

# Sponsored Programs Expenditure Report

For the period July 1, 2021 -June 30, 2022



<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
<b>020 Acad Affairs Prov VP</b>						
Fegley, Dr. Megan Elizabeth Audrey	University of Georgia	Momentary Assessment of Research Learning Enviroments	100	\$3,409	\$1,704	\$5,113
Imbruce, Dr. Valerie	National Endowment for the Humanities	Situating Chemical Elements in the Human World to Innovate Undergraduate Education	50	\$10,041	\$5,724	\$15,765
Imbruce, Dr. Valerie	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$33,587	\$14,015	\$47,601
Imbruce, Dr. Valerie	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$66,991	\$0	\$66,991
Imbruce, Dr. Valerie	US Department of Education	Ronald E. McNair Post-Baccalaureate Achievement 2017-2022	100	\$244,357	\$14,029	\$258,387
Light, Dr. Caitlin J.	National Science Foundation	REU Site: Early Collaborative Research Experience In Microbial Biofilm Development, Resistance, & Community Structure	90	\$7,014	\$3,998	\$11,011
Light, Dr. Caitlin J.	National Science Foundation	REU Site: Early Collaborative Research Experience In Microbial Biofilm Development, Resistance, & Community Structure	90	\$58,718	\$0	\$58,718
Loewen, Mr. Donald J	Multiple Sponsors - Nonsponsored	GROK Global Services	100	\$113,733	\$0	\$113,733
Pitarresi, Dr. James	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$33,587	\$14,015	\$47,601

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Pitarresi, Dr. James	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$66,991	\$0	\$66,991
Stamp, Dr. Nancy E	National Science Foundation	GP-EXTRA: Freshman Research in Biogeochemistry for Engagement and Retention	20	\$2,838	\$1,419	\$4,258
Withers, Ms. Michelle D	National Science Foundation	RCN-UBE: Networking STEM initiatives to enhance (NSITE) adoption of Evidence-Based Practices	100	\$45,288	\$25,814	\$71,102
Withers, Ms. Michelle D	National Science Foundation	Facilitating Widespread Implementation of Teaching Strategies Known to Promote Student Success throughout a State System of Colleges	100	\$52,436	\$29,889	\$82,325
<b><i>Department Total:</i></b>				<b><i>\$849,596</i></b>		

### ***020 Anthropology***

Digangi, Dr. Elizabeth Ann	US Department of Justice	A Virtual Anthropological Approach to the Study of Commingled Human Remains	100	\$48,023	\$6,833	\$54,855
McGuire, Dr. Randy	National Science Foundation	Doctoral Dissertation Research Award: The Role of Material Culture in Reconstructing Social Connectivity	100	\$11,512	\$2,993	\$14,505
McGuire, Dr. Randy	National Science Foundation	Conceptualizing Cultural Contact And Transmission Across International Boundaries	100	\$3,690	\$959	\$4,650
McGuire, Dr. Randy	National Science Foundation	Doctoral Dissertation Improvement Award: Emergence of Settlement Patterns	100	\$3,279	\$853	\$4,132
Merriwether, Dr. David A	Alpaca Research Foundation	Candidate Gene Sequencing for Choanal Atresia in Camelids	100	\$94	\$0	\$94
Sanger, Dr. Matthew	National Science Foundation	Collaborative Research: Examination of Sites on the Georgia Bight Coastline	100	\$10,163	\$2,642	\$12,806

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Van Dyke, Dr. Ruth	National Park Service	Condition Assessment and Emergency Treatment of Managed Archaeological Sites on Chacra Mesa	100	\$55,356	\$9,687	\$65,043
Wander, Dr. Katherine	National Science Foundation	Human adaption in high-pathogen enviroments: iron, infection, and child growth and development	100	\$180,029	\$2,736	\$182,765
Wander, Dr. Katherine	National Science Foundation	RAPID: Evolutionary Nutritional Adaptations and COVID-19 Risk Among Healthcare Workers	100	\$57,254	\$780	\$58,034

**Department Total: \$396,884**

**020 Art History**

Smart, Dr. Pamela	National Endowment for the Humanities	Situating Chemical Elements in the Human World to Innovate Undergraduate Education	50	\$10,041	\$5,724	\$15,765
Um, Dr. Nancy	Getty Foundation	Indian Ocean Exchanges	100	\$74,598	\$7,267	\$81,865

**Department Total: \$97,630**

**020 Arts and Sciences Dean**

Cho, Dr. Sungdai	Cornell University	Korean at the Nexus of the Northeast Asia Linguistic Area	100	\$46,209	\$4,621	\$50,830
Holahan, Dr. Robert A	National Science Foundation	Collaborative Research: Technological Shocks and Institutional Effectiveness under Heterogeneous Risk	100	\$5,327	\$3,036	\$8,363
Homsy, Dr. George C	Cary Institute of Ecosystem Studies	An Evaluation of Stakeholder Engagement in the Rondout and Neversink Watersheds RNSP-2021-01-001	100	\$10,200	\$2,040	\$12,240
Lipo, Dr. Carl	NYS Department of Environmental Conservation	Binghamton University Nature Preserve White-Tail Deer Exclusion, Invasive Treatments, and Reforestation	50	\$20,093	\$0	\$20,093

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Massey, Dr. Sean	NYS Department of Health	2019 - 20 Legislative Initiative	100	\$8,422	\$1,684	\$10,106
Mixter, Dr. David	Archaeological Institute of America	Dating Changes in Preclassic Maya Monumental Architectural Styles at Actuncan, Belize	100	\$3,360	\$0	\$3,360
<b>Department Total:</b>				<b>\$104,992</b>		
<b>020 Asian Asian-American Studies</b>						
Chen, Dr. Zu-yan	National Academy of Chinese Theatre Arts	2021 National Academy of Chinese Theatre Arts	100	\$24,962	\$2,496	\$27,458
<b>Department Total:</b>				<b>\$27,458</b>		
<b>020 Biological Sciences</b>						
Cook, Dr. Laura	National Institute of Allergy & Infectious Disease	Transcriptomic and Genetic Differences of Group A Streptococcus in Humans: Acute Infection Versus Carriage	100	\$42,903	\$7,494	\$50,397
Cook, Dr. Laura	National Institute of Allergy & Infectious Disease	The Characterization of Streptococcus agalactiae Novel Protein, Sak_1753 in the Colonization of the Vaginal Tract	100	\$30,686	\$0	\$30,686
Fiumera, Dr. Anthony	National Institute of General Medical Sciences	Laboratory Selection for Drosophila Melanogaster Genetic Variants that Confer Increased Survival on a Diabetogenic Diet	22.5	\$10,727	\$6,114	\$16,841
Marques, Dr. Claudia	Bio Botanical Research Incorporated	Collaboration between Bio-Botanical Research Inc. and Binghamton University	100	\$1,775	\$1,012	\$2,786
Marques, Dr. Claudia	National Inst of Environmental Health Sciences	Engineering a Small Intestinal Microbiome To Evaluate Food Additive Exposure	50	\$100,654	\$44,547	\$145,201
Meindl, Dr. Jessica Hua	National Science Foundation	Collaborative Research: Disease ecology in the midst of anthropogenic stressors: Exploring the influence of pesticides on host-parasite interactions	100	\$25,057	\$14,283	\$39,340

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
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	\$15,600	\$0	\$15,600
Meindl, Dr. Jessica Hua	National Science Foundation	CAREER: Evolutionary Disease Ecology- Can evolutionary responses to environmental change modify the biodiversity-disease relationship?	100	\$37,854	\$14,281	\$52,134
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	\$5,000	\$0	\$5,000
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	\$14,834	\$8,455	\$23,289
Musselman, Dr. Laura	National Institute of General Medical Sciences	Laboratory Selection for Drosophila Melanogaster Genetic Variants that Confer Increased Survival on a Diabetogenic Diet	77.5	\$36,949	\$21,061	\$58,009
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	\$10,833	\$6,175	\$17,008
Prior, Dr. Kirsten	National Science Foundation	EAGER: Uncovering the Role of Altered Cryptic Interactions in Driving the Demographic Success of a Range-Expanding Species	100	\$58,850	\$13,966	\$72,817
Sauer, Dr. Karin	Syracuse University	Planning Grant: Engineering Research Center for Innovative Materials and Processes for Antimicrobial Control Technologies (IMPACT)	100	\$5,650	\$3,221	\$8,871
Sauer, Dr. Karin	National Science Foundation	REU Site: Early Collaborative Research Experience In Microbial Biofilm Development, Resistance, & Community Structure	10	\$6,524	\$0	\$6,524
Sauer, Dr. Karin	National Science Foundation	REU Site: Early Collaborative Research Experience In Microbial Biofilm Development, Resistance, & Community Structure	10	\$779	\$444	\$1,223

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Sauer, Dr. Karin	National Institute of Allergy & Infectious Disease	Role of PA4878 in biofilm antimicrobial resistance	100	\$107,142	\$58,928	\$166,071
Sauer, Dr. Karin	National Institute of Allergy & Infectious Disease	Dispersion and the Biofilm Matrix of Pseudomonas aeruginosa	100	\$327,374	\$118,020	\$445,394
Schertzer, Dr. Jeffrey W	National Institute of Allergy & Infectious Disease	Pathogen Synergy Through Cross-Species Induction of Outer Membrane Vesicle Biogenesis	100	\$74,530	\$35,944	\$110,474
Schertzer, Dr. Jeffrey W	National Institute of General Medical Sciences	Small-molecule membrane interactions as a driver of bacterial outer membrane vesicle biogenesis across species	50	\$45,961	\$22,229	\$68,190
Sobel, Dr. James	National Science Foundation	Collaborative Research: ROL: Rapid Evolution of Reproductive Isolation via Hybrid Seed Lethality in Mimulus	100	\$30,120	\$17,169	\$47,289
Stamp, Dr. Nancy E	Howard Hughes Medical Institute	Howard Hughes Support - Freshman Research Immersion (FRI) Models	50	\$2,047	\$0	\$2,047
Zhu, Dr. Weixing	National Science Foundation	GP-EXTRA: Freshman Research in Biogeochemistry for Engagement and Retention	20	\$2,838	\$1,419	\$4,258

**Department Total: \$1,389,449**

**020 Biomedical Engineering**

German, Dr. Guy K	Estee Lauder Corporation	Development of cosmetically acceptable and gentle materials/ methods that impact the mechanics of epidermis	60	\$5,023	\$2,863	\$7,886
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	\$72,208	\$40,610	\$112,818
German, Dr. Guy K	National Science Foundation	RAPID: Ultraviolet Germicidal Irradiation for Disinfecting and Reuse of N95 Respirators	30	\$10,435	\$5,948	\$16,383

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German, Dr. Guy K	National Science Foundation	I-Corps: Preventing Rolling Veins During IV Insertion	100	\$15,852	\$1,761	\$17,613
Hookway, Dr. Tracy	National Heart Lung and Blood Institute	Heterotypic impacts on epicardial cells on engineered cardiac microtissue function	100	\$65,796	\$36,406	\$102,202
Jin, Dr. Sha	National Science Foundation	Molecular mechanisms of tissue specific signaling for islet self-assembly	80	\$40,289	\$22,087	\$62,376
Jin, Dr. Sha	National Inst of Biomedical Imaging and Bioenginee	Generation of Islet Organoids in Oxygenated Scaffolds	75	\$53,718	\$25,489	\$79,207
Koh, Dr. Ahyeon	Nano-Bio Materials Consortium	Epifluidics for Stress Monitoring	45	\$24,476	\$10,873	\$35,349
Koh, Dr. Ahyeon	National Science Foundation	Power-On-Skin: Energy Generation from Sweat-Eating Bacteria for Self-Powered Electronic Skins	40	\$67,570	\$32,604	\$100,173
Koh, Dr. Ahyeon	National Science Foundation	Stretchable Papertronics	50	\$28,743	\$13,967	\$42,710
Koh, Dr. Ahyeon	National Science Foundation	I-Corps: Self-adhesive, nanofibrous, silicone elastomer to replace current adhesive bandages	100	\$33,521	\$3,724	\$37,245
Koh, Dr. Ahyeon	Sete Digital LTDA	Apolo Project	100	\$18,528	\$10,561	\$29,089
Lu (Frank), Dr. Fake (Frank)	National Institute of General Medical Sciences	Low-Power Stimulated Raman Time-Lapse Microscope for Tracking Dynamics and Fate of Lipid Droplets in Glioma Cells	100	\$61,383	\$33,890	\$95,273
Lu (Frank), Dr. Fake (Frank)	National Institutes of Health	Stimulated Raman imaging for label-free histology to guide brain tumor surgery	100	\$1,896	\$1,081	\$2,977

