangwen	US Department of Energy	Northeast Center for Chemical Energy Storage(NECCES)	5	\$0	\$713	\$713
Zhou, Dr. Guangwen	US Department of Energy	In Situ Visualization and Theoretical Modeling of Early Stages of Oxidation of Metals and Alloys	100	\$1,240	\$682	\$1,922

Department Total: \$1,742,639

020 Pharmaceutical Sciences

Beedle, Dr. Aaron	Muscular Dystrophy Association of America	Is MTOR inhibition a valid therapy for dystroglycan muscular dystrophy	100	\$18,801	\$2,263	\$21,064
Beedle, Dr. Aaron	University of Georgia	Structure and Function in Alpha-Dystroglycan Glycosylation 2R01GM111939	100	\$24,299	\$13,850	\$38,149

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Beedle, Dr. Aaron	Muscular Dystrophy Association of America	Is MTOR inhibition a valid therapy for dystroglycan muscular dystrophy	100	\$62,290	\$5,808	\$68,098
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	\$66,520	\$37,916	\$104,436
Edwards, Dr. Katie	Childrens Research Institute	A Non-invasive Point-Of-Care Assay for Monitoring Titin Levels in the Urine of DMD Patients	100	\$30,770	\$12,372	\$43,141
Hathout, Dr. Yetrib	Childrens Research Institute	RPDP: Bridging pharmacodynamic biomarkers to clinical outcomes in pediatric inflammatory diseases- Core A 5U54HD090254-02	100	\$12,483	\$6,991	\$19,474
Hathout, Dr. Yetrib	US Army Medical Research Acquisition Activity	Clinical Utility of Serum Protein Biomarkers in Very Young Duchenne Muscular Dystrophy Boys	100	\$293,191	\$154,832	\$448,023
Hathout, Dr. Yetrib	Muscular Dystrophy Association of America	Development and Validation of Pharamcodynamics Biomarkers for Duchenne (MDA 353094)	100	\$11,990	\$1,199	\$13,189
Hathout, Dr. Yetrib	Childrens Research Institute	U54 Bridging Pharmacodynamic Biomarkers to Clinical Outcomes in Pediatric Inflammatory Diseases	100	\$150,639	\$84,788	\$235,427
Hathout, Dr. Yetrib	US Army Medical Research Acquisition Activity	Generating the Evidentiary Data Package for Dystrophin Biomarker Qualifications	100	\$133,194	\$65,950	\$199,145
Nagaraju, Dr. Kanneboyina	Childrens Research Institute	Understanding the Mechanism and Role of Cell Membrane Repair in Miyoshi Myopathy	100	\$1,681	\$941	\$2,622
Nagaraju, Dr. Kanneboyina	DB Therapeutics Incorporated	Unrestricted Research: DB Therapeutics in the area of radiotherapeutic bandage	100	\$3,820	\$573	\$4,393
Nagaraju, Dr. Kanneboyina	National Institutes of Health	Preclinical drug trial in mouse models of inflammation	100	\$8,315	\$665	\$8,980

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Nagaraju, Dr. Kanneboyina	Childrens Research Institute	Understanding the Mechanism and Role of Cell Membrane Repair in Miyoshi Myopathy- Year 2	100	\$14,170	\$8,077	\$22,247
Nagaraju, Dr. Kanneboyina	Myositis Association	Role of Innate Immune and Metabolic Pathways in Mediating Muscle Weakness in Myositis	100	\$23,347	\$0	\$23,347
Nagaraju, Dr. Kanneboyina	National Inst of Neurological Disorders & Stroke	Dystrophin turnover after exon-skipping	100	\$27,655	\$15,487	\$43,141
Nagaraju, Dr. Kanneboyina	Myositis Association	Urine Biomarkers in Juvenile Dermatomyositis	100	\$50,000	\$0	\$50,000
Nagaraju, Dr. Kanneboyina	Parent Project for Muscular Dystrophy Research Inc	Effect of Immunomodulatory Treatments on Immune Response After Gene Correction in DMD	100	\$69,355	\$3,468	\$72,823
Nagaraju, Dr. Kanneboyina	National Institute of Allergy & Infectious Disease	Virus Induced Genetic Changes in the Pathogenesis of Autoimmune Myositis	100	\$140,185	\$65,775	\$205,959
Tumey, Mr. L Nathan	Millennium Pharmaceuticals Incorporated	The Identification of Lysosomal Selective Proteolytically Cleavable Linkers Takeda agreement # CW2510332	100	\$45,909	\$26,168	\$72,077
				Department Total:	\$1,695,737	
020 Pharmacy Practice						
Kufel, Dr. Wesley	American Society of Health System Pharmacists	Impact of a Pharmacist -Driven Collaborative Initiative for Staphylococcus Aureus Bacteremia Management	100	\$1,650	\$132	\$1,782
				Department Total:	\$1,782	
020 Philosophy						
Hassoun, Dr. Nicole	Saint Louis University	What is the nature of the (Minimally) good life? Templeton award 57313	100	\$9,044	\$0	\$9,044
				Department Total:	\$9,044	

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
020 Physics, Applied Physics & Astronomy						
Aynajian, Dr. Pegor	National Science Foundation	CAREER: Visualizing Emergent Electronic States Near Quantum Phase Transitions	100	\$67,379	\$37,330	\$104,710
Cotts, Dr. Eric	Universal Instruments Corporation	Accelerated Thermal Testing (ATC) Reliability of SAC/SnBiAg Mixed Assembly Solder Joints- The Effect of Current Stressing	100	\$3,038	\$790	\$3,828
Cotts, Dr. Eric	National Science Foundation	Scholarships and Nanofabrication Experience: Successful Transitions from Community College to Graduate School	25	\$3,196	\$1,758	\$4,954
Cotts, Dr. Eric	Universal Instruments Corporation	The Reliability of SnAgCu/SnBiAg Mixed Assemblies- Current Stressing	100	\$8,826	\$2,295	\$11,121
Cotts, Dr. Eric	National Science Foundation	Scholarships and Nanofabrication Experience: Successful Transitions from Community College to Graduate School	25	\$13,806	\$0	\$13,806
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	\$22,031	\$11,950	\$33,982
Cotts, Dr. Eric	Universal Instruments Corporation	High Melt- Low Melt Solder Interconnect Structures for SMT Applications	100	\$27,917	\$7,258	\$35,175
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	\$36,283	\$20,319	\$56,602
Cotts, Dr. Eric	Indium Corporation	Development of New Pb Free Solder Alloys	100	\$51,997	\$13,519	\$65,516
Kolmogorov, Dr. Alexey	National Science Foundation	Theory-Guided Discovery of Tin-Based Materials	100	\$76,078	\$41,762	\$117,840

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Kolmogorov, Dr. Alexey	National Science Foundation	A Machine Learning Framework for Acceleration Materials Prediction	100	\$4,633	\$2,548	\$7,181
Lee, Dr. Wei-Cheng	Georgia Institute of Technology	MURI - Cross-Disciplinary Electronic-Ionic Research Enabling Biologically Realistic Autonomous Learning (CEREBRAL)	100	\$32,230	\$17,277	\$49,507
Levy, Dr. Stephen	National Science Foundation	CAREER: DNA Transport Through Carbon Nanotubes	100	\$20,609	\$11,335	\$31,943
Margine, Dr. Elena R	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$21,690	\$0	\$21,690
Margine, Dr. Elena R	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$29,983	\$12,048	\$42,031
Margine, Dr. Elena R	National Science Foundation	S12-SSE: Expanding the Scope of Materials Modeling with Electron Phonon Wannier (EPW) Software	100	\$42,043	\$22,888	\$64,931
Mativetsky, Dr. Jeffrey	National Science Foundation	REU Site: Renewable Energy Generation and Storage	100	\$30,480	\$17,069	\$47,549
Mativetsky, Dr. Jeffrey	National Science Foundation	REU Site: Renewable Energy Generation and Storage	100	\$54,272	\$0	\$54,272
Mativetsky, Dr. Jeffrey	National Science Foundation	Ambient Processing and Patterning of Graphene Oxide Across Multiple Length Scales	100	\$48,116	\$25,955	\$74,071
Mativetsky, Dr. Jeffrey	National Science Foundation	CAREER: Charge Photogeneration and Transport in Organic Semiconductor Nanowires	100	\$51,958	\$27,539	\$79,497
Piper, Dr. Louis	Research Corporation for Science Advancement	Scialog Advanced Energy Storage Award	100	\$25,024	\$0	\$25,024

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Piper, Dr. Louis	Georgia Institute of Technology	MURI - Cross-Disciplinary Electronic-Ionic Research Enabling Biologically Realistic Autonomous Learning (CEREBRAL)	100	\$172,549	\$86,196	\$258,745
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	\$38,094	\$20,638	\$58,732
Piper, Dr. Louis	US Department of Energy	Northeast Center for Chemical Energy Storage(NECCES)	100	\$14,484	\$8,111	\$22,595
Piper, Dr. Louis	US Department of Energy	Northeast Center for Chemical Energy Storage(NECCES)	5.76	\$0	\$821	\$821
Piper, Dr. Louis	Research Corporation for Science Advancement	Scaling the sensitivity gap to probe interfaces of high voltage cathodes	100	\$90	\$9	\$99
Piper, Dr. Louis	US Department of Energy	Northeast Center for Chemical Energy Storage(NECCES)	5.76	\$70,012	\$12,675	\$82,686
Shim, Dr. Bonggu	National Science Foundation	Wavelength Scaling of Plasma and Spatio-Temporal Dynamics of Laser Filamentation in Solids	100	\$25,816	\$14,452	\$40,268
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	\$78,135	\$30,328	\$108,463
White, Dr. Bruce E.	US Department of Education	Multidisciplinary GAANN in Smart Energy Materials	20	\$20,585	\$0	\$20,585
Yao, Ms. Lan	National Institute of General Medical Sciences	Rational Design of pH-Low Insertion Peptides for Cargo Delivery	30	\$23,899	\$13,622	\$37,521

Department Total: \$1,575,744

020 Political Science

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Clark, Dr. David	Leidos	Mass Mobilization Data Project	100	\$320	\$179	\$499
Clark, Dr. David	Leidos	Option 3 - Mass Mobilization Data Project	100	\$3,953	\$2,213	\$6,166
Clark, Dr. David	Leidos	Mass Mobilization Data Project	100	\$6,125	\$3,491	\$9,617
Karakoc, Dr. Ekrem	University of Calgary	International Business in the Middle East and North Africa MENA: danger zones or the land of opportunity	100	\$10,576	\$0	\$10,576
Weintraub, Mr. Michael	Research Foundation of City University of New York	Regional Training Academy	100	\$18,405	\$4,785	\$23,191
Weintraub, Mr. Michael	National Science Foundation	Explaining Civilian Support for Political and Criminal Armed Groups	100	\$22,353	\$8,838	\$31,191