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Lu, Dr. Fake (Frank)	National Institute of General Medical Sciences	Exploiting the Hydrophobic Glycosyl Pocket of IgG1 for Imaging and Drug Delivery Applications	25	\$30,785	\$17,547	\$48,332
Lu, Dr. Fake (Frank)	Estee Lauder Corporation	Development of cosmetically acceptable and gentle materials/ methods that impact the mechanics of epidermis	40	\$3,349	\$1,909	\$5,257
Mahler, Dr. Gretchen J	National Science Foundation	Mechanobiology of Myofibroblast Behavior in Health and Disease	25	\$31,345	\$16,935	\$48,280
Mahler, Dr. Gretchen J	American Heart Association Western State Affiliate	Three-dimensional Valve-on-a-chip Models of the Aortic Valve Fibrosa	100	\$26,173	\$0	\$26,173
Mahler, Dr. Gretchen J	National Inst of Environmental Health Sciences	Engineering a Small Intestinal Microbiome To Evaluate Food Additive Exposure	50	\$100,654	\$44,547	\$145,201
Wan, Dr. Yuan	Carnegie Mellon University	Lipid nanoprobe integrated microdevice for extracellular vesicle isolation and duplex sequencing based mutation detection for non-invasive lung cancer diagnosis	100	\$76,977	\$43,877	\$120,854
Wan, Dr. Yuan	National Cancer Institute	Liquid biopsy of solitary pulmonary nodule with extracellular vesicles	100	\$0	\$14,250	\$14,250
Wan, Dr. Yuan	National Cancer Institute	Liquid biopsy of solitary pulmonary nodule with extracellular vesicles	100	\$77,778	\$38,460	\$116,238
Ye, Dr. Kaiming	National Science Foundation	REU Site: Undergraduate Research Experience in Biomedical Translational Science and Technology Development	100	\$31,366	\$17,879	\$49,245
Ye, Dr. Kaiming	University of Arkansas	EAGER: SARS-CoV-2 Pseudovirus via a novel eukaryotic construction in yeast	100	\$9,010	\$5,136	\$14,146
Ye, Dr. Kaiming	National Science Foundation	RAPID: Ultraviolet Germicidal Irradiation for Disinfecting and Reuse of N95 Respirators	70	\$24,348	\$13,878	\$38,227



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Ye, Dr. Kaiming	National Science Foundation	Molecular mechanisms of tissue specific signaling for islet self-assembly	20	\$10,072	\$5,522	\$15,594
Ye, Dr. Kaiming	National Science Foundation	REU Site: Undergraduate Research Experience in Biomedical Translational Science and Technology Development	100	\$35,367	\$0	\$35,367
Ye, Dr. Kaiming	National Institute of Dental & Craniofacial Res	Development of a Smartphone based infrared fluorescenceimaging intraoral device (SMART-IR-ID) for dentist- guided realtime self-monitoring of periodontal disease	100	\$26,133	\$11,673	\$37,806
Ye, Dr. Kaiming	National Inst of Biomedical Imaging and Bioenginee	Generation of Islet Organoids in Oxygenated Scaffolds	25	\$17,906	\$8,496	\$26,402
Ye, Dr. Kaiming	Johns Hopkins University	NIST Professional Research Experience Program (PREP) Partnership	100	\$9,057	\$2,355	\$11,412
Ye, Dr. Kaiming	Johns Hopkins University	NIST Professional Research Experience Program (PREP) Partnership	100	\$29,490	\$7,667	\$37,157
Ye, Dr. Kaiming	Johns Hopkins University	NIST Professional Research Experience Program (PREP) Partnership	100	\$37,951	\$9,867	\$47,818
Ye, Dr. Kaiming	Johns Hopkins University	NIST Professional Research Experience Program (PREP) Partnership	100	\$96,789	\$25,165	\$121,955
				<b><i>Department Total:</i></b>	<b><i>\$1,701,015</i></b>	
<b><i>020 CCPA Deans Office</i></b>						
Bronstein, Dr. Laura R	NYS Education Department	Community Schools Regional Technical Assistance Center (TAC)- CARES Act Funding	100	\$10,000	\$0	\$10,000
Bronstein, Dr. Laura R	University of Pennsylvania	Netter Center Regional Training Center Award, Year One of Three	100	\$13,717	\$0	\$13,717

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Bronstein, Dr. Laura R	Broome County Department of Mental Health	CA 7-340 Renewal- Mental Health Schools Project Coordinator 2022	100	\$81,619	\$12,243	\$93,862
Bronstein, Dr. Laura R	University of Massachusetts Chan Medical School	Helping Youth on the Path to Employment (HYPE) Creating Economic Self Sufficiency Year 2	50	\$35,111	\$9,129	\$44,240
Bronstein, Dr. Laura R	University of Pennsylvania	Netter Center Regional Training Center Award, Year Two of Three 2021-2022	50	\$20,785	\$0	\$20,785
Bronstein, Dr. Laura R	University of Massachusetts Chan Medical School	Helping Youth on the Path to Employment (HYPE): Creating Economic Self-Sufficiency Subaward No. OSP28329-01	50	\$25,501	\$7,280	\$32,782
Bronstein, Dr. Laura R	NYS Education Department	Nita M. Lowey 21st Century Community Learning Centers Technical Assistance Resource Center	100	\$266,565	\$63,478	\$330,043
Bronstein, Dr. Laura R	NYS Education Department	Community Schools Regional Technical Assistance Center (TAC)	100	\$219,845	\$44,737	\$264,582
Bronstein, Dr. Laura R	NYS Education Department	Community Schools Regional Technical Assistance Center (TAC)	100	\$12,283	\$3,194	\$15,476
Bronstein, Dr. Laura R	Multiple Sponsors	Continuing Education Activities	100	\$5,970	\$895	\$6,865
Bronstein, Dr. Laura R	Broome County Department of Mental Health	CA 7-340 Renewal- Binghamton University Community Schools 2021	100	\$121,778	\$15,831	\$137,610
Bronstein, Dr. Laura R	Multiple Sponsors	CCPA Miscellaneous Income	100	\$131,572	\$19,736	\$151,308
Bronstein, Dr. Laura R	NYS Education Department	Community Schools Regional Technical Assistance Center (TAC)- CARES Act Funding	100	\$609,651	\$149,149	\$758,800

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Kida, Ms. LuAnn F	Conrad and Virginia Klee Foundation	Promise Zone to Pilot an Early Childhood Program within BU Community Schools at the Harpursville Central School District	100	\$71,274	\$0	\$71,274
Kida, Ms. LuAnn F	National Science Foundation	Engaging Rural Youth in Multidisciplinary Inquiry through Archaeology	25	\$25,286	\$6,256	\$31,541
Kida, Ms. LuAnn F	University of Pennsylvania	Netter Center Regional Training Center Award, Year Two of Three 2021-2022	50	\$20,785	\$0	\$20,785
Kida, Ms. LuAnn F	US Department of Education	Binghamton University Community Schools PLACE (Partnerships for Learning and Community Engagement) Initiative	30	\$117,463	\$1,879	\$119,342
Pulz, Ms. Casey	Mothers and Babies Perinatal Network of South Cent	Mothers & Babies PREP Summer Youth Development Program	100	\$12,505	\$1,251	\$13,756
Pulz, Ms. Casey	Broome County Youth Bureau	2021 Youth Bureau Summer Zones Program	100	\$11,347	\$1,135	\$12,482

**Department Total: \$2,149,251**

**020 CCPA Human Development**

Wilton, Dr. Leo	New York University	Advancing Knowledge on Factors that Promote or Impede Engagement Along the HIV Care Continuum Over Time: A Longitudinal Mixed Methods Study of Black and Latinx Youth/ Emerging Adults Living with HIV	100	\$32,612	\$18,589	\$51,201
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**Department Total: \$51,201**

**020 CCPA Public Administration**

Homsy, Dr. George C	NYS Department of Environmental Conservation	Binghamton University Nature Preserve White-Tail Deer Exclusion, Invasive Treatments, and Reforestation	50	\$20,093	\$0	\$20,093
Rubaii, Dr. Nadia	Auschwitz Inst for the Prev of Genocide & Mass Atrocities	An Analysis of the Relation Between Speech Legitimizing Violence	50	\$500	\$25	\$525

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**Department Total: \$20,618**

**020 CCPA Social Work**

McGinley, Dr. Jacqueline	Borchard Center on Law and Aging	How We Die Alone: A Content Analysis of Facility Visitation Policies During the Pandemic	100	\$14,907	\$0	\$14,907
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**Department Total: \$14,907**

**020 CCPA Teaching Learning Educ Leadership**

Humphrey, Ms. Amy L.	Multiple Sponsors	Income Account for Liberty Partnership Activities	100	\$307,251	\$24,581	\$331,831
Humphrey, Ms. Amy L.	NYS Education Department	Liberty Partnership Program 2020-2021	100	\$127,985	\$10,238	\$138,223
Humphrey, Ms. Amy L.	NYS Education Department	Liberty Partnership Program 2021-2022	100	\$306,120	\$24,490	\$330,610
Kim, Dr. HoeKyeung	Academy of Korean Studies	A Study on Korean Bridging Inferences Marked by Korean Demonstrative 'ku'	100	\$2,400	\$0	\$2,400
Malin, Dr. Jo E.	US Department of Education	Talent Search Program 2017-2021	100	\$108,619	\$8,690	\$117,309
Malin, Dr. Jo E.	US Department of Education	Talent Search Program 2021-2026	100	\$261,336	\$20,907	\$282,243
Mellin, Dr. Elizabeth	US Department of Education	Binghamton University Community Schools PLACE (Partnerships for Learning and Community Engagement) Initiative	70	\$274,081	\$4,384	\$278,464
Simpson, Dr. Amber	National Science Foundation	Collabarative Research: Engineering a Community Family Partnership: Developing a Program Aimed at Making & Design Practices in Home Enviroments	100	\$31,472	\$10,745	\$42,217

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Simpson, Dr. Amber	Trustees of Indiana University	RAPID: Rapidly building a collaborative network of informal educators to address school closures related to the 2020 COVID -19 Pandemic - SUBAWARD #8447	100	\$4,045	\$2,305	\$6,350
Simpson, Dr. Amber	National Science Foundation	Collaborative Research: The Notion of Failure and Maker Programming for Youth: Supporting the Professional Development, Reflection, and Learning of Informal Educators	100	\$185,055	\$100,649	\$285,704
Simpson, Dr. Amber	National Science Foundation	Engaging Rural Youth in Multidisciplinary Inquiry through Archaeology	25	\$25,286	\$6,256	\$31,541

**Department Total: \$1,846,892**

**020 Chemistry**

An, Dr. Ming	National Institute of General Medical Sciences	Rational Design of pH-Low Insertion Peptides for Cargo Delivery	70	\$17,597	\$10,030	\$27,627
Bane Tuttle, Dr. Susan B	National Cancer Institute	Coupling through Boron: Fast, Tunable, and Versatile Bioorthogonal Reactions Producing Boron-Containing Heterocycles	100	\$40,196	\$22,912	\$63,108
Callahan, Dr. Brian P	National Institute of Allergy & Infectious Disease	Rapid SARS-CoV-2 Detection Using Amplicon Templated Reported Enzyme Assembly	100	\$37,984	\$21,651	\$59,635
Callahan, Dr. Brian P	Rensselaer Polytechnic Institute	Structural Mechanisms of Hedgehog Autoprocessing in Physiology and Disease PTE 1R01CA206592-01-A1 - Subaward A12815	100	\$46,922	\$25,018	\$71,940
Callahan, Dr. Brian P	Rensselaer Polytechnic Institute	National Cancer Insitute Diversity Supplement for Andrew Wagner	100	\$29,541	\$16,570	\$46,112
Dimitrov, Mr. Nikolay	Purdue University	Dimitrov 2020 SRC CHIRP: Fine Pitch Cu-Sn Based Interconnection Below Temperatures of 180oC	100	\$32,596	\$18,580	\$51,176
Fang, Dr. Jiye	Cornell University	Development of Advanced ORR/ HOR Nano-Electrocatalysts in Alkaline Media Federal Award no DE-SC0019445	100	\$64,624	\$41,422	\$106,046