Department Total: \$81,240

020 Psychology

Balderrama-Durbin, Dr. Christina	National Institute for Alcohol Abuse & Alcoholism	An Integrated Brief Alcohol and PTSD Intervention for Veterans in Primary Care	50	\$35,227	\$17,073	\$52,300
Balderrama-Durbin, Dr. Christina	Ithaca Psychological Testing	Ithaca Psychological Testing	100	\$19,262	\$0	\$19,262
Bishop, Dr. Christopher	Renovo Neural Incorporated	Analyzing Biological Tissue Samples	100	\$667	\$373	\$1,040
Bishop, Dr. Christopher	Melior Pharmaceuticals Incorporated	Testing Agreement	100	\$5,321	\$2,926	\$8,247

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Bishop, Dr. Christopher	American Parkinson Disease Association Inc	Targeting the Pedunculo pontine Tegmental Nucleus to Optimize Treatment of Parkinson's Disease	100	\$36,174	\$0	\$36,174
Bishop, Dr. Christopher	Howard Hughes Medical Institute	Howard Hughes Support - Freshman Research Immersion (FRI) Models	50	\$122,659	\$0	\$122,659
Coles, Dr. Meredith	Multiple Sponsors	Income from Services of Binghamton Anxiety Clinic	100	\$4,218	\$633	\$4,851
Coles, Dr. Meredith	SiMmersion	Simulated Clinician Assessment for Cognitive Behavioral Therapy Skills R01MH112625	33.3	\$13,572	\$7,600	\$21,172
Deak, Dr. Terrence	National Institute for Alcohol Abuse & Alcoholism	Development and Neuroadaptations in Alcohol and Addiction	25	\$15,736	\$1,259	\$16,995
Deak, Dr. Terrence	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center (Year 10)	100	\$130,993	\$71,792	\$202,786
Deak, Dr. Terrence	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center (Year 10)	100	\$55,136	\$27,575	\$82,711
Deak, Dr. Terrence	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	100	\$49,872	\$27,929	\$77,801
Deak, Dr. Terrence	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center (Year 10)	50	\$68,539	\$0	\$68,539
Deak, Dr. Terrence	National Institute for Alcohol Abuse & Alcoholism	Development and Neuroadaptations in Alcohol and Addiction	25	\$35,549	\$2,580	\$38,129
Deak, Dr. Terrence	National Institute on Aging	Neuroinflammation and Social Behavior Across the Lifespan (Years2-5)	90	\$227,243	\$86,212	\$313,454

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Deak, Dr. Terrence	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center (Year 10)	100	\$42,700	\$0	\$42,700
Di Lorenzo, Dr. Patricia M	University of Georgia	Vagal Influence on Brainstem Plasticity and Nueral Coding of Taste	100	\$182,659	\$100,463	\$283,122
Di Lorenzo, Dr. Patricia M	National Inst on Deafness & Other Comm Disorders	Temporal Coding in the Gustatory System of the Brain	100	\$255,165	\$114,388	\$369,552
Di Lorenzo, Dr. Patricia M	National Institute of General Medical Sciences	SUNY Upstate Bridges to the Baccalaureate Program	50	\$29,400	\$2,352	\$31,752
Di Lorenzo, Dr. Patricia M	National Institute of General Medical Sciences	SUNY Upstate Bridges to the Baccalaureate Program	50	\$77,543	\$5,554	\$83,097
Diaz, Dr. Marvin R	National Institute for Alcohol Abuse & Alcoholism	Role of BLA kappa opioid receptors in adolescent anxiety and ethanol consumption	100	\$24,254	\$13,825	\$38,079
Gibb, Dr. Brandon E	Ithaca Pyschological Testing	2017 Clinical Placement	100	\$2,813	\$0	\$2,813
Gibb, Dr. Brandon E	Google LLC	Neura Activity and Emotion Processing	10	\$9,549	\$5,443	\$14,991
Gibb, Dr. Brandon E	National Institute of Mental Health	A fine grained EEG/ERP examination of reward processing in suicide attempters	100	\$29,401	\$0	\$29,401
Gillis Mattson, Ms. Jennifer M	NYS Education Department	CARD Albany and NYS Regional Center(s) for Autism Spectrum Disorders	100	\$1,774	\$69	\$1,843
Gillis Mattson, Ms. Jennifer M	NYS Education Department	CARD Albany and Regional Center(s) for Autism Spectrum Disorders	100	\$17,177	\$1,374	\$18,551

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Gillis Mattson, Ms. Jennifer M	NYS Education Department	CARD Albany and NYS Regional Center(s) for Autism Spectrum Disorders	100	\$24,017	\$1,921	\$25,938
Jentsch, Dr. James David	Regents of the University of California Los Angeles	Genetic pathways for impulsivity and drug reinforcement: DNA and transcriptome variations in mice Federal Award 1U01DA041602-01A1	100	\$33,843	\$15,592	\$49,435
Jentsch, Dr. James David	National Institute for Alcohol Abuse & Alcoholism	Development and Neuroadaptations in Alcohol and Addiction	25	\$35,549	\$2,580	\$38,129
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	100	\$303,475	\$172,981	\$476,456
Jentsch, Dr. James David	Jackson Laboratory	2018-2019 Center for Systems Neurogenetics of Addiction	100	\$78,845	\$44,152	\$122,997
Jentsch, Dr. James David	Board of Trustees of the Leland Stanford Junior University	Computational Methods for Identification of Genetic Factors Affecting the Response to Drug Abuse (U01DA044399)	100	\$10	\$5	\$15
Jentsch, Dr. James David	National Institute for Alcohol Abuse & Alcoholism	Development and Neuroadaptations in Alcohol and Addiction	25	\$15,736	\$1,259	\$16,995
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	\$56,744	\$31,777	\$88,521
Jentsch, Dr. James David	Jackson Laboratory	2019-2020 Center for Systems Neurogenetics of Addiction	100	\$7,421	\$4,156	\$11,577
Jentsch, Dr. James David	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	100	\$5,726	\$3,207	\$8,932
Jentsch, Dr. James David	Regents of the University of California	Genetic Mechanisms in Klinefelter Syndrome-Related Behaviors 2018-2019: 5R01HD076125-05	100	\$23,517	\$9,985	\$33,502

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Karkhanis, Dr. Anushree	National Institute for Alcohol Abuse & Alcoholism	Impact on early life stress on accumbal kappa opioid signaling and ethonal intake	100	\$82,649	\$6,612	\$89,261
Laszlo, Dr. Sarah	National Science Foundation	TWC SBE: Small: Collaborative Brain Password: Exploring A Psychophysiological Approach for Secure User Authentication	50	\$3,468	\$1,908	\$5,376
Ma, Dr. Yaoying	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	100	\$11,084	\$6,207	\$17,291
Ma, Dr. Yaoying	National Institute for Alcohol Abuse & Alcoholism	Synaptic Adaptations Induced by Prenatal Alcohol Exposure	100	\$26,876	\$14,948	\$41,824
Miskovic, Dr. Vladimir	Tal Medical Incorporated	Pilot test of LFMS on neural dynamics	100	\$385	\$216	\$601
Miskovic, Dr. Vladimir	Board of Regents of the University of Nebraska	Biosensor Data Fusion for Real-Time Monitoring of Global Neurophysiological Function	100	\$4,441	\$2,443	\$6,884
Miskovic, Dr. Vladimir	Google LLC	Neura Activity and Emotion Processing	90	\$85,938	\$48,984	\$134,922
Romanczyk, Dr. Raymond	Multiple Sponsors	Council on Autism Services Conference	100	\$4,954	\$495	\$5,450
Romanczyk, Dr. Raymond	Multiple Sponsors	Childrens Unit for Treatment and Evaluation 2017-2018	100	\$390,671	\$58,601	\$449,271
Romanczyk, Dr. Raymond	Multiple Sponsors	Children's Unit for Treatment and Evaluation 2018-2019	100	\$2,793,030	\$418,955	\$3,211,985
Romanczyk, Dr. Raymond	Multiple Sponsors	Children's Unit Special Programs/ Institute for Child Development	100	\$19,531	\$2,930	\$22,461

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Romanczyk, Dr. Raymond	Multiple Sponsors	Support of the ICD Infrastructure	100	\$5	\$1	\$6
Romanczyk, Dr. Raymond	Multiple Sponsors	Children's Unit for Treatment and Evaluation 2016-2017	100	(\$1,209)	(\$181)	(\$1,390)
Romanczyk, Dr. Raymond	Multiple Sponsors	School District Income for SEDCAR/IDEA Funding	100	\$99,635	\$7,971	\$107,606
Romanczyk, Dr. Raymond	Order of the Eastern Star of New York	Autism Research	100	\$2,995	\$449	\$3,444
Savage, Dr. Lisa M	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center (Year 10)	50	\$29,928	\$1,335	\$31,264
Savage, Dr. Lisa M	National Institute for Alcohol Abuse & Alcoholism	Cortical Biobehavioral Disruption after Thiamine Deficiency and Chronic Alcohol (Years2-5)	100	\$185,044	\$101,774	\$286,819
Savage, Dr. Lisa M	National Institute of General Medical Sciences	SUNY Upstate Bridges to the Baccalaureate Program	50	\$77,543	\$5,554	\$83,097
Savage, Dr. Lisa M	National Institute of General Medical Sciences	SUNY Upstate Bridges to the Baccalaureate Program	50	\$29,400	\$2,352	\$31,752
Savage, Dr. Lisa M	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center (Year 10)	50	\$13,884	\$7,636	\$21,520
Savage, Dr. Lisa M	National Institute for Alcohol Abuse & Alcoholism	Development and Neuroadaptations in Alcohol and Addiction	25	\$15,736	\$1,259	\$16,995
Savage, Dr. Lisa M	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	50	\$9,495	\$5,317	\$14,813