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Fang, Dr. Jiye	National Science Foundation	Manipulating and Exploiting Lattice Strain as a Novel Platform to Tune the Surface Work Function of Mtallic Nanocatalysts	100	\$42,613	\$24,290	\$66,903
Goyal, Dr. Puja	National Institute of General Medical Sciences	Towards Rational Design of the Photocontrol of Calmodulin-Protein Interactions	100	\$64,470	\$35,650	\$100,120
Goyal, Dr. Puja	National Institute of General Medical Sciences	Regulation of bidirectional transport of the nucleus by adapter proteins	5	\$1,482	\$818	\$2,300
Grewer, Dr. Christof	Mount Sinai School of Medicine	Substrate Specificity Determinants in Nutrient Solute Carrier Transporters: Amendment 3	100	\$1,569	\$894	\$2,463
Grewer, Dr. Christof	National Institute of General Medical Sciences	How to combat Glutamate Release by Reverse Transport: Mechanistic Studies and Development of Selective Efflux Inhibitors	100	\$81,690	\$42,594	\$124,284
Grewer, Dr. Christof	Mount Sinai School of Medicine	Substrate Specificity Determinants in Nutrient Solute Carrier Transporters	100	\$34,177	\$18,364	\$52,541
Hirschi, Dr. Jennifer Sue	National Science Foundation	Covalent and Transition State Inhibitor Design	100	\$461	\$263	\$723
Hirschi, Dr. Jennifer Sue	National Institute of General Medical Sciences	Mechanistic Investigation into Photoredox Catalysis	100	\$86,003	\$45,466	\$131,470
Liu, Dr. Hao	National Science Foundation	Rational Design of Oxide Cathode Coating for High Performance Li-ion Batteries	34	\$36,883	\$20,372	\$57,255
Liu, Dr. Hao	National Science Foundation	CAREER: Enabling High-performance Na-ion Battery Cathodes Via Structural Pillaring	100	\$25,176	\$13,801	\$38,977
Panetier, Dr. Julien	National Institute of General Medical Sciences	Computational Modeling of Carbon Monoxide Dehydrogenase Model Systems for Carbon Dioxide Fixation	100	\$119,515	\$66,220	\$185,735

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Qiang, Dr. Wei	National Institute of General Medical Sciences	Molecular mechanisms of membrane disruption induced by early-stage aggregation of beta-amyloid peptides	100	\$206,361	\$72,045	\$278,406
Rozners, Dr. Eriks	American Chemical Society	ACS Summer Undergraduate Research Fellowship- John Talbott	100	\$4,789	\$0	\$4,789
Rozners, Dr. Eriks	National Institute of Allergy & Infectious Disease	Targeting SARS-CoV-2 RNA Pseudoknots Using Triplex-Forming Peptide Nucleic Acids	100	\$42,488	\$23,809	\$66,297
Rozners, Dr. Eriks	National Institute of General Medical Sciences	Chemical approaches to control the function of regulatory RNAs	100	\$265,526	\$145,378	\$410,904
Rozners, Dr. Eriks	National Science Foundation	Collaborative Research: Nucleobase-Modified Peptide Nucleic Acid (PNA) for Sequence Selective Triple-Helical Recognition of Non-Coding Ribonucleic Acid (RNA)	100	\$657	\$0	\$657
Rozners, Dr. Eriks	National Science Foundation	Collaborative Research: Nucleobase-Modified PNA for Sequence Selective Triple-Helical Recognition of Non-Coding RNA	100	\$69,271	\$36,172	\$105,443
Solmaz, Ms. Sozanne	National Institute of General Medical Sciences	Cell cycle-specific recognition of the cell nucleus as cargo for dynein-dependent transport	100	\$58,125	\$33,131	\$91,256
Solmaz, Ms. Sozanne	National Institute of General Medical Sciences	Regulation of bidirectional transport of the nucleus by adapter proteins	95	\$28,165	\$15,533	\$43,697
Swierk, Dr. John	American Chemical Society	Photochemical Oxidation of Refractory Sulfur Compounds for Fuel Desulfurization	100	\$38,865	\$0	\$38,865
Swierk, Dr. John	National Science Foundation	CAREER:CAS: Mechanistic Investigation of Photoredox Reactions	100	\$126,732	\$42,342	\$169,073
Swierk, Dr. John	National Institute of General Medical Sciences	Photochemical transformations of multicomponent aggregates containing photolabile small molecules, heavy metal ions, and/or nanoparticles in biological environments	100	\$83,544	\$47,083	\$130,627

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Vetticatt, Dr. Mathew	National Institutes of Health	Novel Concepts and Mechanistic Probes in Catalysis	100	\$226,633	\$128,083	\$354,717
Whittingham, Dr. M Stanley	University of Maryland	FFATA: Advancing Transformational Army Batteries, II	100	\$5,042	\$2,874	\$7,916
Whittingham, Dr. M Stanley	US Department of Energy	Northeast Center for Chemical Energy Storage(NECCES)	89.24	\$40,532	\$23,042	\$63,575
Whittingham, Dr. M Stanley	Pacific Northwest National Laboratory	Battery 500: Controlling Electrochemical Reactions from Electrodes to Cells Work performed at Binghamton University, Binghamton, New York, USA	100	\$152,887	\$82,616	\$235,504
Whittingham, Dr. M Stanley	Pacific Northwest National Laboratory	The Stability of High Energy Lithium Batteries	100	\$19,269	\$10,983	\$30,252
Whittingham, Dr. M Stanley	NYS Energy Research and Development Authority	Agreement 154461: empowerST: Empowering Energy Storage Entrepreneurship in the Southern Tier	50	\$598	\$341	\$939
Whittingham, Dr. M Stanley	NYS Energy Research and Development Authority	NYSERDA Cost Share for North East Center for Chemical Energy Storage (NECCES) Energy Frontier Research Center	100	\$61,598	\$34,294	\$95,892
Whittingham, Dr. M Stanley	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$33,587	\$14,015	\$47,601
Whittingham, Dr. M Stanley	LG Energy Solutions	A Cobalt and Nickel Free High Energy Density Intercalation Cathode for Lithium or Lithium-ion Batteries	100	\$62,031	\$35,358	\$97,388
Whittingham, Dr. M Stanley	Empire State Development Corp	HTMG: EFRC-NE Center of Energy Storage	75	\$13,712	\$2,579	\$16,291
Whittingham, Dr. M Stanley	Economic Development Administration	New Energy New York	50	\$58,117	\$13,368	\$71,485



<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Whittingham, Dr. M Stanley	Corning Incorporated	Evaluating the Electrochemical Performance of Corning's novel Sintered Cathodes	100	\$11,378	\$6,485	\$17,864
Whittingham, Dr. M Stanley	US Department of Energy	Battery500 Consortium - Development of High-Capacity Cathodes and Robust Solid Electrolytes	100	\$74,529	\$42,481	\$117,010
Whittingham, Dr. M Stanley	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$66,991	\$0	\$66,991
Zhong, Dr. Chuan Jian	National Science Foundation	Exploring Synergy of Composition-Tunable Nanoalloys for Catalytic Oxidation of Hydrocarbons	100	\$14,976	\$8,242	\$23,218
Zhong, Dr. Chuan Jian	National Science Foundation	I-Corps: Low-Cost and Highly Efficient Hydrogen Production from Water Splitting	50	\$4,547	\$505	\$5,053
Zhong, Dr. Chuan Jian	Meecotech Incorporated	Unrestricted Research	100	\$21,762	\$3,264	\$25,026
Zhong, Dr. Chuan Jian	BASF Corporation	Controlled synthesis of multi-metallic nanoscale alloys	100	\$57,905	\$33,006	\$90,911
Zhong, Dr. Chuan Jian	National Science Foundation	CAS: Role of Dynamic Surface/ Subsurface Oxygenation of Noble Metal/ 3d-Transition Metal Alloy Nanoparticles in Oxidation Reactions	100	\$69,143	\$36,959	\$106,102

**Department Total: \$4,002,165**

**020 Cinema**

Jacobs, Dr. Kenneth	National Film Preservation Foundation	Binghamton, My India	100	\$3,245	\$0	\$3,245
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**Department Total: \$3,245**

**020 Computer Science**

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Blackburn, Dr. Jeremy	Facebook Incorporated	RFP: Content Policy Research on Social Media Platforms/Monitoring Cross-platform Trends in Hate Speech	100	\$45,352	\$3,628	\$48,980
Blackburn, Dr. Jeremy	Media Ecosystems Analysis Group	A Data-driven Measurement Study of the Use of Preprints in the Realm of Health-related Mis- and Dis-information	100	\$35,709	\$0	\$35,709
Blackburn, Dr. Jeremy	National Science Foundation	Collaborative Research: SaTC: Core: Small: Detecting Accounts Involved in Influence Campaigns on Social Media	100	\$79,791	\$22,653	\$102,444
Blackburn, Dr. Jeremy	National Science Foundation	CAREER: Towards a Data-Driven Understanding of Online Sentiment	100	\$12,898	\$7,352	\$20,251
Chiu, Dr. Kenneth	National Science Foundation	Spokes: SMALL: NORTHEAST: Collaborative: Building the Community to Address Data Integration of the Ecological Long Tail	100	\$30,662	\$15,061	\$45,724
Chiu, Dr. Kenneth	TOTALEnergies E&P Research & Technology USA, LLC	Performance Measurement, Analysis, and Tuning of Seismic and Machine Learning Workloads	100	\$63,296	\$34,981	\$98,277
Dai, Dr. Weiyang	Cornell University	Basal forebrain connections to the heart and mind in healthy aging	100	\$15,422	\$8,791	\$24,213
Dai, Dr. Weiyang	National Science Foundation	Mechanics of the Formation of Cortical Folding Patterns in the Developing Human Brain	50	\$30,986	\$7,125	\$38,111
Ghose, Dr. Kanad	Lockheed Martin Corporation	Supplier Development Efforts for the DARPA SSITH Program Phases 1-3	60	\$63,093	\$35,963	\$99,056
Ghose, Dr. Kanad	Purdue University	CHIRP: Exploration of Holistic Scaleout Designs Within Heterogeneous Packages for HPC/Server Processors (Proposal Number	50	\$13,506	\$7,699	\$21,205
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	\$11,026	\$6,285	\$17,311

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Ghose, Dr. Kanad	Flex Tech Alliance	Improved ECG Monitor with Capacitive Electrodes	30	(\$90)	(\$51)	(\$142)
Gopalan, Dr. Kartik	ITRI International Incorporated	Improving Performance and Functionality of Virtual Machine Templating	100	\$79	\$45	\$124
Gopalan, Dr. Kartik	National Science Foundation	CyberCorps Scholarship for Service: Expanding and Strengthening the National Cybersecurity Workforce	15	\$578	\$329	\$907
Govindaraju, Dr. Madhusudhan	Multiple Sponsors	CS Internationalization Program	100	\$831	\$208	\$1,038
Govindaraju, Dr. Madhusudhan	National Science Foundation	S12-SSE: Expanding the Scope of Materials Modeling with Electron Phonon Wannier (EPW) Software	100	\$18,991	\$10,825	\$29,815
Kang, Dr. Kyoung-Don	National Science Foundation	CNS Core: Small: Toward Real-Time Stream Processing in Edge Devices	100	\$69,305	\$35,535	\$104,840
Liu, Dr. Yao	National Science Foundation	CSR: Small: A Unified Approach Toward User-specific Improvements of Quality of Experience for Video Streaming	100	\$16,978	\$9,338	\$26,315
Liu, Dr. Yao	National Science Foundation	CAREER: System Research to Enable Practical Immersive Streaming : From 360-Degree Towards Volumetric Video Delivery	100	\$5,283	\$3,011	\$8,294
Liu, Dr. Yao	National Science Foundation	Collaborative Research: CNS Core: Small: From Capture to Consumption: System Challenges in Pervasive 360-Degree Video Sharing	100	\$7,295	\$4,158	\$11,454
Liu, Dr. Yu David	National Science Foundation	CRI: CI-New: Collaborative Research: Extensible, Software Enabled Unmanned Aerial Vehicles	100	\$8,902	\$5,074	\$13,976
Liu, Dr. Yu David	National Science Foundation	CNS Core: Small: Language Runtime Support for Energy- Aware Applications	100	\$91,628	\$45,232	\$136,861