<u><i>Investigator</i></u>	<u><i>Sponsor Name</i></u>	<u><i>Award Title</i></u>	<u><i>% Credited to Investigator</i></u>	<u><i>Direct Costs Expended</i></u>	<u><i>F & A Expended</i></u>	<u><i>Total Expended</i></u>
Savage, Dr. Lisa M	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	50	\$7,431	\$4,161	\$11,592
Savage, Dr. Lisa M	National Institute for Alcohol Abuse & Alcoholism	Development and Neuroadaptations in Alcohol and Addiction	25	\$35,549	\$2,580	\$38,129
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	\$43,962	\$24,179	\$68,141
Spear, Dr. Linda	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center (Year 10)	100	\$134,782	\$73,749	\$208,531
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	\$88,232	\$48,299	\$136,530
Spear, Dr. Linda	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	100	\$100,557	\$0	\$100,557
Spear, Dr. Linda	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center (Year 10)	50	\$68,539	\$0	\$68,539
Spear, Dr. Linda	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	100	\$33,631	\$18,833	\$52,464
Spear, Dr. Linda	National Institute for Alcohol Abuse & Alcoholism	Development and Neuroadaptations in Alcohol and Addiction	25	\$35,549	\$2,580	\$38,129
Spear, Dr. Linda	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	100	\$45,665	\$18,852	\$64,517
Spear, Dr. Linda	National Institute for Alcohol Abuse & Alcoholism	Development and Neuroadaptations in Alcohol and Addiction	25	\$15,736	\$1,259	\$16,995

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Spear, Dr. Linda	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	100	\$23,553	\$1,364	\$24,916
Varlinskaia, Dr. Elena I	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center (Year 10)	100	\$117,963	\$57,060	\$175,023
Varlinskaia, Dr. Elena I	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	50	\$9,495	\$5,317	\$14,813
Varlinskaia, Dr. Elena I	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center (Year 10)	50	\$13,884	\$7,636	\$21,520
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	\$14,654	\$8,060	\$22,714
Varlinskaia, Dr. Elena I	National Institute on Aging	Neuroinflammation and Social Behavior Across the Lifespan (Years2-5)	10	\$25,249	\$9,579	\$34,828
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	\$29,411	\$16,100	\$45,510
Varlinskaia, Dr. Elena I	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	100	\$53,998	\$15,739	\$69,736
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	\$29,411	\$16,100	\$45,510
Werner, Dr. David F.	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center (Year 10)	50	\$29,928	\$1,335	\$31,264
Werner, Dr. David F.	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	50	\$7,431	\$4,161	\$11,592

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
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Werner, Dr. David F.	National Institute for Alcohol Abuse & Alcoholism	2/8 NADIA U01 Adolescent alcohol - exposure timing, sex differences and neural controbutors to persistent anxiety and adolescent phenotypes	20	\$14,654	\$8,060	\$22,714
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Department Total: \$8,760,031

020 Public Archaeology Facility

Miroff, Ms. Laurie E	Environmental Design & Research	Phase 1B - High Bridge Wind Project	100	\$21,526	\$3,229	\$24,755
Miroff, Ms. 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	\$125,334	\$18,800	\$144,134
Miroff, Ms. Laurie E	Civil War Trust	Revolutionary War and War of 1812 Preservation Mapping Project	100	\$118,106	\$17,716	\$135,822
Miroff, Ms. Laurie E	NYS Education Department	2019-2020 Binghamton Cultural Resources Survey Program	100	\$79,035	\$11,855	\$90,891
Miroff, Ms. 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	\$25,954	\$3,893	\$29,847
Miroff, Ms. Laurie E	NYS Education Department	2019-2020 Admin Task 1001- Binghamton Highway Project	100	\$30,932	\$4,640	\$35,571
Miroff, Ms. 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	\$134,801	\$20,220	\$155,021
Miroff, Ms. Laurie E	C and S Engineering	Glass Greenhouse Project Construction Monitoring, Cowaselon Precontact Site, Wampsville, Madison County, NY	100	\$25,932	\$3,890	\$29,822
Miroff, Ms. Laurie E	F.S. Lopke Contracting Incorporated	Ayers Brink Project, Phase 3 Data Recovery- Ayers 1 site and Ayers 3 site (07PR05868)	100	\$15,685	\$2,353	\$18,038

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Miroff, Ms. 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	\$8,711	\$1,307	\$10,018
Miroff, Ms. Laurie E	National Park Service	Historical and Archaeological Survey of the Battlefield of Fort Bull, NY	100	\$6,768	\$122	\$6,890
Miroff, Ms. Laurie E	IEDC	Phase 1B Cultural Resource Survey (approximately 272-277 STPs) WNYE Gas Pipeline Project, Orleans and Genesee Counties, NY	100	\$2,621	\$393	\$3,014
Miroff, Ms. Laurie E	Lamont Engineers	Phase 2 Site Examinations & Phase 1B Addendum Survey, Sidney Water System Improvement Project, Sidney NY	100	\$1,479	\$222	\$1,700
Miroff, Ms. Laurie E	Alex Lyon and Son	Phase 1 Archaeological Survey, Lyons Runne 2 Development Project, Town of Cicero, Onondaga County, NY	100	\$1,350	\$203	\$1,553
Miroff, Ms. Laurie E	C and S Engineering	SUNY Polytechnic Institute Project, Phase 1A Cultural Resource Assessment, Town of Marcy, Onieda County, NY	100	\$280	\$42	\$322
Miroff, Ms. Laurie E	LaBella Associates	Phase 1B Archaeological Survey, NYSEG Circuit Proposal 879	100	\$43,186	\$6,478	\$49,664
Miroff, Ms. Laurie E	Barton and Loguidice DPC	Construction Inspection and Construction Management Services on Front Street Gateway, PIN 9753.16	100	\$17,378	\$2,607	\$19,985
O'Donovan, Ms. Maria	Multiple Sponsors	Journal for the Council of Northeast Historical Archaeology	100	\$3,376	\$506	\$3,883
Versaggi, Dr. Nina M	Colgate University	Longyear Museum Faunal Analysis Project	100	\$6,470	\$971	\$7,441
Versaggi, Dr. Nina M	C and S Engineering	Phase 1B Archaeological Survey (Greenhouse Facility Parcel), Glass Greenhouse Facility Project, Madison County, NY	100	\$6,105	\$916	\$7,021

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Versaggi, Dr. Nina M	Maser Consulting P.A.	East Fishkill Solar Project, Phase 1 CRS, Town of East Fishkill, Dutchess County, NY	100	\$4,827	\$724	\$5,551
Versaggi, Dr. Nina M	Broome County Department of Public Works	Phase 2/3 Archaeological Investigations, Otsiningo Stage Site, Otsiningo Park Stage Electrical Line Project, Broome County, NY	100	\$4,717	\$707	\$5,424
Versaggi, Dr. Nina M	Sage Engineering Associates	Phase 1B Archaeological Survey, Kesselring Site Clean Soils Management Area Expansion Project	100	\$4,699	\$705	\$5,404
Versaggi, Dr. Nina M	Lamont Engineers	Sidney Water System Improvement Project (16PR03281), (PA-02-NY-17=659-PW-4842) Phase 1 Archaeological Survey and Phase 1A Archaeological Assessment, Phase 1B Archaeological Survey for Phase 3 Well and Waterline from Well to CR 35	100	\$6,660	\$999	\$7,659
Versaggi, Dr. Nina M	Borton-Lawson Engineering Incorporated	Work Order 1- Phase 1 CRS, Sheldon Hill Bridgeline Project, Auburn & Springville Townships, Susquehanna County, PA	100	\$3,855	\$578	\$4,433
Versaggi, Dr. Nina M	C and S Engineering	Phase 3 Excavations for Task 1 (5X5M area) Glass Greenhouse Facility Project, Madison County NY	100	\$18,169	\$2,725	\$20,894
Versaggi, Dr. Nina M	Citizens and Northern Bank	Historic Resource Survey Form, 423-433 Reuter Boulevard Project, Town of Towanda, Bradford County, PA	100	\$3,336	\$500	\$3,836
Versaggi, Dr. Nina M	Housing Visions Unlimited Incorporated	Phase 1B Archaeological Survey, Harbor View Square Project, City of Oswego, Oswego County, NY	100	\$4,411	\$662	\$5,072
Versaggi, Dr. Nina M	C and S Engineering	Phase 1B Archaeological Survey (Electrical Transmission Line), Glass Greenhouse Facility Project, Madison County, NY	100	\$8,014	\$1,202	\$9,216
Versaggi, Dr. Nina M	Bethel Woods Center for the Arts	Exploratory Excavations and Community Outreach, Woodstock Stage Grounds Project, Bethel, Sullivan County, NY	100	\$12,057	\$1,809	\$13,865

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Versaggi, Dr. Nina M	Multiple Sponsors	Miscellaneous Income from PAF Activities	100	\$12,320	\$1,848	\$14,167
Versaggi, Dr. Nina M	Beardsley Design Associates	Phase 1B Archaeological Survey, Kesselring Site Perimeter Road Improvement Project (TOA-132-Item 1, Town of Milton, Saratoga County NY	100	\$12,743	\$1,911	\$14,654
Versaggi, Dr. Nina M	Maser Consulting P.A.	Phase 1A & 1B, CRS, Urbanski Solar Project, Town of Goshen, Orange County, NY	100	\$14,504	\$2,176	\$16,680
Versaggi, Dr. Nina M	Environmental Design & Research	Bluestone Wind- Change Order #1	100	\$24,382	\$3,657	\$28,039
Versaggi, Dr. Nina M	NYS Education Department	2018-2019 Admin Task 1001 Binghamton Highway Project	100	\$117,758	\$17,664	\$135,421
Versaggi, Dr. Nina M	NYS Education Department	Binghamton Cultural Resources Survey Program -2018/2019	100	\$460,297	\$69,045	\$529,342
Versaggi, Dr. Nina M	Sage Engineering Associates	Phase 1B Archaeological Survey, Kesselring Site Surge Suppression Transmission Line (TOA 344- Item 2) Town of Milton, Saratoga County NY	100	\$943	\$141	\$1,085
Versaggi, Dr. Nina M	C and S Engineering	Phase 1B CRS (Gas Transmission Alternate Option#2, Apx 43 STPs), Glass Greenhouse Facility Project, Madison County, NY	100	\$2,964	\$445	\$3,409
Versaggi, Dr. Nina M	Maser Consulting P.A.	Phase 1A & 1B CRS, Varano Solar Project, Town of Goshen, Orange County, NY	100	\$14,462	\$2,169	\$16,631
Versaggi, Dr. Nina M	Train Hard Fitness	Phase 1 Archaeological Survey, Train Hard Fitness Project, Town of Clay, Onondaga County, NY	100	\$1,761	\$264	\$2,025
Versaggi, Dr. Nina M	Village of Horseheads	Community Outreach Pamphlet, Horseheads Waterline Project, Horseheads, Chemung County, NY	100	\$745	\$112	\$856

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Versaggi, Dr. Nina M	C and S Engineering	Cultural Resource Screening FCC 620, Bevis Hill Tower, Schenectady County, NY	100	\$1,391	\$209	\$1,600
Versaggi, Dr. Nina M	C and S Engineering	CRS (FCC 620) Sanford Laurel Lake Road Tower, Broome County NY	100	\$1,237	\$186	\$1,423
Versaggi, Dr. Nina M	Broome County Department of Public Works	Phase 1 Archaeological Survey, Buried Electrical Line, Otsiningo Park Stage Project, Broome County, NY	100	\$47	\$7	\$54
Versaggi, Dr. Nina M	Owego Apalachin Central School District	Phase 1 Archaeological Survey, Apalachin Elementary School Parking Project, Tioga County, NY	100	\$1,496	\$224	\$1,720
Versaggi, Dr. Nina M	C and S Engineering	CRS (FCC 620), Sanford Lower Tower Project, Marsh Pond Road, Broome County, NY	100	\$1,502	\$225	\$1,727
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	\$1,597	\$239	\$1,836
Versaggi, Dr. Nina M	C and S Engineering	CRS (FCC 620) Nabinger Hill Rd Tower, Ninevah, Broome County, NY	100	\$1,604	\$241	\$1,845
Versaggi, Dr. Nina M	Stantec Consulting Services Inc	Harney Road Bridge- Phase 1 CRS- Town of Plattsburgh/ Schuylar Falls, Clinton County NY	100	\$2,613	\$392	\$3,005
Versaggi, Dr. Nina M	C and S Engineering	CRS (FCC 620), Short Track Toad Project, Livingston County, NY	100	\$1,735	\$260	\$1,995
Versaggi, Dr. Nina M	C and S Engineering	Phase 1A CRA/ Phase 1B Work Plan (Greenhouse Facility, Electrical Transmission Line and Gas Transmission Line), Project Glass Greenhouse Facility, Town of Lenox, Madison County, NY	100	\$232	\$35	\$267
Versaggi, Dr. Nina M	Village of Waverly	Phase 1 Archaeological Survey, Waverly Glen Park Improvement Projects, OPRHP CFA, Village of Waverly, Tioga County, NY	100	\$1,806	\$271	\$2,077

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Versaggi, Dr. Nina M	Larson Design Group	Phase 1 Archaeological Survey, Loyalsock State Forest Flood Repairs Project, McIntyre Township, Lycoming County, PA	100	\$1,860	\$279	\$2,139
Versaggi, Dr. Nina M	West Wind Ag LLC	Phase 2 Site Examinations- Locus 1-3 of Czub Precontact Site, Town of Schaghticoke, Rensselaer County, NY	100	\$1,871	\$281	\$2,151
Versaggi, Dr. Nina M	C and S Engineering	Phase 1B Archaeological Survey (Gas Transmission Line), Glass Greenhouse Facility Project, Madison County, NY	100	\$2,008	\$301	\$2,309
Versaggi, Dr. Nina M	Town of Marshall	Phase 2 Site Exam- Marshall Gravel Precontact Site, Town of Kirkland, Oneida County, NY	100	\$2,021	\$303	\$2,325
Versaggi, Dr. Nina M	Onondaga County Soil and Water Conservation Dist	Carley Farm Project, Phase 1A & 1B Archaeological Survey, Town of Pompey, Onondaga County, NY	100	\$2,185	\$328	\$2,513
Versaggi, Dr. Nina M	Renovus Solar	Phase 1 Archaeological Survey, Renovus Tioga Solar Farm Project, Town of Tioga, Tioga County, New York	100	\$2,290	\$344	\$2,634
Versaggi, Dr. Nina M	Maser Consulting P.A.	Key Capture Energy NYS3 Battery Storage Project, Phase 1 CRS, 23 Ditzles Road, Town of Ramapo NY - Tax Map Parcel No. 32-07-1-1	100	\$2,585	\$388	\$2,973
Versaggi, Dr. Nina M	LaBella Associates	NYSEG Circuit 879 Project, Phase 1A CRA, Clinton County, NY	100	\$1,681	\$252	\$1,933
				Department Total:	\$1,655,578	
020 Research VP						
Park, Dr. Seungbae	Multiple Sponsors	Electronics Packaging Symposium 2017 and 2018	100	\$1,859	\$372	\$2,231
Park, Dr. Seungbae	Multiple Sponsors	Symposium and Other IEEC Activities	100	\$27	\$7	\$34

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Sammakia, Dr. Bahgat G	National Science Foundation	Collaborative Center: I/UCRC in Center for Energy-Smart Electronic Systems (ES2)	50	\$1,670	\$918	\$2,588
Sammakia, Dr. Bahgat G	National Science Foundation	Collaborative Center: I/UCRC in Center for Energy-Smart Electronic Systems (ES2)	50	\$59,315	\$4,246	\$63,562
Turner, Mr. James N	Empire State Development Corp	Match to Improved ECG Monitor with Capacitive Electrodes	20	\$3,074	\$1,752	\$4,826
Turner, Mr. James N	Flex Tech Alliance	Improved ECG Monitor with Capacitive Electrodes	20	\$3,080	\$1,755	\$4,835

Department Total: \$78,076

020 School Of Management Acad

Cui, Dr. Leon	Adobe Systems Incorporated	Unrestricted Research Support	100	\$1,699	\$255	\$1,954
Dionne, Ms. Shelley	US Army Research Institute	Collective Planning and Leadership for the US Army	33.3	\$71,214	\$12,176	\$83,390
Dionne, Ms. Shelley	National Science Foundation	Diversity, Network Structure, and the Effectiveness of Collective Design and Innovation	33.33	\$1,492	\$0	\$1,492
Dionne, Ms. Shelley	National Science Foundation	Diversity, Network Structure, and the Effectiveness of Collective Design and Innovation	33.33	\$23,897	\$13,084	\$36,981
Iankova, Ms. Elena	Multiple Sponsors	Income Account for Award 78504	100	\$11,100	\$0	\$11,100
Iankova, Ms. Elena	Appalachian Regional Commission	Center for International Business Advancement at Binghamton University	100	\$52,299	\$0	\$52,299

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Yammarino, Dr. Francis J	National Science Foundation	Diversity, Network Structure, and the Effectiveness of Collective Design and Innovation	33.33	\$1,492	\$0	\$1,492
Yammarino, Dr. Francis J	Multiple Sponsors	Miscellaneous Income - Fran Yammarino	100	\$4,811	\$722	\$5,532
Yammarino, Dr. Francis J	National Science Foundation	Diversity, Network Structure, and the Effectiveness of Collective Design and Innovation	33.33	\$23,897	\$13,084	\$36,981
Yammarino, Dr. Francis J	US Army Research Institute	Collective Planning and Leadership for the US Army	33.4	\$71,428	\$12,213	\$83,641
Yebba, Dr. Alfred	NYS Office of the State Comptroller	Audit Review Contract	100	\$2,822	\$1,552	\$4,374

Department Total: \$319,236

020 School Of Management Admin

Dhillon, Dr. Upinder	Multiple Sponsors	Award for School of Management Personnel Costs	100	\$39,138	\$5,871	\$45,008
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Department Total: \$45,008

020 School of Nursing Academic

Bryant, Dr. Sharon A	US Department of Education	Binghamton University Upward Bound Math and Science	100	\$35,367	\$0	\$35,367
Bryant, Dr. Sharon A	US Department of Education	Binghamton University Upward Bound Math and Science	100	\$233,658	\$18,693	\$252,351
Bryant, Dr. Sharon A	NYS Education Department	Science and Technology Entry Program STEP 2018-2019	50	\$51,359	\$3,605	\$54,963

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Bryant, Dr. Sharon A	NYS Education Department	Science and Technology Entry Program (STEP) 2017-2018	50	\$6,391	\$266	\$6,657
Bryant, Dr. Sharon A	US Department of Education	Binghamton University Upward Bound Math and Science	100	\$3,880	\$0	\$3,880
Bryant, Dr. Sharon A	NYS Education Department	Collegiate Science and Technology Entry Program (CSTEP) 2018-2019	100	\$179,222	\$11,942	\$191,163
Bryant, Dr. Sharon A	NYS Education Department	Collegiate Science and Technology Entry Program (CSTEP) 2017-2018	100	\$30,243	\$654	\$30,897
Froncek, Ms. Cindy L.	Health Resources and Services Admin	Advanced Nursing Education Workforce	33	\$151,475	\$23,425	\$174,900
Fronczek, Ms. Ann	Health Resources and Services Admin	Advanced Nursing Education Workforce	33	\$74,904	\$30,618	\$105,522
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	\$185,762	\$0	\$185,762
Johnston, Ms. Yvonne	Rural Health Network of South Central New York	South Central NY Fruit and Vegetable Prescription Program (FVRx)	100	\$9,964	\$1,495	\$11,459
Rouhana, Ms. Nicole A.	Health Resources and Services Admin	Advanced Nursing Education Workforce	34	\$77,174	\$31,545	\$108,719
Rouhana, Ms. Nicole A.	Health Resources and Services Admin	Advanced Nursing Education Workforce	34	\$156,065	\$24,135	\$180,200
Stewart-Fahs, Dr. Pamela S.	Health Resources and Services Admin	Advanced Nursing Education Workforce	33	\$151,475	\$23,425	\$174,900

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
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Stewart-Fahs, Dr. Pamela S.	Health Resources and Services Admin	Advanced Nursing Education Workforce	33	\$74,904	\$30,618	\$105,522
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Department Total: \$1,622,263

020 Small Business Dev Center

Layman, Ms. Rochelle	Small Business Administration	SBDC 2018/2019	100	\$190,724	\$22,887	\$213,611
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Layman, Ms. Rochelle	Small Business Administration	SBDC 2017/2018	100	\$168,013	\$20,162	\$188,175
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Layman, Ms. Rochelle	Multiple Sponsors	Miscellaneous Income- Small Business Development Center Activities	100	\$24,853	\$3,728	\$28,581
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Layman, Ms. Rochelle	Housing Trust Fund Corporation	Hurricane Sandy NYSESD Relief Program	100	\$14,372	\$2,012	\$16,384
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Layman, Ms. Rochelle	Small Business Administration	SBTDC - Federal and State Technology (FAST) Partnership 2018/2019	100	\$203	\$24	\$227
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Layman, Ms. Rochelle	Multiple Sponsors	Program Income Account for SBDC Training Activities Associated with federal SBA funding	100	\$3,388	\$180	\$3,568
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Department Total: \$450,546