<u><i>Investigator</i></u>	<u><i>Sponsor Name</i></u>	<u><i>Award Title</i></u>	<u><i>% Credited to Investigator</i></u>	<u><i>Direct Costs Expended</i></u>	<u><i>F &amp; A Expended</i></u>	<u><i>Total Expended</i></u>
Liu, Dr. Yu David	National Science Foundation	SHF: Small: Lazy Data Structures for Data-Intensive Applications	100	\$97,585	\$45,054	\$142,639
Liu, Dr. Yu David	National Science Foundation	Collaborative Research: SaTC: CORE: Medium: Leakage-Free Isolated Execution: Architectures and Security Models	50	\$22,277	\$10,988	\$33,265
Lu, Mr. Hui	National Science Foundation	CNS Core: Small: Collaborative: Salvaging Commodity Operating Systems to Support Emerging Networking Technologies	100	\$39,119	\$21,749	\$60,868
Naghibijouybari, Dr. Hoda	National Science Foundation	SaTC: CORE: Small: Microarchitectural side channel attacks and defenses in integrated CPU-GPU systems	100	\$10,600	\$0	\$10,600
Ponomarev, Dr. Dmitry V	National Science Foundation	Collaborative Research: SaTC: CORE: Medium: Leakage-Free Isolated Execution: Architectures and Security Models	50	\$22,277	\$10,988	\$33,265
Ponomarev, Dr. Dmitry V	National Science Foundation	CyberCorps Scholarship for Service: Expanding and Strengthening the National Cybersecurity Workforce	15	\$578	\$329	\$907
Prakash, Dr. Aravind	Lockheed Martin Corporation	Supplier Development Efforts for the DARPA SSITH Program Phases 1-3	30	\$31,547	\$17,982	\$49,528
Prakash, Dr. Aravind	US Navy Office of Naval Research	ALBER: A Backward-Compatible Late-Stage Debloating Platform for Mobile and Desktop Environments	100	\$47,478	\$26,513	\$73,991
Prakash, Dr. Aravind	National Science Foundation	CAREER: Binary-Level Security via ABI-Centric Semantic Inference	100	\$7,431	\$4,235	\$11,666
Prakash, Dr. Aravind	Critical Technologies	Self-Healing Ship/ Software Systems (SHSS)	100	\$2,188	\$1,247	\$3,435
Prakash, Dr. Aravind	National Science Foundation	CyberCorps Scholarship for Service: Expanding and Strengthening the National Cybersecurity Workforce	15	\$578	\$329	\$907

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Sha, Dr. Mo	National Science Foundation	CAREER: Advancing Network Configuration and Runtime Adaption Methods for Industrial Wireless Sensor- Actuator Networks	100	\$5,736	\$3,269	\$9,005
Shin, Dr. Seunghee	Research and Business Foundation of Korea University	Research on CPU Vulnerability Detection and Validation	100	\$28,466	\$4,839	\$33,305
Shin, Dr. Seunghee	National Science Foundation	CAREER: Hardware/Software Co-Design for Serverless Computing	100	\$10,860	\$6,190	\$17,050
Yan, Dr. Guanhua	State University of New York	Real-Time Detection of Advanced Malware Attacks with Ensembles of Graph Neural Networks	60	\$1,554	\$0	\$1,554
Yan, Dr. Guanhua	National Science Foundation	Career: Proactive Techniques for Enhancing Security and Resilience of Mobile Communication Infrastructure	100	\$34,888	\$13,046	\$47,934
Yan, Dr. Guanhua	IBM Corporation	Real-Time Detection of Advanced Malware Attacks with Ensembles of Graph Neural Networks	60	\$24,763	\$0	\$24,763
Yan, Dr. Guanhua	National Science Foundation	TWC: Small: A Moving Target Approach to Enhancing Machine Learning-Based Malware Defense	100	\$45,654	\$25,566	\$71,220
Yan, Dr. Guanhua	National Science Foundation	CICI: RSARC: Infrastructure support for securing large-scale scientific workflows	35	\$28,721	\$14,433	\$43,154
Yang, Dr. Ping	IBM Corporation	Real-Time Detection of Advanced Malware Attacks with Ensembles of Graph Neural Networks	40	\$16,509	\$0	\$16,509
Yang, Dr. Ping	National Science Foundation	CICI: RSARC: Infrastructure support for securing large-scale scientific workflows	65	\$53,339	\$26,804	\$80,143
Yang, Dr. Ping	National Science Foundation	CyberCorps Scholarship for Service: Expanding and Strengthening the National Cybersecurity Workforce	40	\$1,540	\$878	\$2,418

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Yang, Dr. Ping	State University of New York	Real-Time Detection of Advanced Malware Attacks with Ensembles of Graph Neural Networks	40	\$1,036	\$0	\$1,036
Yin, Dr. Lijun	National Science Foundation	CI-SUSTAIN: Collaborative Research: Extending a Large Multimodal Corpus of Spontaneous Behavior for Automated Emotion Analysis	100	\$50,332	\$27,647	\$77,978
Yin, Dr. Lijun	National Science Foundation	CI-SUSTAIN: Collaborative Research: Extending a Large Multimodal Corpus of Spontaneous Behavior for Automated Emotion Analysis	100	\$3,400	\$0	\$3,400
Yu, Dr. Lei	General Electric Global Research	Learning robust and Accurate Multiphysics/Multiscale Simulators Using Deep Reinforcement Learning	100	\$48,670	\$27,473	\$76,143
Yu, Dr. Lei	NYS Energy Research and Development Authority	Stability Impact Analysis of the New York Power Grid with High Penetration of Inverter Based Distributed Energy Resources Agreement 159612	40	\$27,117	\$15,018	\$42,134
Yu, Dr. Lei	US Department of Energy	Asynchronous Distributed and Adaptive Parameter Tuning (ADAPT) for Hybrid PV Plants	25	\$45,345	\$18,541	\$63,886
Zhang, Dr. Shiqi	National Science Foundation	NRI: FND: Knowledge-based Robot Sequential Decision Making under Uncertainty	100	\$67,581	\$31,681	\$99,263
Zhang, Dr. Shiqi	National Science Foundation	NRI: FND: Knowledge-based Robot Sequential Decision Making under Uncertainty	100	\$646	\$0	\$646
Zhang, Dr. Shiqi	Ford Motor Company	Ford RIC Unrestricted Support	100	\$113,188	\$16,978	\$130,166
Zhang, Dr. Yifan	National Science Foundation	CAREER: Enabling Edge-hosted Private Services via Unikernel based Lightweight Virtualization	100	\$34,243	\$18,969	\$53,212
Zhang, Dr. Yifan	National Science Foundation	CAREER: Enabling Edge-hosted Private Services via Unikernel based Lightweight Virtualization	100	\$15,000	\$0	\$15,000

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Zhang, Dr. Yifan	Lockheed Martin Corporation	Supplier Development Efforts for the DARPA SSITH Program Phases 1-3	10	\$10,516	\$5,994	\$16,509
<b>Department Total:</b>				<b>\$2,232,262</b>		
<b>020 DSON/Speech Language Pathology</b>						
Gabel, Dr. Rodney	Gigis Playhouse	Clinical Placement Agreement between GIGI's Playhouse Southern Tier and The Research Foundation For The State University of New York, Binghamton University	100	\$3,571	\$929	\$4,500
Gabel, Dr. Rodney	Maine Endwell School District	Clinical Placement Agreement between Maine Endwell Central School District and The Research Foundation For The State University of New York, Binghamton University	100	\$19,442	\$5,055	\$24,497
Gabel, Dr. Rodney	Newark Valley Central School District	Clinical Placement Agreement between Newark Valley Central School District and The Research Foundation For The State University of New York, Binghamton University	100	\$5,714	\$1,486	\$7,200
Gabel, Dr. Rodney	Whitney Point Central School District	Clinical Placement Agreement between Whitney Point Central School District and The Research Foundation For The State University of New York, Binghamton University	100	\$42,141	\$10,957	\$53,098
<b>Department Total:</b>				<b>\$89,294</b>		
<b>020 Economics</b>						
Wolcott, Dr. Susan	National Science Foundation	Cilometrics Conferences for 2018, 2019, and 2020	100	\$12,634	\$1,653	\$14,287
Yang, Dr. Zili	Yale University	DICE/RICE Modeling Works for Yale Climate Change Research Program (YCCPR)	100	\$42,953	\$4,295	\$47,248
<b>Department Total:</b>				<b>\$61,535</b>		
<b>020 Electrical and Computer Engineering</b>						

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Akyol, Dr. Emrah	National Science Foundation	CIF: Small: Strategic Communication: Concepts, Methods, and Applications	100	\$20,356	\$11,603	\$31,960
Akyol, Dr. Emrah	National Science Foundation	CAREER: A Holistic Framework for the Analysis of Information Dynamics in Human Networks	100	\$4,068	\$2,319	\$6,387
Chen, Dr. Yu	National Science Foundation	EAGER: SaTC: CORE: Small: Decentralized Assurance by Fair Proof of Work Consensus Federated Ledgers	100	\$4,199	\$2,393	\$6,592
Chen, Dr. Yu	US Air Force Office of Scientific Research	ERSES-5G: Integrated 5G Imaging and Communication Surveillance as an Edge Service Secured by a Lightweight Environmental Fingerprint Consensus Blockchain	50	\$41,947	\$18,449	\$60,396
Chen, Dr. Yu	US Air Force Office of Scientific Research	5G-MiWIS: A Testbed for an Environmental Resilient 5G Millimeter Wave Imaging Technology based Surveillance System	50	\$40,134	\$0	\$40,134
Chen, Dr. Yu	National Science Foundation	EAGER: SaTC: SAVED: Secure Audio and Video Data from Deepfake Attacks Leveraging Environmental Fingerprints	100	\$60,592	\$32,891	\$93,483
Chen, Dr. Yu	National Science Foundation	CyberCorps Scholarship for Service: Expanding and Strengthening the National Cybersecurity Workforce	15	\$578	\$329	\$907
Choi, Dr. Seokheun	National Science Foundation	Power-On-Skin: Energy Generation from Sweat-Eating Bacteria for Self-Powered Electronic Skins	60	\$101,354	\$48,905	\$150,260
Choi, Dr. Seokheun	National Science Foundation	Stretchable Papertronics	50	\$28,743	\$13,967	\$42,710
Choi, Dr. Seokheun	National Science Foundation	Rapid, High-Throughput, and Real-time Assessment of Antibiotic Effectiveness against Pathogenic Biofilms	100	\$30,837	\$17,577	\$48,414
Choi, Dr. Seokheun	US Navy Office of Naval Research	Supercapacitive Micro-Bio-Photovoltaics for Sustainable Wireless Sensor Networks	100	\$11,566	\$6,570	\$18,135



<u><i>Investigator</i></u>	<u><i>Sponsor Name</i></u>	<u><i>Award Title</i></u>	<u><i>% Credited to Investigator</i></u>	<u><i>Direct Costs Expended</i></u>	<u><i>F &amp; A Expended</i></u>	<u><i>Total Expended</i></u>
Choi, Dr. Seokheun	US Navy Office of Naval Research	Plug-n-Play Micro-Bio-Photovoltaic Panels	100	\$73,357	\$31,936	\$105,293
Das, Dr. Pritam	NYS Energy Research and Development Authority	Feasibility Study of an Onboard XFC/Motor Drive System with Extended Lifetime Batteries Agreement No. 138104	100	\$35,754	\$20,380	\$56,134
Das, Dr. Pritam	Mallika Ashwin Maya	Battery Energy Storage System (BESS) with Three Phase Grid Integrated Inverter Using 3D Printed Magnetics Components with Nanocrystalline Soft Magnetic Material	50	\$15,049	\$8,578	\$23,627
Das, Dr. Pritam	National Science Foundation	I-Corps - Vanadium Redox Flow Batteries for Small Urban Businesses	100	\$7,616	\$846	\$8,462
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	\$40,188	\$20,133	\$60,321
Dhakal, Dr. Tara Prasad	SunDensity	Center for Autonomous Solar Power (CASP): Evaluation Services Agreement	100	\$33,893	\$19,319	\$53,212
Dhakal, Dr. Tara Prasad	National Science Foundation	PFI-TT: Next Generation High Energy Storage, Light Weight Capacitors	50	\$20,194	\$5,250	\$25,444
Dhakal, Dr. Tara Prasad	National Science Foundation	PFI-TT: Next Generation High Energy Storage, Light Weight Capacitors	50	\$13,906	\$1,545	\$15,451
Dhakal, Dr. Tara Prasad	National Science Foundation	PFI-TT: Next Generation High Energy Storage, Light Weight Capacitors	50	\$23,727	\$12,976	\$36,703
Dhakal, Dr. Tara Prasad	National Science Foundation	CAREER: Toward Twenty Year Lifetime: Hermetic Sealing for Perovskite Solar Cells	100	\$53,246	\$29,252	\$82,498
Dhakal, Dr. Tara Prasad	Flex Tech Alliance	Improved ECG Monitor with Capacitive Electrodes	30	(\$90)	(\$51)	(\$142)

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Dhakal, Dr. Tara Prasad	GVD Corporation	SBIR Phase II: Reduced Environmental Controls in Perovskite Solar Cell Manufacturing Enabled by Vacuum-Deposited Gas Barrier Coatings	100	\$48,503	\$27,098	\$75,600
Fridrich, Dr. Jessica J.	National Science Foundation	SaTC: CORE: Medium: Steganography Based on Sensor Capture Models: Replacing Heuristics with Model-Based Designs	100	\$113,207	\$59,842	\$173,049
Li, Dr. Jian	National Science Foundation	CRII: CNS: NeTS: Adaptive Cache Dimensioning in Cloud CDNs: Foundations and Practice	100	\$80,523	\$39,058	\$119,580
Li, Dr. Jian	US Department of Energy	Asynchronous Distributed and Adaptive Parameter Tuning (ADAPT) for Hybrid PV Plants	25	\$45,345	\$18,541	\$63,886
Li, Dr. Xiaohua	US Air Force Office of Scientific Research	5G-MiWIS: A Testbed for an Environmental Resilient 5G Millimeter Wave Imaging Technology based Surveillance System	50	\$40,134	\$0	\$40,134
Li, Dr. Xiaohua	US Air Force Office of Scientific Research	ERSES-5G: Integrated 5G Imaging and Communication Surveillance as an Edge Service Secured by a Lightweight Environmental Fingerprint Consensus Blockchain	50	\$41,947	\$18,449	\$60,396
Summerville, Dr. Douglas H	Jaunt Air Mobility LLC	The Development of Extreme Fast Charging (XFC) Solutions to Support Electric Aircraft Development and Large-scale Production and Fleet Support	100	\$1,925	\$1,097	\$3,022
Zhang, Dr. Peng	US Department of Energy	Asynchronous Distributed and Adaptive Parameter Tuning (ADAPT) for Hybrid PV Plants	100	\$0	\$14,250	\$14,250
Zhang, Dr. Ziang	National Science Foundation	PFI-TT: Next Generation High Energy Storage, Light Weight Capacitors	20	\$9,491	\$5,190	\$14,681
Zhang, Dr. Ziang	National Science Foundation	PFI-TT: Next Generation High Energy Storage, Light Weight Capacitors	20	\$5,563	\$618	\$6,181
Zhang, Dr. Ziang	National Science Foundation	PFI-TT: Next Generation High Energy Storage, Light Weight Capacitors	20	\$8,077	\$2,100	\$10,178

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Zhang, Dr. Ziang	NYS Energy Research and Development Authority	Agreement 127609- A Flexible Storage Plus Distributed Energy Resource (DER) Solution for Warehouse Energy Management	60	\$60,282	\$30,200	\$90,482
Zhang, Dr. Ziang	NYS Energy Research and Development Authority	Stability Impact Analysis of the New York Power Grid with High Penetration of Inverter Based Distributed Energy Resources Agreement 159612	60	\$40,675	\$22,526	\$63,202
Zhang, Dr. Ziang	US Department of Energy	Asynchronous Distributed and Adaptive Parameter Tuning (ADAPT) for Hybrid PV Plants	25	\$45,345	\$18,541	\$63,886
Zhang, Dr. Ziang	Empire State Development Corp	Smart Cities Innovation Partnership Project: Advanced Water Meters in New York State: Capital Grant: Project#134,146	33	\$4,718	\$685	\$5,403
Zhou, Dr. Ning	National Science Foundation	CAREER: Integrated Dynamic State Estimation for Monitoring Power Systems Under High Uncertainty and Variation	100	\$47,632	\$26,052	\$73,684
Zhou, Dr. Ning	Pacific Northwest National Laboratory	Correlation Analysis of Wide-Area Oscillations in the Eastern Interconnection	100	\$765	\$435	\$1,200
Zhou, Dr. Ning	US Department of Energy	Asynchronous Distributed and Adaptive Parameter Tuning (ADAPT) for Hybrid PV Plants	25	\$45,345	\$18,541	\$63,886
<b>Department Total:</b>				<b>\$1,909,082</b>		

**020 English**

Brown, Dr. David Sterling	American Council of Learned Societies	Minding Whiteness: The Racial Imaginaries of Our Time	100	\$75,000	\$0	\$75,000
<b>Department Total:</b>				<b>\$75,000</b>		

**020 Entrepreneurship and Innovation Partnership**

Iankova, Dr. Elena A	Economic Development Administration	Soft Landings in New York's Southern Tier	50	\$45,217	\$11,756	\$56,974
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<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
McKeage, Mr. Louis G	Multiple Sponsors	TAAC Income Account	100	\$5,094	\$978	\$6,073
McKeage, Mr. Louis G	Economic Development Administration	Trade Adjustment Assistance Center Serving New York, New Jersey, and the Commonwealth of Puerto Rico	100	\$9,372	\$380	\$9,752
McKeage, Mr. Louis G	Economic Development Administration	Trade Adjustment Assistance Center Serving New York, New Jersey, and the Commonwealth of Puerto Rico	100	\$257,860	\$49,509	\$307,369
McKeage, Mr. Louis G	Economic Development Administration	Trade Adjustment Assistance Center Service New York, New Jersey, and the Commonwealth of Puerto Rico	100	\$313,455	\$60,183	\$373,639
McKeage, Mr. Louis G	Economic Development Administration	Trade Adjustment Assistance Center Service New York, New Jersey, and the Commonwealth of Puerto Rico	100	\$173,851	\$0	\$173,851
McLeod, Dr. Kenneth J	VentureWell	Faculty Grant - Developing an Entrepreneurial Mindset in First Year Women Students	100	\$4,318	\$0	\$4,318
Petrova, Dr. Olga	National Science Foundation	I-Corps: Manufacturing Process for Recycled Glass Pozzolan	100	\$6,665	\$740	\$7,405
Petrova, Dr. Olga	VentureWell	KLAW Industries Recycled Glass Cement Replacement	100	\$20,000	\$0	\$20,000
Stromhaug, Dr. Per	National Science Foundation	Type 1: Innovation Binghamton NSF I-Corps Site	100	\$242	\$138	\$380
Stromhaug, Dr. Per	NYS Energy Research and Development Authority	Southern Tier Clean Energy Incubator-NYSERDA 110470	100	\$273,418	\$71,089	\$344,507
Stromhaug, Dr. Per	NYS Energy Research and Development Authority	Southern Tier Clean Energy Incubator-NYSERDA 110470	100	\$30,121	\$7,831	\$37,952

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Stromhaug, Dr. Per	NYS Electric and Gas Corporation	NYSEG Ignition Program	100	\$25,000	\$0	\$25,000
Stromhaug, Dr. Per	NYS Department of Economic Development	Binghamton University's Business Incubator Program	100	\$97,379	\$0	\$97,379
Stromhaug, Dr. Per	National Science Foundation	Type 1: Innovation Binghamton NSF I-Corps Site	100	\$87,369	\$0	\$87,369
Stromhaug, Dr. Per	Multiple Sponsors	Export NY Coordinator and Continued CIBA Activities	100	\$13,786	\$2,068	\$15,854
Stromhaug, Dr. Per	Economic Development Administration	Soft Landings in New York's Southern Tier	50	\$45,217	\$11,756	\$56,974
Stromhaug, Dr. Per	Economic Development Administration	EDA i6 Challenge Binghamton XCEEDs	100	\$234,032	\$42,626	\$276,658
Stromhaug, Dr. Per	Economic Development Administration	New Energy New York	50	\$58,117	\$13,368	\$71,485
Stromhaug, Dr. Per	NYS Energy Research and Development Authority	Agreement 154461: empowerST: Empowering Energy Storage Entrepreneurship in the Southern Tier	50	\$598	\$341	\$939
Stromhaug, Dr. Per	National Science Foundation	Type 1: Innovation Binghamton NSF I-Corps Site	100	\$61,510	\$35,061	\$96,571
<b>Department Total:</b>				<b>\$2,070,446</b>		

**020 Geography**

Deng, Dr. Chengbin	Empire State Development Corp	Smart Cities Innovation Partnership Project: Advanced Water Meters in New York State: Capital Grant: Project#134,146	33	\$4,718	\$685	\$5,403
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<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Pangallozzi, Dr. Laura	Cary Institute of Ecosystem Studies	Modeling the Susceptibility of Catskill Waterbodies to Invasive Plants and Animals	100	\$11,840	\$2,368	\$14,208
				<b>Department Total:</b>	<b>\$19,611</b>	
<b>020 Geological Sci &amp; Environmental Studies</b>						
de Smet, Dr. Timothy	National Science Foundation	I-Corps: An integrated wide-area unmanned aerial vehicle (UAV) aeromagnetic survey system targeting orphaned oil and gas wells	50	\$12,924	\$1,436	\$14,360
Graney, Dr. Joseph R	National Science Foundation	GP-EXTRA: Freshman Research in Biogeochemistry for Engagement and Retention	20	\$2,838	\$1,419	\$4,258
Jenkins, Dr. David M	National Science Foundation	Stability and Thermochemistry of some Chlorine-Bearing Calcium Amphiboles	100	\$32,074	\$18,282	\$50,356
Knuepfer, Dr. Peter	NYS Department of Environmental Conservation	Great Lakes Small Grants Program	100	\$21,911	\$0	\$21,911
Kulp, Dr. Thomas	National Science Foundation	GP-EXTRA: Freshman Research in Biogeochemistry for Engagement and Retention	20	\$2,838	\$1,419	\$4,258
Lowenstein, Dr. Tim K	National Science Foundation	GP-EXTRA: Freshman Research in Biogeochemistry for Engagement and Retention	20	\$2,838	\$1,419	\$4,258
Lowenstein, Dr. Tim K	US Israel Binational Science Foundation	Evaporite deposition in deep hypersaline basins: New insights from modern halite in the Dead Sea	100	\$18,748	\$2,812	\$21,560
Lowenstein, Dr. Tim K	National Science Foundation	Collaborative Research: Anatomy of a Greenhouse World: The Early Eocene of the Green River Basin, Wyoming	100	\$22,190	\$5,769	\$27,959
Lowenstein, Dr. Tim K	National Science Foundation	Collaborative Research: Regional hydrologic and vegetation changes over the last 150 kyr in the Searles and Death Valley basins	100	\$35,162	\$19,505	\$54,667

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Nikulin, Dr. Alex	American Chemical Society	Unconventional Seismic Imaging in Unconventional Reservoir Characterization : A Passive-Source Seismic Investigation of the Marcellus and Utica Shale Plays	100	\$16,480	\$0	\$16,480
Nikulin, Dr. Alex	National Science Foundation	I-Corps: An integrated wide-area unmanned aerial vehicle (UAV) aeromagnetic survey system targeting orphaned oil and gas wells	50	\$12,924	\$1,436	\$14,360
Patterson, Dr. Molly	National Science Foundation	COLLABORATIVE RESEARCH: Orbital-scale Variability of the West Antarctic Ice Sheet and the Formation of Bottom Water in the Ross Sea during Pliocene-Pleistocene	100	\$25,361	\$6,594	\$31,955
Pietras, Dr. Jeffrey T	American Chemical Society	Linking the Distribution, Surface Morphology, Pore Structure, and Environmental Conditions of Lacustrine Microbialite Reservoir Facies: Fayetteville Green Lake, New York	50	\$7,495	\$0	\$7,495
Pietras, Dr. Jeffrey T	Foundation of SUNY at Binghamton	Start Up Support Provided by Private Donor	100	\$1,217	\$0	\$1,217
Schmitkons, Mr. Jonathan P.	American Chemical Society	Linking the Distribution, Surface Morphology, Pore Structure, and Environmental Conditions of Lacustrine Microbialite Reservoir Facies: Fayetteville Green Lake, New York	50	\$7,495	\$0	\$7,495

**Department Total: \$282,589**

**020 Graduate School Dean**

Mahler, Dr. Gretchen J	Foundation of SUNY at Binghamton	2021-2022 Graduate Assistant/ Fellowship Support Funded Through BU Foundation Accounts	100	\$59,000	\$0	\$59,000
Mahler, Dr. Gretchen J	National Science Foundation	Graduate Research Fellowship Program	100	\$7,486	\$0	\$7,486
Mahler, Dr. Gretchen J	National Science Foundation	Graduate Research Fellowship Funding 2021-2026	100	\$36,405	\$0	\$36,405

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Mahler, Dr. Gretchen J	National Science Foundation	Graduate Research Fellowship Funding 2021-2026	100	\$39,311	\$0	\$39,311
				<b>Department Total:</b>	<b>\$142,202</b>	
<b>020 Health and Wellness Studies</b>						
Begdache, Ms. Lina A	Nano-Bio Materials Consortium	Epifluidics for Stress Monitoring	25	\$13,598	\$6,041	\$19,638
				<b>Department Total:</b>	<b>\$19,638</b>	
<b>020 Library Administration</b>						
Galbraith, Dr. James	NYS Education Department	Library Collections 2020-2022	100	\$21,853	\$0	\$21,853
Parks, Ms. Heather	NYS Education Department	Conservation & Preservation 2020-2022	100	\$12,389	\$0	\$12,389
Vose, Dr. David	NYS Education Department	Library Collection Aid 2021-2022	100	\$22,332	\$0	\$22,332
				<b>Department Total:</b>	<b>\$56,574</b>	
<b>020 Mathematical Sciences</b>						
Chen, Dr. Mei-Hsiu	National Science Foundation	Mechanobiology of Myofibroblast Behavior in Health and Disease	25	\$31,345	\$16,935	\$48,280
Kargin, Dr. Vladislav	Simons Foundation	Research on Random Matrices and its Applications	100	\$400	\$80	\$480
Malkiewich, Dr. Cary	National Science Foundation	Algebraic K-Theory in Fixed-Point Theory and Smooth Manifolds	100	\$15,431	\$8,796	\$24,227