020 Sociology

Lee, Dr. Richard E	Multiple Sponsors	Income for Fernand Braudel Center Activities	100	\$12,487	\$1,873	\$14,360
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Department Total: \$14,360

020 Student Affairs V P

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Baldwin, Ms. Nita L.	US Department of Education	Binghamton University Upward Bound Rural Program	100	\$255,048	\$20,404	\$275,451
Baldwin, Ms. Nita L.	US Department of Education	2018-2020 Binghamton University Upward Bound Program	100	\$382,599	\$30,608	\$413,207
Marulli, Ms. Erin	United Way of Broome County Inc	Adult Empowerment Series	100	\$5,075	\$761	\$5,837
Rebello, Mr. Stephen Michael	US Department of Education	2018-2020 Binghamton University Upward Bound Program	100	\$44,126	\$0	\$44,126
Rebello, Mr. Stephen Michael	US Department of Education	SSS-STEM Program at Binghamton University	100	\$235,874	\$18,870	\$254,744
Rebello, Mr. Stephen Michael	US Department of Education	2016-2021 Student Support Services Program	100	\$331,900	\$26,552	\$358,452
Rebello, Mr. Stephen Michael	US Department of Education	SSS-STEM Program at Binghamton University	100	\$12,000	\$0	\$12,000
Rebello, Mr. Stephen Michael	US Department of Education	Binghamton University Upward Bound Rural Program	100	\$24,316	\$0	\$24,316
Rebello, Mr. Stephen Michael	US Department of Education	2016-2021 Student Support Services Program	100	\$37,782	\$0	\$37,782
Wygmans, Ms. Martha S.	US Department of Education	2015/2016 Binghamton University Upward Bound Program	100	\$4,561	\$365	\$4,926

Department Total: \$1,430,841

020 Systems Science and Indust Eng (SSIE)

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Borgesen, Mr. Peter	Multiple Sponsors	International Visiting Research Scholar Activities	100	\$2,817	\$704	\$3,522
Borgesen, Mr. Peter	Purdue University	CHIRP: Alternative Fine Pitch Interconnect Technologies for SiPs (Proposal Number W32617)	100	\$2,985	\$1,702	\$4,687
Chung, Dr. Sunghoon	Laufer Group International Limited	Review and Re-Engineering of Operations at Laufer Group International	50	\$3,841	\$999	\$4,840
Chung, Dr. Sunghoon	Materials Handling Industry	MHI and CICMHE Research Funding Program Start-up Grant	100	\$9,873	\$0	\$9,873
Greene, Dr. Christopher M	Smart Modular Technologies Inc	Process Research and Development for Complex Surface Mount Device Assemblies	50	\$7,054	\$1,834	\$8,888
Greene, Dr. Christopher M	Lockheed Martin Corporation	Unrestricted Research Support from Lockheed Martin to Investigate Additive Manufacturing Utilized in Electronics Mfg; Capability and Application Projects:	100	\$7,705	\$4,315	\$12,020
Greene, Dr. Christopher M	Smart Modular Technologies Inc	Process Research and Development for Complex Surface Mount Device Assemblies	50	\$19,051	\$4,130	\$23,181
Khasawneh, Dr. Mohammad	Navicent Health	Healthcare Systems Engineering, Operations management and Data Science Support	50	\$39,821	\$8,679	\$48,500
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	\$185,762	\$0	\$185,762
Khasawneh, Dr. Mohammad	LiveOnNY	Performance Improvement of Clinical Practices and Operations Research 18-19	34	\$17,683	\$3,542	\$21,225
Khasawneh, Dr. Mohammad	LiveOnNY	Qualitative Analysis of Psychosocial Factors linked to Authorization for the Donation of Vascularized Composit Allografts	100	\$56,077	\$12,774	\$68,851

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Khasawneh, Dr. Mohammad	United Health Services Hospitals Incorporated	Business Intelligence and Performance Improvement at UHSH	50	\$33,802	\$8,788	\$42,590
Khasawneh, Dr. Mohammad	Memorial Sloan Kettering Cancer Center	Improving Quality, Safety, and Patient Flow and Outpatient Medication Management	50	\$29,494	\$7,668	\$37,162
Khasawneh, Dr. Mohammad	EwingCole	Healthcare Design Research and Development for Operational Efficiency and Value Creation	50	\$22,659	\$5,769	\$28,427
Khasawneh, Dr. Mohammad	Christiana Care Health Services Incorporated	Organizational Excellence Support at Christiana Care	50	\$23,201	\$4,603	\$27,804
Khasawneh, Dr. Mohammad	Memorial Sloan Kettering Cancer Center	Improving Quality, Safety and Patient Flow and outpatient Medication Management - Amend. 1	50	\$8,167	\$2,123	\$10,290
Khasawneh, Dr. Mohammad	Montefiore Hospital and Medical Center	Improving the Efficiency and Effectiveness of Healthcare Delivery Amendments 10, 13 and 15, 17	50	\$6,945	\$1,699	\$8,644
Khasawneh, Dr. Mohammad	Montefiore Hospital and Medical Center	Improving The Efficiency and Effectiveness of Healthcare Delivery	50	\$6,597	\$1,715	\$8,313
Khasawneh, Dr. Mohammad	Finger Lakes Community Health (FLCH)	Population Health and Operations Management for Sustainable and Comprehensive Quality Care	50	\$4,147	\$1,078	\$5,225
Khasawneh, Dr. Mohammad	United Health Services Hospitals Incorporated	Business Intelligence & Performance Improvement at UHS	50	\$122,245	\$26,527	\$148,772
Khasawneh, Dr. Mohammad	Montefiore Hospital and Medical Center	Business Process Engineering Support for Network Management Systems (CMO) Amendments 12, 16	50	\$3,024	\$786	\$3,810
Khasawneh, Dr. Mohammad	Laufer Group International Limited	Review and Re-Engineering of Operations at Laufer Group International	25	\$1,921	\$499	\$2,420

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Khasawneh, Dr. Mohammad	LiveOnNY	Performance Improvement of Clinical Practices & Operations Research	34	(\$5)	(\$1)	(\$6)
Khasawneh, Dr. Mohammad	Cooper University Health Care	Redesign of Care Processes and Workflows to Facilitate the Implementation of a Customer Relationship Management System (Amendment #4: Agreement #15010071)	50	\$13,150	\$3,296	\$16,446
Lam, Dr. Sarah	IBM Corporation	Business Intelligence and Analytics for Server Manufacturing	50	\$9,613	\$2,377	\$11,989
Nagarur, Dr. Nagendra	Sanmina Corporation	Automation and Process Improvement in a Contract Manufacturing Company	50	\$3,607	\$938	\$4,545
Nagarur, Dr. Nagendra	Jabil Circuit Incorporated	Medical/ Diagnostic Devices and Enterprise Systems	50	\$25,878	\$4,908	\$30,786
Nagarur, Dr. Nagendra	Jabil Circuit Incorporated	Medical/ Diagnostic Devices and Enterprise Systems PO 4100871142, PO 4100940494, PO 410121502	50	\$1,249	\$325	\$1,574
Nagarur, Dr. Nagendra	Sanmina Corporation	Research in Electronics Manufacturing and Automation	50	\$29,927	\$5,441	\$35,368
Poliks, Dr. Mark D	Flex Tech Alliance	NextFlex Project 2.8 Assessment and Optimization of the Reliability of Wearable Performance Monitors	100	\$253,067	\$8,456	\$261,523
Poliks, Dr. Mark D	Empire State Development Corp	ESD Funded- AFRL Flexible Hybrid Electronics Phase 0 Foundational Engineering Problem	100	\$66,670	\$35,991	\$102,661
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	\$523,620	\$14,250	\$537,870
Poliks, Dr. Mark D	NextFlex	3.7(a) Disposable and Adjustable Vital Sign Monitoring Device	100	\$367,227	\$28,500	\$395,727

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match- NextFlex Project 2.8	100	\$297,775	\$8,416	\$306,192
Poliks, Dr. Mark D	Empire State Development Corp	Operational Account	100	\$165,873	\$67,044	\$232,917
Poliks, Dr. Mark D	Empire State Development Corp	FlexTech Alliance Capital Matching Award to 3.1 Additively Printed Circuit Elements for Antenna & Microwave	100	\$179,532	\$28,500	\$208,032
Poliks, Dr. Mark D	Flex Tech Alliance	Asset Monitoring- Open Project Call (project number 11002)	100	\$162,900	\$14,250	\$177,150
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match to Asset Monitoring Award with GE	100	\$162,900	\$14,250	\$177,150
Poliks, Dr. Mark D	Flex Tech Alliance	NextFlex- AFRL Flexible Hybrid Electronics Phase 0 Foundational Engineering Problem	100	\$67,682	\$36,568	\$104,251
Poliks, Dr. Mark D	NextFlex	3.7(a) Disposable and Adjustable Vital Sign Monitoring Device	100	\$50,297	\$22,316	\$72,613
Poliks, Dr. Mark D	Empire State Development Corp	FlexTech Alliance Capital Matching Award to 3.1 Additively Printed Circuit Elements for Antenna & Microwave	100	\$37,180	\$20,923	\$58,103
Poliks, Dr. Mark D	Lockheed Martin Corporation	NextFlex Project 3.1 Additively Printed Circuit Elements for Antenna & Microwave	100	\$37,121	\$20,890	\$58,011
Poliks, Dr. Mark D	Analog Devices, Incorporated	Critical materials, surfaces, and interfaces for advanced packaging	100	\$34,288	\$15,586	\$49,873
Poliks, Dr. Mark D	Analog Devices, Incorporated	Manufacturing Process Optimization for Critical Device Packages	100	\$10,548	\$5,426	\$15,974