<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Malkiewich, Dr. Cary	National Science Foundation	FRG: Collaborative Research: Trace Methods and Applications for Cut-and-Paste K-Theory	100	\$213	\$122	\$335
Ontaneda, Dr. Pedro	National Science Foundation	Challenges in Negative and Nonpositive Curvature	100	\$33,139	\$18,889	\$52,028
Polunchenko, Dr. Aleksey S	Simons Foundation	New advances in quickest change-point detection with applications	100	\$3,855	\$639	\$4,494
Zhou, Dr. Gang	Simons Foundation	Mathematical problems in non-equilibrium statistical mechanics, and singularities formed by geometric flows	100	\$1,980	\$396	\$2,376

**Department Total: \$132,220**

**020 Mechanical Engineering**

Chiarot, Dr. Paul	National Science Foundation	CAREER: Additive Manufacturing using Electro spray Printing of Nanoparticle Inks	100	\$76,753	\$39,364	\$116,117
Chiarot, Dr. Paul	National Science Foundation	Capillary-Assisted Printing of Structured Colloidal Monolayers	33	\$30,991	\$13,813	\$44,804
Chiarot, Dr. Paul	Purdue University	Chiarot 2020 SRC CHIRP: Conformal Polymeric Thin Films Manufacturing Using Electro spray Printing	100	\$29,363	\$13,761	\$43,124
Chiarot, Dr. Paul	Purdue University	CHIRP 2021: Printed Conformal Metal Films for electromagnetic Interference (EMI) Protection Semiconductor Research Corporation Prime Agreement 2019-PK-2878	100	\$3,666	\$2,089	\$5,755
Cho, Dr. Junghyun	Universal Instruments Corporation	Electronic Assembly Solder Alloy Development	100	\$25,568	\$5,088	\$30,656
Cho, Dr. Junghyun	Universal Instruments Corporation	Electronic Assembly Solder Alloy Development	100	\$13,029	\$3,388	\$16,416

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Cho, Dr. Junghyun	Honeywell Federal Manufacturing & Technologies LLC	PDRD-Conformal Coating Tine Whiskers year 3 Rev. 2	100	\$26,481	\$15,094	\$41,575
Cho, Dr. Junghyun	Honeywell Federal Manufacturing & Technologies LLC	Adhesives Characterization- Project 702010, Rev. 1	100	\$36,421	\$18,344	\$54,764
Huang, Dr. Pong-Yu	National Science Foundation	Mechanobiology of Myofibroblast Behavior in Health and Disease	25	\$31,345	\$16,935	\$48,280
Huang, Dr. Pong-Yu	National Science Foundation	Capillary-Assisted Printing of Structured Colloidal Monolayers	33	\$30,991	\$13,813	\$44,804
Ke, Dr. Changhong	National Science Foundation	PFI-TTT: Enhanced Electronic Cooling via 3D Printing from Additive Laser Fabrication of Heat Removal Devices	25	\$3,431	\$1,939	\$5,371
Ke, Dr. Changhong	National Science Foundation	Multiple-Energy- Assisted Ultrasharp Probe-Based Nanomanufacturing for High-Resolution and High-Efficiency Nanopatterning	50	\$46,862	\$25,888	\$72,749
Ke, Dr. Changhong	National Inst on Deafness & Other Comm Disorders	Capacitive Pressure/ Velocity Probe for Acoustic Measurements in the Human Ear Canal	33	\$63,823	\$25,817	\$89,641
Ke, Dr. Changhong	Cornell University	NASA NY Space Grant Consortium	100	\$10,545	\$0	\$10,545
Ke, Dr. Changhong	Board of Regents of the University of Nebraska	Numerical Simulation of Spray Deposited Electrolyte Layer for Proton Conducting Fuel Cells	100	\$18,835	\$9,638	\$28,472
Ke, Dr. Changhong	National Science Foundation	Collaborative Research: Exploiting Nanoscale Interfaces to Enhance Bulk Mechanical Response of Additively Manufactured Boron Nitride Nanotube-Metal Composites	100	\$21,283	\$12,131	\$33,414
Miles, Dr. Ronald N	National Inst on Deafness & Other Comm Disorders	Capacitive Pressure/ Velocity Probe for Acoustic Measurements in the Human Ear Canal	67	\$129,581	\$52,417	\$181,998

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Murray, Dr. Bruce T	National Science Foundation	Mechanobiology of Myofibroblast Behavior in Health and Disease	25	\$31,345	\$16,935	\$48,280
Park, Dr. Seungbae	Koh Young Technology Incorporated	Development of Self-Optimization and AI-based Diagnostics Modules in the Printed Circuit Board Assembly Process	34	\$10,508	\$5,803	\$16,310
Park, Dr. Seungbae	SUNY Applied Materials Research Institute	Design, Develop and Demonstrate a True 3D Packaging	25	\$1,648	\$939	\$2,587
Park, Dr. Seungbae	Purdue University	Radiation-Hard Microelectronics Workforce Development Consortium Subagreement No. 13000844-021	33	\$7,915	\$4,330	\$12,245
Park, Dr. Seungbae	Purdue University	Radiation-Hard Microelectronics Workforce Development Consortium Subagreement No. 13000844-021	33	\$5,449	\$3,106	\$8,555
Park, Dr. Seungbae	Purdue University	CHIRP: Minimizing Thermal Interfacial Resistance in Heterogeneous Integrated Integration (HI): A Benchmarking Study and Production Tool (Proposal Number W32613)	25	\$4,596	\$2,620	\$7,216
Park, Dr. Seungbae	Koh Young Technology Incorporated	Development of Closed-Loop Control and Optimization Modules of the Printed Circuit Board Assembly Processes in Surface Mount Technology	34	\$28,719	\$15,021	\$43,740
Park, Dr. Seungbae	Koh Young Technology Incorporated	Development of Pick and Placement Machine On/Offline Optimization and Diagnosis Modules in Printed Circuit Board Assembly Process	34	\$655	\$0	\$655
Park, Dr. Seungbae	Koh Young Technology Incorporated	Development of Pick and Placement Machine On/Offline Optimization and Diagnosis Modules in Printed Circuit Board Assembly Process	34	\$26,609	\$14,004	\$40,614
Park, Dr. Seungbae	General Electric Global Research	ACORN (Air-deployable Cost-effective Organic Radiation Nodes)	100	\$37,912	\$18,190	\$56,101
Park, Dr. Seungbae	Applied Materials	Design, Develop and Demonstrate a True 3D Packaging	25	\$3,472	\$1,979	\$5,452

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Park, Dr. Seungbae	Koh Young Technology Incorporated	AI-based System Integration for Process Enhancement in the Printed Circuit Board Assembly	34	\$13,533	\$5,991	\$19,525
Pitarresi, Dr. James	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$33,587	\$14,015	\$47,601
Pitarresi, Dr. James	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$66,991	\$0	\$66,991
Razavi Aghjeh, Dr. Mir Jalil	National Science Foundation	Mechanics of the Formation of Cortical Folding Patterns in the Developing Human Brain	50	\$30,986	\$7,125	\$38,111
Sammakia, Dr. Bahgat G	Purdue University	CHIRP: Minimizing Thermal Interfacial Resistance in Heterogeneous Integrated Integration (HI): A Benchmarking Study and Production Tool (Proposal Number W32613)	25	\$4,596	\$2,620	\$7,216
Sammakia, Dr. Bahgat G	SUNY Applied Materials Research Institute	Design, Develop and Demonstrate a True 3D Packaging	25	\$1,648	\$939	\$2,587
Sammakia, Dr. Bahgat G	Purdue University	Radiation-Hard Microelectronics Workforce Development Consortium Subagreement No. 13000844-021	34	\$8,154	\$4,461	\$12,616
Sammakia, Dr. Bahgat G	Purdue University	Sammakia 2020 SRC CHIRP: Design, Fabrication, and Testing of Metal Porous Media for Thermal Capacitor and Immersion Cooling Applications	100	\$21,154	\$12,058	\$33,212
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	\$11,360	\$6,475	\$17,836
Sammakia, Dr. Bahgat G	Applied Materials	Design, Develop and Demonstrate a True 3D Packaging	25	\$3,472	\$1,979	\$5,452

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Sammakia, Dr. Bahgat G	National Science Foundation	PFI-TTT: Enhanced Electronic Cooling via 3D Printing from Additive Laser Fabrication of Heat Removal Devices	25	\$3,431	\$1,939	\$5,371
Sammakia, Dr. Bahgat G	NASA NY Space Grant Consortium	AeroBing Rocketry Research Group	100	\$1,185	\$0	\$1,185
Sammakia, Dr. Bahgat G	Multiple Sponsors	Sounding Rocket Design	100	\$957	\$0	\$957
Sammakia, Dr. Bahgat G	Purdue University	CHIRP: Exploration of Holistic Scaleout Designs Within Heterogeneous Packages for HPC/Server Processors (Proposal Number	50	\$13,506	\$7,699	\$21,205
Sammakia, Dr. Bahgat G	Purdue University	Radiation-Hard Microelectronics Workforce Development Consortium Subagreement No. 13000844-021	34	\$5,614	\$3,200	\$8,814
Schiffres, Dr. Scott	National Science Foundation	CAREER: Intermetallic Interfacial Thermal Transport for Advanced Electronics Manufacturing	100	\$15,060	\$8,584	\$23,644
Schiffres, Dr. Scott	Purdue University	Radiation-Hard Microelectronics Workforce Development Consortium Subagreement No. 13000844-021	33	\$7,915	\$4,330	\$12,245
Schiffres, Dr. Scott	Purdue University	Radiation-Hard Microelectronics Workforce Development Consortium Subagreement No. 13000844-021	33	\$5,449	\$3,106	\$8,555
Schiffres, Dr. Scott	Purdue University	CHIRP: Minimizing Thermal Interfacial Resistance in Heterogeneous Integrated Integration (HI): A Benchmarking Study and Production Tool (Proposal Number W32613)	50	\$9,192	\$5,239	\$14,431
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	\$11,026	\$6,285	\$17,311

<u><i>Investigator</i></u>	<u><i>Sponsor Name</i></u>	<u><i>Award Title</i></u>	<u><i>% Credited to Investigator</i></u>	<u><i>Direct Costs Expended</i></u>	<u><i>F &amp; A Expended</i></u>	<u><i>Total Expended</i></u>
Schiffres, Dr. Scott	National Science Foundation	I-Corps: Additive Laser Metal Deposition onto Silicon for Enhanced Electronics Cooling	100	\$465	\$52	\$517
Schiffres, Dr. Scott	Mallika Ashwin Maya	Battery Energy Storage System (BESS) with Three Phase Grid Integrated Inverter Using 3D Printed Magnetics Components with Nanocrystalline Soft Magnetic Material	50	\$15,049	\$8,578	\$23,627
Schiffres, Dr. Scott	Applied Materials	Design, Develop and Demonstrate a True 3D Packaging	25	\$3,472	\$1,979	\$5,452
Schiffres, Dr. Scott	SUNY Applied Materials Research Institute	Design, Develop and Demonstrate a True 3D Packaging	25	\$1,648	\$939	\$2,587
Schiffres, Dr. Scott	National Science Foundation	PFI-TTT: Enhanced Electronic Cooling via 3D Printing from Additive Laser Fabrication of Heat Removal Devices	50	\$6,862	\$3,879	\$10,741
Towfighian, Dr. Shahrzad	National Science Foundation	MEMS High Voltage Triboelectric Levitation: A Generactuator	100	\$43,889	\$11,111	\$55,000
Towfighian, Dr. Shahrzad	National Science Foundation	MEMS High Voltage Triboelectric Levitation: A Generactuator	100	\$12,981	\$0	\$12,981
Towfighian, Dr. Shahrzad	National Science Foundation	MEMS High Voltage Triboelectric Levitation: A Generactuator	100	\$104,780	\$55,882	\$160,662
Towfighian, Dr. Shahrzad	Empire State Development Corp	Soft ElectroNc Skin-Innervated Robotic Work for Rapid Maintenance of Strategic Assets (Sensiworm)	50	\$120,425	\$18,569	\$138,993
Towfighian, Dr. Shahrzad	Flex Tech Alliance	Soft ElectroNc Skin-Innervated Robotic Work for Rapid Maintenance of Strategic Assets (Sensiworm)	50	\$135,993	\$23,826	\$159,820
Towfighian, Dr. Shahrzad	National Inst of Arthritis Musculoskeletal & Skin	Self-Powered Load Sensors for Total Knee Replacement Health Monitoring	100	\$3,302	\$1,882	\$5,184

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Wang, Dr. Hao	Charge CCCV	Unrestricted Research Support	100	\$250	\$38	\$288
Yong, Dr. Xin Frank	National Institute of General Medical Sciences	Small-molecule membrane interactions as a driver of bacterial outer membrane vesicle biogenesis across species	50	\$45,961	\$22,229	\$68,190
Yong, Dr. Xin Frank	National Science Foundation	Capillary-Assisted Printing of Structured Colloidal Monolayers	34	\$31,930	\$14,232	\$46,162
Yong, Dr. Xin Frank	National Science Foundation	Collaborative Research: Understanding "wild-type" nanoplastic uptake in single microalgae cells with florescence tracking and computational modeling	100	\$5,108	\$2,911	\$8,019
Yu, Dr. Kaiyan	IBM Corporation	Ray-based Distributed Computing in Multi-Task Functional Data Analysis for Neuromorphic Computing and Other Applications	20	\$3,314	\$0	\$3,314
Yu, Dr. Kaiyan	State University of New York	Ray-based Distributed Computing in Multi-Task Functional Data Analysis for Neuromorphic Computing and Other Applications	20	\$3,227	\$0	\$3,227
Zhang, Dr. Pu - DO NOT USE	National Science Foundation	CAREER: Electro-Mechanical Behaviors of Soft Conductive Composites Embedded with Liquid Metal Fiber Networks	100	\$12,105	\$6,900	\$19,005
Zhang, Dr. Pu - DO NOT USE	Technical Data Analysis Incorporated	Testing Agreement - Micro-CT Characterization of Additive Manufactured Stainless Steel Parts	100	\$3,434	\$858	\$4,292
Zhou, Dr. Guangwen	Pacific Northwest National Laboratory	Design, Synthesis, and Assembly of Biomimetic Materials with Novel Functionality, Conducted in Richland, WA, USA	100	\$19,309	\$4,770	\$24,080
Zhou, Dr. Guangwen	US Department of Energy	Northeast Center for Chemical Energy Storage(NECCES)	5	\$2,271	\$1,291	\$3,562
Zhou, Dr. Guangwen	National Science Foundation	Collaborative Research: Coordinated In-Situ Dynamic Experiments and Atomistic Modeling of Surface Segregation in Alloys	100	\$34,198	\$18,395	\$52,593

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Zhou, Dr. Guangwen	Empire State Development Corp	HTMG: EFRC-NE Center of Energy Storage	12.5	\$2,285	\$430	\$2,715
Zhou, Dr. Guangwen	US Department of Energy	In Situ Visualization and Theoretical Modeling of Early Stages of Oxidation of Metals and Alloys	100	\$88,568	\$45,544	\$134,112
<b>Department Total:</b>				<b>\$2,420,228</b>		

**020 Pharmaceutical Sciences**

Beedle, Dr. Aaron	ReveraGen Biopharma Incorporated	SBIR Phasel: Building an Evidentiary Case for Circulating GHBP as a Biomarker for Drug Associated Stunting of Growth	100	\$9,944	\$5,668	\$15,612
Brooks, Dr. Tracy	National Cancer Institute	Synthesis and Optimization of antibody: DNAi conjugates targeting the MYC G4	50	\$35,614	\$20,300	\$55,913
Brooks, Dr. Tracy	National Institute of General Medical Sciences	Exploiting the Hydrophobic Glycosyl Pocket of IgG1 for Imaging and Drug Delivery Applications	25	\$30,785	\$17,547	\$48,332
Brooks, Dr. Tracy	National Institute of General Medical Sciences	Legumain to the rescue: A new ADC linker strategy to address the limitations of cathepsin cleavage	50	\$13,032	\$4,218	\$17,250
Davis, Dr. Tony D	National Institute of General Medical Sciences	Interrogation of Microbial Natural Product mEthyltransferases	100	\$62,425	\$29,512	\$91,936
Edwards, Dr. Katie	Childrens Research Institute	Bridging pharmacodynamic biomarkers to clinical outcomes in pediatric inflammatory diseases (2020-2021)	100	\$1,764	\$1,005	\$2,769
Edwards, Dr. Katie	RADii Solutions	Thiaminase analysis in Asian Carp	100	\$2,399	\$600	\$2,999
Hathout, Dr. Yetrib	Vertex Pharmaceuticals Incorporated	Generation of Stable Isotope Labeled Dystrophin Through Culturing of Immortalized Human Muscle Cells	100	\$12,500	\$3,125	\$15,625



<u><i>Investigator</i></u>	<u><i>Sponsor Name</i></u>	<u><i>Award Title</i></u>	<u><i>% Credited to Investigator</i></u>	<u><i>Direct Costs Expended</i></u>	<u><i>F &amp; A Expended</i></u>	<u><i>Total Expended</i></u>
Hathout, Dr. Yetrib	Childrens Research Institute	Bridging Pharmacodynamic Biomarkers to Clinical Outcomes in Pediatric Inflammatory Diseases	100	\$56,540	\$31,679	\$88,220
Hathout, Dr. Yetrib	National Inst of Neurological Disorders & Stroke	R61/R33 Resubmission (Biomarker Signatures for Duchenne Muscular Dystrophy)	100	\$20,336	\$11,591	\$31,927
Hathout, Dr. Yetrib	ReveraGen Biopharma Incorporated	A biomarker and patient-reported outcomes study in Becker muscular dystrophy patients	100	\$4,380	\$1,096	\$5,476
Hathout, Dr. Yetrib	US Army Medical Research Acquisition Activity	Clinical Utility of Serum Protein Biomarkers in Very Young Duchenne Muscular Dystrophy Boys	100	\$5,029	\$0	\$5,029
Morales, Dr. Melissa	Myositis Association	Improving muscle weakness by blocking the Interferon signature with anti-viral proteins	50	\$1,763	\$141	\$1,904
Nagaraju, Dr. Kanneboyina	CURE JM Foundation	Testing and screening potential compounds for efficacy in a mouse model of myositis and the effect of Type 1 Interferon on muscle function and weakness in myositis	100	\$39,842	\$0	\$39,842
Nagaraju, Dr. Kanneboyina	DB Therapeutics Incorporated	Unrestricted Research: DB Therapeutics in the area of radiotherapeutic bandage	100	\$8,708	\$1,306	\$10,014
Nagaraju, Dr. Kanneboyina	Foundation to Eradicate Duchenne	Immune response to dystrophin after Etiperson treatment in Duchenne Muscular Dystrophy Children	100	\$10,751	\$1,075	\$11,826
Nagaraju, Dr. Kanneboyina	Myositis Association	Improving muscle weakness by blocking the Interferon signature with anti-viral proteins	50	\$1,763	\$141	\$1,904
Nagaraju, Dr. Kanneboyina	Parent Project for Muscular Dystrophy Research Inc	Effect of Immunomodulatory Treatments on Immune Response After Gene Correction in DMD	100	\$24,301	\$1,215	\$25,516
Nagaraju, Dr. Kanneboyina	Parent Project for Muscular Dystrophy Research Inc	Targeting the innate immune system to block acute inflammatory and chronic immune responses to transgene and AAV vector in DMD	100	\$91,727	\$0	\$91,727

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Tumey, Dr. L Nathan	National Cancer Institute	Synthesis and Optimization of antibody: DNAi conjugates targeting the MYC G4	50	\$35,614	\$20,300	\$55,913
Tumey, Dr. L Nathan	Synthis Therapeutics	Cell Lysates from Synthis	100	\$3,416	\$854	\$4,270
Tumey, Dr. L Nathan	National Institute of General Medical Sciences	Legumain to the rescue: A new ADC linker strategy to address the limitations of cathepsin cleavage	50	\$13,032	\$4,218	\$17,250
Tumey, Dr. L Nathan	National Institute of General Medical Sciences	Exploiting the Hydrophobic Glycosyl Pocket of IgG1 for Imaging and Drug Delivery Applications	50	\$61,570	\$35,095	\$96,665
Tumey, Dr. L Nathan	National Institute of Allergy & Infectious Disease	Cell-specific blockage of TLR activation: A new strategy for addressing inflammatory disorders	100	\$90,829	\$50,675	\$141,503
Tumey, Dr. L Nathan	National Institute of Allergy & Infectious Disease	"Molecular whack-a-mole": Targeting Transmembrane- TNFa for the Delivery of Anti-Inflammatory Drgus	100	\$32,351	\$18,440	\$50,791
Zhang, Dr. Tao	US Food and Drug Administration	To measure permeability of BCRP drug substrates and establish mechanistic IVIVE and PBPK model to predict milk drug transfer	100	\$2,000	\$1,140	\$3,140

**Department Total: \$933,350**

**020 Pharmacy Practice**

Eggleston, Dr. William	NYS Chapter of American College of Clinical Pharmacy	Evaluating the Impact of an at Home Medication Disposal System on Safe Medication Disposal	100	\$357	\$0	\$357
Kufel, Dr. Wesley	NYS Chapter of American College of Clinical Pharmacy	Impact of Vancomycin Plus Ceftaroline Combination Therapy for Persistent Methicillin-Resistant Staphylococcus Aureus Bacteremia	100	\$793	\$0	\$793
Kufel, Dr. Wesley	Merck Sharp and Dohme Corporation	A quasi-experimental study to evaluate the use of empiric antibiotic order sets for common infectious states	100	\$0	\$7,500	\$7,500

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Kufel, Dr. Wesley	Merck Sharp and Dohme Corporation	A quasi-experimental study to evaluate the use of empiric antibiotic order sets for common infectious states	100	\$17,737	\$5,321	\$23,058
Mogul, Dr. Amanda	NYS Council of Health-system Pharmacists	Identifying Patients Inappropriately Prescribed Aspirin for Primary Prevention in a Primary Care Clinic	100	\$1,701	\$0	\$1,701
<b>Department Total:</b>				<b>\$33,409</b>		

### **020 Philosophy**

Pensky, Dr. Maxim	Auschwitz Inst for the Prev of Genocide & Mass Atrocities	An Analysis of the Relation Between Speech Legitimizing Violence	50	\$500	\$25	\$525
<b>Department Total:</b>				<b>\$525</b>		

### **020 Physics**

Aynajian, Dr. Pegor	National Science Foundation	CAREER: Visualizing Emergent Electronic States Near Quantum Phase Transitions	100	\$66,359	\$36,178	\$102,537
Cotts, Dr. Eric	Universal Instruments Corporation	Electromigration Characterization of Low Temperature Solder Alloys	100	\$4,857	\$1,263	\$6,120
Cotts, Dr. Eric	Universal Instruments Corporation	Electromigration Characterization of Low Temperature Solder Alloys	100	\$20,587	\$5,353	\$25,939
Cotts, Dr. Eric	Universal Instruments Corporation	Solder Joint Reliability Failure Mechanisms Testing	100	\$318	\$83	\$401
Cotts, Dr. Eric	Universal Instruments Corporation	Electromigration Characterization of Low Temperature Solder Alloys	100	\$29,934	\$7,783	\$37,717
Kolmogorov, Dr. Alexey	National Science Foundation	Theory-Guided Discovery of Tin-Based Materials	100	\$33,732	\$18,959	\$52,691

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Kolmogorov, Dr. Alexey	National Science Foundation	EAGER: SUPER: Collaborative Research: Ab Initio Engineering of Doped-Covalent-Bond Superconductors	50	\$30,223	\$16,129	\$46,352
Lawler, Dr. Michael	National Science Foundation	Collaborative Research: Integrating Physics and Generative Machine Learning Models for Inverse Materials Design	100	\$66,060	\$30,452	\$96,512
Lawler, Dr. Michael	National Science Foundation	Collaborative Research: Machine Learning Methods for Multi-Disciplinary Multi-Scale Problems	100	\$46,547	\$25,995	\$72,541
Lee, Dr. Wei-Cheng	Georgia Institute of Technology	MURI17: Cross-disciplinary Electronic-ionic Research Enabling Biologically Realistic Autonomous Learning (CEREBRAL)	100	\$108,455	\$61,041	\$169,496
Lee, Dr. Wei-Cheng	National Science Foundation	EAGER: Collaborative Research: Exploring Physics Guided Machine Learning for Accelerating Sensing and Physical Sciences	100	\$13,742	\$7,296	\$21,038
Lee, Dr. Wei-Cheng	Georgia Institute of Technology	MURI - Cross-Disciplinary Electronic-Ionic Research Enabling Biologically Realistic Autonomous Learning (CEREBRAL)	100	\$5	\$3	\$7
Margine, Dr. Elena Roxana	National Science Foundation	S12-SSE: Expanding the Scope of Materials Modeling with Electron Phonon Wannier (EPW) Software	100	\$28,052	\$15,990	\$44,042
Margine, Dr. Elena Roxana	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$33,587	\$14,015	\$47,601
Margine, Dr. Elena Roxana	National Science Foundation	Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials	20	\$66,991	\$0	\$66,991
Margine, Dr. Elena Roxana	National Science Foundation	EAGER: SUPER: Collaborative Research: Ab Initio Engineering of Doped-Covalent-Bond Superconductors	50	\$30,223	\$16,129	\$46,352
Margine, Dr. Elena Roxana	National Science Foundation	Towards Ab Initio Prediction of Superconducting Properties	100	\$40,452	\$21,411	\$61,862