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Poliks, Dr. Mark D	Analog Devices, Incorporated	Critical Materials, Surfaces, and Interfaces for Advanced Packaging	100	\$7,138	\$1,856	\$8,994
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match to Asset Monitoring Award with GE	100	\$1,983	\$1,130	\$3,114
Poliks, Dr. Mark D	Flex Tech Alliance	Improved ECG Monitor with Capacitive Electrodes	20	\$3,080	\$1,755	\$4,835
Poliks, Dr. Mark D	Lockheed Martin Corporation	NextFlex Project 3.1 Additively Printed Circuit Elements for Antenna & Microwave	100	\$303,457	\$42,750	\$346,207
Poliks, Dr. Mark D	Empire State Development Corp	Match to Improved ECG Monitor with Capacitive Electrodes	20	\$3,074	\$1,752	\$4,826
Poliks, Dr. Mark D	Flex Tech Alliance	Asset Monitoring- Open Project Call (project number 11002)	100	\$2,059	\$1,174	\$3,233
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	\$55,092	\$25,050	\$80,142
Santos, Dr. Daryl L	Smart Modular Technologies Inc	Failure Analysis and Reliability Research For DRAM and Flash Memory Products	50	\$4,862	\$1,264	\$6,127
Santos, Dr. Daryl L	General Electric Global Research	Research in Radio Frequency and Power Packaging Technologies	50	\$7,433	\$4,237	\$11,669
Santos, Dr. Daryl L	General Electric Global Research	Research in Radio Frequency and Power Packaging Technologies	50	\$472	\$0	\$472
Santos, Dr. Daryl L	Analog Devices, Incorporated	System in Package (SiP) Assembly Engineering Research and Development PO 45572734, 45631054	50	\$27,598	\$6,395	\$33,993

<u><i>Investigator</i></u>	<u><i>Sponsor Name</i></u>	<u><i>Award Title</i></u>	<u><i>% Credited to Investigator</i></u>	<u><i>Direct Costs Expended</i></u>	<u><i>F & A Expended</i></u>	<u><i>Total Expended</i></u>
Sayama, Dr. Hiroki	US Army Research Institute	Collective Planning and Leadership for the US Army	33.3	\$71,214	\$12,176	\$83,390
Sayama, Dr. Hiroki	National Science Foundation	Diversity, Network Structure, and the Effectiveness of Collective Design and Innovation	33.34	\$1,492	\$0	\$1,492
Sayama, Dr. Hiroki	National Science Foundation	Diversity, Network Structure, and the Effectiveness of Collective Design and Innovation	33.34	\$23,905	\$13,087	\$36,992
Sayama, Dr. Hiroki	University of Georgia	Modeling Anhedonia in Schizophrenia: A Stochastic Dynamical Systems Approach 1R21MH112925-01	100	\$24,446	\$12,643	\$37,089
Srihari, Dr. Krishnaswami	Sanmina Corporation	Research in Electronics Manufacturing and Automation	50	\$29,927	\$5,441	\$35,368
Srihari, Dr. Krishnaswami	LiveOnNY	Performance Improvement of Clinical Practices and Operations Research 18-19	33	\$17,163	\$3,438	\$20,600
Srihari, Dr. Krishnaswami	Raymond Corporation	Supporting New Logistic Network and Transportation System Implementation	50	\$15,448	\$3,386	\$18,834
Srihari, Dr. Krishnaswami	Smart Modular Technologies Inc	Process Research and Development for Complex Surface Mount Device Assemblies	50	\$19,051	\$4,130	\$23,181
Srihari, Dr. Krishnaswami	Christiana Care Health Services Incorporated	Organizational Excellence Support at Christiana Care	50	\$23,201	\$4,603	\$27,804
Srihari, Dr. Krishnaswami	EwingCole	Healthcare Design Research and Development for Operational Efficiency and Value Creation	50	\$22,659	\$5,769	\$28,427
Srihari, Dr. Krishnaswami	Jabil Circuit Incorporated	Medical/ Diagnostic Devices and Enterprise Systems	50	\$25,878	\$4,908	\$30,786

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Srihari, Dr. Krishnaswami	Cooper University Health Care	Redesign of Care Processes and Workflows to Facilitate the Implementation of a Customer Relationship Management System (Amendment #4: Agreement #15010071)	50	\$13,150	\$3,296	\$16,446
Srihari, Dr. Krishnaswami	Analog Devices, Incorporated	System in Package (SiP) Assembly Engineering Research and Development PO 45572734, 45631054	50	\$27,598	\$6,395	\$33,993
Srihari, Dr. Krishnaswami	Memorial Sloan Kettering Cancer Center	Improving Quality, Safety, and Patient Flow and Outpatient Medication Management	50	\$29,494	\$7,668	\$37,162
Srihari, Dr. Krishnaswami	General Electric Global Research	Research in Radio Frequency and Power Packaging Technologies	100	\$23,988	\$14,007	\$37,994
Srihari, Dr. Krishnaswami	United Health Services Hospitals Incorporated	Business Intelligence and Performance Improvement at UHSH	50	\$33,802	\$8,788	\$42,590
Srihari, Dr. Krishnaswami	Smart Modular Technologies Inc	Reliability Analysis and Research for DRAM and Flash Memory Products	100	\$40,612	\$7,585	\$48,196
Srihari, Dr. Krishnaswami	Navicent Health	Healthcare Systems Engineering, Operations management and Data Science Support	50	\$39,821	\$8,679	\$48,500
Srihari, Dr. Krishnaswami	Smart Modular Technologies Inc	Quality Engineering Research and Development for Complex Surface Mount Device Assemblies	100	\$53,785	\$10,864	\$64,650
Srihari, Dr. Krishnaswami	Innovation Associates	Enhancement of Symphony Pharmacy Workflow System to Support Net Framework	50	\$55,197	\$10,986	\$66,183
Srihari, Dr. Krishnaswami	United Health Services Hospitals Incorporated	Business Intelligence & Performance Improvement at UHS	50	\$122,245	\$26,527	\$148,772
Srihari, Dr. Krishnaswami	Bennett Distribution Services Limited Liability Corporation	Warehouse Operations Management and Analytics Research and Development	100	\$12,891	\$3,352	\$16,242

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Srihari, Dr. Krishnaswami	Finger Lakes Community Health (FLCH)	Population Health and Operations Management for Sustainable and Comprehensive Quality Care	50	\$4,147	\$1,078	\$5,225
Srihari, Dr. Krishnaswami	Innovation Associates	Intelligent Pharmacy Solutions Using Simulation, Artificial Intelligence, Reliability, and Quotation	50	\$93,259	\$17,892	\$111,151
Srihari, Dr. Krishnaswami	Smart Modular Technologies Inc	Quality Engineering Research and Development for Complex Surface Mount Device Assemblies	100	\$2,114	\$550	\$2,663
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	\$4,458	\$2,452	\$6,910
Srihari, Dr. Krishnaswami	Analog Devices General Trias Incorporated	Dispatching Process Automation and Demand Signal Analysis in Semiconductor Manufacturing (ADGT Philippines)	50	\$10,526	\$5,530	\$16,056
Srihari, Dr. Krishnaswami	LiveOnNY	Performance Improvement of Clinical Practices & Operations Research	33	(\$5)	(\$1)	(\$6)
Srihari, Dr. Krishnaswami	Raymond Corporation	Support for the Plan of Every Part (PFEP) in Materials Handling and Logistics	50	\$295	\$77	\$372
Srihari, Dr. Krishnaswami	General Electric Global Research	Research in Radio Frequency and Power Packaging Technologies	50	\$472	\$0	\$472
Srihari, Dr. Krishnaswami	Laufer Group International Limited	Review and Re-Engineering of Operations at Laufer Group International	25	\$1,921	\$499	\$2,420
Srihari, Dr. Krishnaswami	Montefiore Hospital and Medical Center	Business Process Engineering Support for Network Management Systems (CMO) Amendments 12, 16	50	\$3,024	\$786	\$3,810
Srihari, Dr. Krishnaswami	Sanmina Corporation	Automation and Process Improvement in a Contract Manufacturing Company	50	\$3,607	\$938	\$4,545

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Srihari, Dr. Krishnaswami	Analog Devices General Trias Incorporated	Demand Signal Analysis and Dispatching Process Automation in Semiconductor Manufacturing Project 2- ADGT Dispatching Process Automation	34	\$3,164	\$1,740	\$4,903
Srihari, Dr. Krishnaswami	General Electric Global Research	Research in Radio Frequency and Power Packaging Technologies	50	\$7,433	\$4,237	\$11,669
Srihari, Dr. Krishnaswami	Smart Modular Technologies Inc	Failure Analysis and Reliability Research For DRAM and Flash Memory Products	50	\$4,862	\$1,264	\$6,127
Srihari, Dr. Krishnaswami	Raymond Corporation	Streamlining Logistics Network and Transportation Processes	50	\$5,676	\$1,476	\$7,152
Srihari, Dr. Krishnaswami	IBM Corporation	Business Intelligence and Analytics for Server Manufacturing	50	\$9,613	\$2,377	\$11,989
Srihari, Dr. Krishnaswami	Montefiore Hospital and Medical Center	Improving The Efficiency and Effectiveness of Healthcare Delivery	50	\$6,597	\$1,715	\$8,313
Srihari, Dr. Krishnaswami	Innovation Associates	Modernizing Symphony Standard to VB. Net Platform and Applying Business Intelligence	50	\$9,401	\$2,444	\$11,846
Srihari, Dr. Krishnaswami	Smart Modular Technologies Inc	Process Research and Development for Complex Surface Mount Device Assemblies	50	\$7,054	\$1,834	\$8,888
Srihari, Dr. Krishnaswami	Memorial Sloan Kettering Cancer Center	Improving Quality, Safety and Patient Flow and outpatient Medication Management - Amend. 1	50	\$8,167	\$2,123	\$10,290
Srihari, Dr. Krishnaswami	Jabil Circuit Incorporated	Medical/ Diagnostic Devices and Enterprise Systems PO 4100871142, PO 4100940494, PO 410121502	50	\$1,249	\$325	\$1,574
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	25	\$307	\$175	\$482

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
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	\$4,327	\$2,380	\$6,707
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	\$3,070	\$1,689	\$4,759
Yoon, Dr. Sangwon	Innovation Associates	Intelligent Pharmacy Solutions Using Simulation, Artificial Intelligence, Reliability, and Quotation	50	\$93,259	\$17,892	\$111,151
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	\$9,614	\$5,384	\$14,997
Yoon, Dr. Sangwon	Innovation Associates	Enhancement of Symphony Pharmacy Workflow System to Support Net Framework	50	\$55,197	\$10,986	\$66,183
Yoon, Dr. Sangwon	LiveOnNY	Performance Improvement of Clinical Practices and Operations Research 18-19	33	\$17,163	\$3,438	\$20,600
Yoon, Dr. Sangwon	Raymond Corporation	Supporting New Logistic Network and Transportation System Implementation	50	\$15,448	\$3,386	\$18,834
Yoon, Dr. Sangwon	Analog Devices General Trias Incorporated	Dispatching Process Automation and Demand Signal Analysis in Semiconductor Manufacturing (ADGT Philippines)	50	\$10,526	\$5,530	\$16,056
Yoon, Dr. Sangwon	Raymond Corporation	Streamlining Logistics Network and Transportation Processes	50	\$5,676	\$1,476	\$7,152
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	\$4,327	\$2,380	\$6,707

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Yoon, Dr. Sangwon	Analog Devices General Trias Incorporated	Demand Signal Analysis and Dispatching Process Automation in Semiconductor Manufacturing Project 2- ADGT Dispatching Process Automation	33	\$3,070	\$1,689	\$4,759
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	25	\$307	\$175	\$482
Yoon, Dr. Sangwon	LiveOnNY	Performance Improvement of Clinical Practices & Operations Research	33	(\$5)	(\$1)	(\$6)
Yoon, Dr. Sangwon	Raymond Corporation	Support for the Plan of Every Part (PFEP) in Materials Handling and Logistics	50	\$295	\$77	\$372
Yoon, Dr. Sangwon	Innovation Associates	Modernizing Symphony Standard to VB. Net Platform and Applying Business Intelligence	50	\$9,401	\$2,444	\$11,846
Zadehsabounchi, Ms. Nasim	Yale University	CT DPH Prescription Drug Overdose Prevention for States- Amendment 1	100	\$5,858	\$3,339	\$9,197
Zadehsabounchi, Ms. Nasim	Yale University	CT DPH Prescription Drug Overdose Prevention for States	100	\$14,101	\$8,037	\$22,138
				Department Total:	\$5,540,642	
020 Univ Police Admin						
Hubeny, Mr. David	Multiple Sponsors - Nonsponsored	2019 NYS College and University Emergency Management Workshop	100	\$7,593	\$987	\$8,580
				Department Total:	\$8,580	
020 Watson School Deans Office						
Borgesen, Mr. Peter	NYS Education Department	Science and Technology Entry Program (STEP) 2017-2018	50	\$6,391	\$266	\$6,657

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Ghose, Dr. Kanad	Future Facilities Incorporated	Future Facilities ES2 Membership	50	\$12,092	\$1,209	\$13,302
Ghose, Dr. Kanad	Bloomberg LP	Industry/University Cooperative Research Center in Energy-Smart Electronic Systems Membership (ES2)	50	\$45,289	\$4,529	\$49,818
Ghose, Dr. Kanad	Xilinx	Xilinx I/UCRC Membership 2017-2022	50	\$27,844	\$2,784	\$30,628
Ghose, Dr. Kanad	Futurewei Technologies	Futurewei Membership in I/UCRC ES2 (2018-2019)	50	\$26,568	\$2,657	\$29,225
Ghose, Dr. Kanad	National Science Foundation	Phase II IUCRC Binghamton University Center for Energy-Smart Electronic Systems (ES2)	50	\$55,162	\$30,904	\$86,066
Ghose, Dr. Kanad	Villanova University	PHASE II- IUCRC Center for Energy-Smart Electronic Systems - Subaward 525877 FleischerBinghamton	50	\$9,812	\$5,582	\$15,394
Ghose, Dr. Kanad	Xilinx	ES2 Membership Agreement	50	\$3,132	\$313	\$3,445
Ghose, Dr. Kanad	Corning Incorporated	Corning's Membership in the I/UCRC for Energy-Smart Electronic Systems	50	\$2,916	\$292	\$3,207
Ghose, Dr. Kanad	Futurewei Technologies	Futurewei Membership Agreement I/UCRC	50	\$340	\$34	\$374
Ghose, Dr. Kanad	Future Facilities Incorporated	Future Facilities ES2 Membership	50	\$1	\$0	\$1
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	\$11,588	\$6,605	\$18,192

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Ghose, Dr. Kanad	NYS Energy Research and Development Authority	NYSERDA's membership in the I/UCRC for Energy-Smart Electronics Systems	100	\$4,585	\$917	\$5,502
Keesler, Ms. Janet	Iberdrola USA Foundation	Watson School Capstone Senior Capstone Design Experience	100	\$1,437	\$0	\$1,437
Majors, Ms. Monica	National Science Foundation	2015-2018 SUNY LSAMP Bridge to the Doctorate at Binghamton University	100	\$27,983	\$0	\$27,983
Majors, Ms. Monica	NYS Education Department	Science and Technology Entry Program STEP 2018-2019	50	\$51,359	\$3,605	\$54,963
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	\$108,669	\$10,400	\$119,069
Murray, Dr. Bruce T	Future Facilities Incorporated	Future Facilities ES2 Membership	25	\$0	\$0	\$0
Murray, Dr. Bruce T	Corning Incorporated	Corning's Membership in the I/UCRC for Energy-Smart Electronic Systems	25	\$1,458	\$146	\$1,604
Murray, Dr. Bruce T	Xilinx	ES2 Membership Agreement	25	\$1,566	\$157	\$1,723
Park, Dr. Seungbae	Xilinx	IEEC Center Membership Agreement	100	\$26,429	\$5,286	\$31,715
Park, Dr. Seungbae	BAE Systems Controls Incorporated	BAE Full Membership in the IEEC 2018/2019	100	\$73,480	\$14,696	\$88,176
Park, Dr. Seungbae	i3 Electronics Incorporated	IEEC Membership 2015/2020 -i3 Electronics	100	\$5,925	\$1,185	\$7,110

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Park, Dr. Seungbae	MACOM Technical Solutions Incorporated	MACOM IEEC Membership	100	\$6,649	\$1,330	\$7,979
Park, Dr. Seungbae	Sanmina Corporation	2018-2020 Sanmina IEEC Membership	100	\$6,653	\$1,331	\$7,984
Park, Dr. Seungbae	Ashlawn Energy, LLC	Ashlawn Energy 2019-2020 IEEC Membership	100	\$11,279	\$2,256	\$13,535
Park, Dr. Seungbae	Analog Devices, Incorporated	Analog Devices Membership in the IEEC 2018-2019	100	\$13,920	\$2,784	\$16,704
Park, Dr. Seungbae	NYS Department of Economic Development	Center for Advanced Technology September 1, 2015-June 30, 2020	100	\$15,137	\$1,687	\$16,824
Park, Dr. Seungbae	Prismark Partners LLC	Prismark Partner's Participating Membership in the IEEC	100	\$20,834	\$4,167	\$25,001
Park, Dr. Seungbae	NYS Department of Economic Development	Center for Advanced Technology September 1, 2015-June 30, 2020	100	\$52,018	\$263	\$52,281
Park, Dr. Seungbae	Juniper Networks Incorporated	Juniper Network Membership in the IEEC	100	\$45,901	\$9,180	\$55,082
Park, Dr. Seungbae	Advanced Semiconductor Engineering Incorporated	ASE's Membership in the IEEC, 2015-2019	100	\$49,856	\$9,971	\$59,827
Park, Dr. Seungbae	Lockheed Martin Corporation	Lockheed Martin's IEEC Membership	100	\$49,997	\$9,999	\$59,997
Park, Dr. Seungbae	IBM Corporation	IEEC Membership- IBM 2018-2022 Agreement No 4913015695.1	100	\$51,358	\$10,272	\$61,629

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Park, Dr. Seungbae	IBM Corporation	IEEC Membership- IBM 2017 Agreement No 49103015695	100	\$4,220	\$844	\$5,064
Park, Dr. Seungbae	Corning Incorporated	IEEC Membership 2015-2019 - Corning Inc.	100	\$72,113	\$14,423	\$86,536
Park, Dr. Seungbae	Unison Industries LLC	Unison Participating Membership 2017-2018, 2018-2019, 2019-2020	100	\$4,160	\$832	\$4,992
Park, Dr. Seungbae	NYS Department of Economic Development	Center for Advanced Technology September 1, 2015-June 30, 2020	100	\$802,520	\$105,000	\$907,520
Park, Dr. Seungbae	Koh Young Technology Incorporated	Integrated Electronics Engineering Center Membership 2018-2021	100	\$67,426	\$13,485	\$80,911
Park, Dr. Seungbae	Energy and Resource Solutions Incorporated	Energy and Resource Solutions 2017-2018 Participating Membership in the IEEC	100	\$975	\$195	\$1,169
Park, Dr. Seungbae	SensAttire LLC	SensAttire LLC's Participating Membership in the IEEC	100	(\$2,500)	(\$500)	(\$3,000)
Park, Dr. Seungbae	EMD Performance Materials	Participating Membership in IEEC	100	\$0	\$0	\$0
Park, Dr. Seungbae	Universal Instruments Corporation	Universal Instruments Annual Participating Membership IEEC	100	\$4,874	\$975	\$5,849
Park, Dr. Seungbae	Incodema3D LLC	Incodema3D's Membership in the IEEC	100	\$44	\$9	\$53
Park, Dr. Seungbae	Knowles Electronics LLC	Participating Membership in the IEEC	100	\$1,288	\$258	\$1,546

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Park, Dr. Seungbae	Harris Corporation	Harris Corp Participating Membership in IEEC	100	\$1,999	\$400	\$2,398
Park, Dr. Seungbae	Menlo Microsystems Incorporated	Menlo Microsystems Participating Membership In the IEEC	100	\$2,484	\$497	\$2,981
Park, Dr. Seungbae	SunRay Scientific LLC	SunRay Scientific LLC Patricipating Membership in the IEEC	100	\$2,496	\$499	\$2,995
Park, Dr. Seungbae	Pelitex Incorporated	Pelitex Inc IEEC Membership 18-19	100	\$2,498	\$500	\$2,998
Park, Dr. Seungbae	Amphenol Aerospace Operations	Amphenol 18-19 IEEC Membership	100	\$2,514	\$503	\$3,017
Park, Dr. Seungbae	Koh Young Technology Incorporated	Koh Young Technology's support of the IEEC	100	\$14	\$3	\$17
Park, Dr. Seungbae	Anaren Incorporated	Anaren 2018 IEEC Membership	100	\$2,500	\$500	\$3,000
Park, Dr. Seungbae	E.I. du Pont de Nemours and Company	E.I. du Pont IEEC Membership	100	\$2,518	\$504	\$3,022
Park, Dr. Seungbae	Knowles Electronics LLC	Knowles Participating Membership 2019-2020	100	\$4,137	\$827	\$4,964
Park, Dr. Seungbae	B.W. Elliott Manufacturing Company LLC	B.W. Elliot Manufacturing's Membership in the IEEC	100	\$2,509	\$502	\$3,011
Park, Dr. Seungbae	Smart Modular Technologies Inc	Smart Modular 2018-2019 IEEC Membership	100	\$2,500	\$500	\$3,000

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Park, Dr. Seungbae	MOSAIC Microsystems	Mosaic Microsystems Participating Membership in the IEEC 2018-2019	100	\$2,500	\$500	\$3,000
Park, Dr. Seungbae	Bell Semiconductor	IEEC Membership- Bell Semiconductor 2018	100	\$2,500	\$500	\$3,000
Park, Dr. Seungbae	Raymond Corporation	Raymond Corporation's Participating Membership in the IEEC 2018-2019	100	\$2,500	\$500	\$3,000
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match- NextFlex Project 2.5	100	\$41,337	\$23,149	\$64,486
Poliks, Dr. Mark D	Lockheed Martin Corporation	NextFlex Project 2.3: Conformal Printing of Conductors and Dielectrics onto Complex 3D Surfaces	100	\$122,257	\$0	\$122,257
Poliks, Dr. Mark D	Lockheed Martin Corporation	NextFlex Project 2.3: Conformal Printing of Conductors and Dielectrics onto Complex 3D Surfaces	100	\$91,742	\$0	\$91,742
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match- NextFlex Project 2.3	100	\$101,785	\$0	\$101,785
Poliks, Dr. Mark D	Flex Tech Alliance	NextFlex Project 2.8 Assessment and Optimization of the Reliability of Wearable Performance Monitors	100	\$75,240	\$40,214	\$115,454
Poliks, Dr. Mark D	Georgia Institute of Technology	NextFlex Project 2.5: Development of Test Methods and Standards to Assess Reliability of FHE Components and Systems	100	\$57,707	\$32,316	\$90,024
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match- NextFlex Project 2.3	100	\$144,012	\$0	\$144,012
Poliks, Dr. Mark D	Flex Tech Alliance	NextFlex Project 2.8 Assessment and Optimization of the Reliability of Wearable Performance Monitors	100	\$196,744	\$0	\$196,744

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Poliks, Dr. Mark D	Empire State Development Corp	ESD Match- NextFlex Project 2.8	100	\$463,517	\$55,323	\$518,840
Poliks, Dr. Mark D	Flex Tech Alliance	NextFlex Project 2.8 Assessment and Optimization of the Reliability of Wearable Performance Monitors	100	\$201,302	\$0	\$201,302
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match- NextFlex Project 2.1	100	\$210,393	\$0	\$210,393
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match- NextFlex Project 2.8	100	\$25,702	\$0	\$25,702
Poliks, Dr. Mark D	Empire State Development Corp	Manufacturing Platform Process Development for Flexible Hybrid Electronics with Focus on Manufacturing Elements for Medical Devices	100	\$2,198	\$1,231	\$3,428
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match- NextFlex Project 2.2	100	\$200,000	\$0	\$200,000
Poliks, Dr. Mark D	Empire State Development Corp	Manufacturing Platform Process Development for Flexible Hybrid Electronics with Focus on Manufacturing Elements for Medical Devices	100	\$4,636	\$2,596	\$7,232
Poliks, Dr. Mark D	Empire State Development Corp	Manufacturing Platform Process Development for Flexible Hybrid Electronics with Focus on Manufacturing Elements for Medical Devices	100	\$18,557	\$0	\$18,557
Poliks, Dr. Mark D	Empire State Development Corp	Manufacturing Platform Process Development for Flexible Hybrid Electronics with Focus on Manufacturing Elements for Medical Devices	100	\$6,582	\$0	\$6,582
Poliks, Dr. Mark D	Flex Tech Alliance	Manufacturing Platform Process Development for Flexible Hybrid Electronics with Focus on Manufacturing Elements for Medical Devices	100	\$2,198	\$1,231	\$3,428
Poliks, Dr. Mark D	Flex Tech Alliance	Manufacturing Platform Process Development for Flexible Hybrid Electronics with Focus on Manufacturing Elements for Medical Devices	100	\$6,582	\$0	\$6,582

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Poliks, Dr. Mark D	Flex Tech Alliance	Manufacturing Platform Process Development for Flexible Hybrid Electronics with Focus on Manufacturing Elements for Medical Devices	100	\$400	\$224	\$624
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match- NextFlex Project 2.1	100	\$5,948	\$3,331	\$9,279
Poliks, Dr. Mark D	Universal Instruments Corporation	NextFlex Project 2.1: Ultra-Thin Die Assesmbly for FHE Systems	100	\$7,563	\$4,235	\$11,798
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match- NextFlex Project 2.3	100	\$8,046	\$4,506	\$12,551
Poliks, Dr. Mark D	Lockheed Martin Corporation	NextFlex Project 2.3: Conformal Printing of Conductors and Dielectrics onto Complex 3D Surfaces	100	\$13,749	\$0	\$13,749
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match- NextFlex Project 2.3	100	\$13,749	\$0	\$13,749
Poliks, Dr. Mark D	Flex Tech Alliance	Manufacturing Platform Process Development for Flexible Hybrid Electronics with Focus on Manufacturing Elements for Medical Devices	100	\$18,557	\$0	\$18,557
Poliks, Dr. Mark D	Lockheed Martin Corporation	NextFlex Project 2.3: Conformal Printing of Conductors and Dielectrics onto Complex 3D Surfaces	100	\$3,485	\$1,952	\$5,437
Sammakia, Dr. Bahgat G	Xilinx	Xilinx I/UCRC Membership 2017-2022	50	\$27,844	\$2,784	\$30,628
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence Small Scale Systems Integration and Packaging (S3IP) 2018-2019	100	\$18,629	\$2,794	\$21,423
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence Small Scale Systems Integration and Packaging (S3IP) 2018-2019	100	\$18,629	\$2,794	\$21,423

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Sammakia, Dr. Bahgat G	Futurewei Technologies	Futurewei Membership in I/UCRC ES2 (2018-2019)	50	\$26,568	\$2,657	\$29,225
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence Small Scale Systems Integration and Packaging (S3IP) 2018-2019	100	\$31,831	\$4,775	\$36,606
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence Small Scale Systems Intergration and Packaging (S3IP)	100	\$43,798	\$2,235	\$46,033
Sammakia, Dr. Bahgat G	Bloomberg LP	Industry/University Cooperative Research Center in Energy-Smart Electronic Systems Membership (ES2)	50	\$45,289	\$4,529	\$49,818
Sammakia, Dr. Bahgat G	National Science Foundation	Phase II IUCRC Binghamton University Center for Energy-Smart Electronic Systems (ES2)	50	\$55,162	\$30,904	\$86,066
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	\$11,588	\$6,605	\$18,192
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence Small Scale Systems Integration and Packaging (S3IP) 2018-2019	100	\$467,949	\$53,503	\$521,452
Sammakia, Dr. Bahgat G	Corning Incorporated	Corning's Membership in the I/UCRC for Energy-Smart Electronic Systems	25	\$1,458	\$146	\$1,604
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence Small Scale Systems Integration and Packaging (S3IP) 2018-2019	100	\$316,184	\$47,002	\$363,185
Sammakia, Dr. Bahgat G	Huawei Technologies Company Limited	Huawei Corporation's Membership in the I/UCRC for Energy-Smart Electronic Systems	34	\$2	\$0	\$2
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence Small Scale Systems Intergration and Packaging (S3IP)	100	\$5,153	\$773	\$5,926

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Sammakia, Dr. Bahgat G	Future Facilities Incorporated	Future Facilities ES2 Membership	25	\$0	\$0	\$0
Sammakia, Dr. Bahgat G	Villanova University	PHASE II- IUCRC Center for Energy-Smart Electronic Systems - Subaward 525877 FleischerBinghamton	50	\$9,812	\$5,582	\$15,394
Sammakia, Dr. Bahgat G	Multiple Sponsors	ES2 IAB Donation Multiple Sponsors	34	\$13	\$1	\$14
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence Small Scale Systems Intergration and Packaging (S3IP)	100	\$291	\$44	\$335
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence Small Scale Systems Intergration and Packaging (S3IP)	100	\$291	\$44	\$335
Sammakia, Dr. Bahgat G	Futurewei Technologies	Futurewei Membership Agreement I/UCRC	50	\$340	\$34	\$374
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence Small Scale Systems Intergration and Packaging (S3IP)	100	\$437	\$66	\$502
Sammakia, Dr. Bahgat G	Xilinx	ES2 Membership Agreement	25	\$1,566	\$157	\$1,723
Sammakia, Dr. Bahgat G	Future Facilities Incorporated	Future Facilities ES2 Membership	50	\$12,092	\$1,209	\$13,302
Sammakia, Dr. Bahgat G	National Science Foundation	Collaborative Center: I/UCRC in Center for Energy-Smart Electronic Systems (ES2)	34	\$0	\$0	\$0
Srihari, Dr. Krishnaswami	Multiple Sponsors	Income from Watson School Continuing Education Miscellaneous Activitites	100	\$61,585	\$15,396	\$76,981

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F & A Expended</u>	<u>Total Expended</u>
Srihari, Dr. Krishnaswami	Multiple Sponsors	Flight Simulation 2018	100	\$3,840	\$960	\$4,800
Srihari, Dr. Krishnaswami	Montefiore Hospital and Medical Center	Improving the Efficiency and Effectiveness of Healthcare Delivery Amendments 10, 13 and 15, 17	50	\$6,945	\$1,699	\$8,644
Srihari, Dr. Krishnaswami	Multiple Sponsors	Income Received Through Watson School Continuing Education for SSIE Activities	100	\$10,300	\$2,575	\$12,875
Srihari, Dr. Krishnaswami	Multiple Sponsors	Lean Six Sigma Greenbelt and Healthcare	100	\$17,035	\$4,259	\$21,293
Srihari, Dr. Krishnaswami	Multiple Sponsors	Blackbelt Income Account	100	\$19,724	\$4,931	\$24,655
Srihari, Dr. Krishnaswami	Multiple Sponsors	2019 Flight Simulation Course	100	\$24,210	\$6,052	\$30,262

Department Total: \$5,760,845

Total:	\$48,569,718
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