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Margine, Dr. Elena Roxana	University of Texas at Austin	An Interoperable Software Ecosystem for Many-Body Electronic Structure Calculations	100	\$7,544	\$4,300	\$11,845
Mativetsky, Dr. Jeffrey	National Science Foundation	CAREER: Charge Photogeneration and Transport in Organic Semiconductor Nanowires	100	\$45,715	\$23,025	\$68,740
Mativetsky, Dr. Jeffrey	National Science Foundation	REU Site: Renewable Energy Generation and Storage	100	\$82,955	\$19,173	\$102,128
Piper, Dr. Louis	US Department of Energy	Northeast Center for Chemical Energy Storage(NECCES)	5.76	\$2,616	\$1,487	\$4,103
Piper, Dr. Louis	Empire State Development Corp	HTMG: EFRC-NE Center of Energy Storage	12.5	\$2,285	\$430	\$2,715
Piper, Dr. Louis	Georgia Institute of Technology	MURI - Cross-Disciplinary Electronic-Ionic Research Enabling Biologically Realistic Autonomous Learning (CEREBRAL)	100	\$58	\$32	\$90
Piper, Dr. Louis	Georgia Institute of Technology	MURI17: Cross-disciplinary Electronic-ionic Research Enabling Biologically Realistic Autonomous Learning (CEREBRAL)	100	\$62,026	\$35,355	\$97,380
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	\$5,083	\$2,348	\$7,432
Piper, Dr. Louis	National Science Foundation	Rational Design of Oxide Cathode Coating for High Performance Li-ion Batteries	33	\$35,798	\$19,773	\$55,571
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	\$66,125	\$36,886	\$103,011
Shim, Dr. Bonggu	National Science Foundation	Study of Wavelength Dependence of Plasma Collision Dynamics and Ionization Mechanism in Laser Solid Matter Interactions	100	\$31,535	\$17,426	\$48,961

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Smeu, Dr. Manuel	National Science Foundation	Rational Design of Oxide Cathode Coating for High Performance Li-ion Batteries	33	\$35,798	\$19,773	\$55,571
Yao, Ms. Lan	National Institute of General Medical Sciences	Rational Design of pH-Low Insertion Peptides for Cargo Delivery	30	\$7,541	\$4,299	\$11,840

**Department Total: \$1,467,589**

**020 Political Science**

Karakoc, Dr. Ekrem	University of Calgary	International Business in the Middle East and North Africa MENA: danger zones or the land of opportunity	100	\$184	\$0	\$184
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**Department Total: \$184**

**020 Psychology**

Balderrama-Durbin, Dr. Christina	Wright State University	Lesbian, Gay, and Bisexual Couples in the Military: A post DADT Examination of Relationship Health, Perceived Community Acceptance and Mission Readiness Subaward No. 670766-1	100	\$8,601	\$4,902	\$13,503
Balderrama-Durbin, Dr. Christina	Wright State University	Up-Armoring At-Risk Military Couples Research Subcontract No. 670438-1	100	\$5,913	\$3,371	\$9,284
Balderrama-Durbin, Dr. Christina	Psi Chi The International Honor Society in Psychology	Emotion Regulation on the Relation of Co-occurring Posttraumatic Stress Symptoms and Alcohol Use on Relationship Distress in Trauma Exposed Individuals	100	\$1,353	\$0	\$1,353
Balderrama-Durbin, Dr. Christina	National Institute for Alcohol Abuse & Alcoholism	An Integrated Brief Alcohol and PTSD Intervention for Veterans in Primary Care	50	\$58,547	\$6,922	\$65,469
Bishop, Dr. Christopher	University of North Texas Health Science Center	Increasing Nigral Tyrosine Hydroxylase Expression as a Mechanism of Exercise-Mediated Recovery: Evaluation in Toxin and Rat Parkinson's Disease Genetic Models HS763-0000154195/HS763-0000154199	100	\$82,309	\$44,232	\$126,541

<u><i>Investigator</i></u>	<u><i>Sponsor Name</i></u>	<u><i>Award Title</i></u>	<u><i>% Credited to Investigator</i></u>	<u><i>Direct Costs Expended</i></u>	<u><i>F &amp; A Expended</i></u>	<u><i>Total Expended</i></u>
Bishop, Dr. Christopher	Melior Discovery Incorporated	Melior Discovery Materials Testing Agreement	100	\$4,963	\$1,241	\$6,204
Bishop, Dr. Christopher	Michael J Fox Foundation	MJFF Emerging Targets Committee	100	\$4,964	\$497	\$5,461
Bishop, Dr. Christopher	Michael J Fox Foundation	Chemogenetic and Pharmacological Targeting of the Raphe-Cortical Pathway to Reduce the Development and Expression of L-DOPA-induced Psychosis	100	\$84,625	\$8,796	\$93,421
Bishop, Dr. Christopher	National Inst of Neurological Disorders & Stroke	Interrogating maladaptive serotonin raphe-striatal plasticity in L-DOPA-induced dyskinesia	100	\$197,255	\$58,647	\$255,902
Bishop, Dr. Christopher	National Science Foundation	I-Corps: Repurposing Serotonergic Compounds for Improved Treatment of Parkinson's Disease	100	\$32,693	\$3,632	\$36,325
Bishop, Dr. Christopher	Howard Hughes Medical Institute	Howard Hughes Support - Freshman Research Immersion (FRI) Models	50	\$2,047	\$0	\$2,047
Cameron, Dr. Nicole M	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center 2021-2022	5	\$2,231	\$1,272	\$3,503
Coles, Dr. Meredith	SiMmersion	Simulated Clinician Assessment for Cognitive Behavioral Therapy Skills (2020-2021) R01MH112625	50	\$14,013	\$7,847	\$21,861
Coles, Dr. Meredith	Multiple Sponsors	Income from Services of Binghamton Anxiety Clinic	100	\$2,447	\$367	\$2,814
Deak, Dr. Terrence	National Institute for Alcohol Abuse & Alcoholism	Development and Neuroadaptations in Alcohol and Addiction	33.3	\$41,285	\$3,290	\$44,575
Deak, Dr. Terrence	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	100	\$29,457	\$16,790	\$46,247

<u><i>Investigator</i></u>	<u><i>Sponsor Name</i></u>	<u><i>Award Title</i></u>	<u><i>% Credited to Investigator</i></u>	<u><i>Direct Costs Expended</i></u>	<u><i>F &amp; A Expended</i></u>	<u><i>Total Expended</i></u>
Deak, Dr. Terrence	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	75	\$60,425	\$34,442	\$94,867
Deak, Dr. Terrence	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	50	\$56,960	\$21,779	\$78,739
Deak, Dr. Terrence	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center 2021-2022	90	\$33,231	\$18,941	\$52,172
Deak, Dr. Terrence	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center 2021-2022	75	\$116,308	\$66,094	\$182,402
Di Lorenzo, Dr. Patricia M	National Inst on Deafness & Other Comm Disorders	Temporal Coding in the Gustatory System of the Brain	100	\$106,942	\$54,921	\$161,863
Di Lorenzo, Dr. Patricia M	National Institute of General Medical Sciences	SUNY UPSTATE BRIDGES TO THE BACCALAUREATE PROGRAM (SUBBP)	50	\$113,716	\$8,879	\$122,595
Diaz, Dr. Marvin R	National Institute for Alcohol Abuse & Alcoholism	Impact of Prenatal Ethanol on BLA Synaptic Plasticity	50	\$48,947	\$27,766	\$76,713
Diaz, Dr. Marvin R	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center 2021-2022	25	\$38,769	\$22,031	\$60,801
Diaz, Dr. Marvin R	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center 2021-2022	30	\$45,905	\$26,166	\$72,070
Diaz, Dr. Marvin R	National Institute for Alcohol Abuse & Alcoholism	Prenatal Alcohol and Anxiety: An Ontogenetic Role for CRF	50	\$20,433	\$11,647	\$32,080
Diaz, Dr. Marvin R	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	30	\$19,387	\$11,051	\$30,438



<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Diaz, Dr. Marvin R	American Psychological Association	Moderate Prenatal Alcohol Exposure on Gestational Day 12 Sex-Dependently Impairs Social Behavior in Adult Offspring: The Role of the Basolateral Amygdala-to-Prelimbic Prefrontal Cortex Projection	100	\$434	\$0	\$434
Diaz, Dr. Marvin R	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	25	\$20,142	\$11,481	\$31,622
Gaspelin, Dr. Nicholas	National Science Foundation	CAREER: Understanding the Relationship of Covert and Overt Attention Using Concurrent EEG and Eye Tracking	100	\$46,234	\$26,085	\$72,319
Gerhardstein, Dr. Peter C	National Institute of Mental Health	Attentional Biases for Affective Cues in Infants of Depressed Mothers	10	\$5,736	\$3,269	\$9,005
Gibb, Dr. Brandon E	National Institute of Mental Health	Attentional Biases for Affective Cues in Infants of Depressed Mothers	90	\$51,620	\$29,423	\$81,043
Gillis Mattson, Dr. Jennifer M	NYS Education Department	CARD Albany and Regional Center(s) for Autism Spectrum Disorders	100	\$15,325	\$1,226	\$16,551
Gillis Mattson, Dr. Jennifer M	Multiple Sponsors	2021-2022 Children's Unit for Treatment and Evaluation	100	\$2,963,586	\$444,538	\$3,408,124
Gillis Mattson, Dr. Jennifer M	University of Massachusetts Chan Medical School	Helping Youth on the Path to Employment (HYPE) Creating Economic Self Sufficiency Year 2	50	\$35,111	\$9,129	\$44,240
Gillis Mattson, Dr. Jennifer M	University of Massachusetts Chan Medical School	Helping Youth on the Path to Employment (HYPE): Creating Economic Self-Sufficiency Subaward No. OSP28329-01	50	\$25,501	\$7,280	\$32,782
Gillis Mattson, Dr. Jennifer M	Order of the Eastern Star of New York	Autism Research	100	\$3,399	\$510	\$3,908
Gillis Mattson, Dr. Jennifer M	Multiple Sponsors	Children's Unit for Treatment and Evaluation 2020-2021	100	\$349,274	\$52,391	\$401,665

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Gillis Mattson, Dr. Jennifer M	Multiple Sponsors	2019-2020 Children's Unit for Treatment and Evaluation	100	(\$4,633)	(\$695)	(\$5,328)
Gillis Mattson, Dr. Jennifer M	Multiple Sponsors	School District Income for SEDCAR/IDEA Funding	100	\$20,720	\$1,658	\$22,377
Gillis Mattson, Dr. Jennifer M	Multiple Sponsors	Children's Unit Special Programs/ Institute for Child Development	100	\$10,744	\$1,612	\$12,355
Gillis Mattson, Dr. Jennifer M	Multiple Sponsors	Support of the ICD Infrastructure	100	\$5,153	\$773	\$5,926
Gillis Mattson, Dr. Jennifer M	NYS Education Department	CARD Albany and Regional Center(s) for Autism Spectrum Disorders 21-22	100	\$20,553	\$1,644	\$22,198
Harding, Dr. Thomas	ARK Psychology LLC	Clinical Placement Agreement Between Ark Psychology PLLC and the Research Foundation for SUNY	100	\$19,810	\$0	\$19,810
Harding, Dr. Thomas	United Health Services Hospitals Incorporated	Clinical Placement Agreement Between United Health Services Hospitals Inc. and the Research Foundation for SUNY	100	\$23,000	\$0	\$23,000
Jentsch, Dr. James David	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center 2021-2022	100	\$33,305	\$14,250	\$47,555
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 (2021-2022)	100	\$119,704	\$68,231	\$187,935
Jentsch, Dr. James David	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center 2021-2022	70	\$107,111	\$61,053	\$168,164
Jentsch, Dr. James David	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center 2021-2022	5	\$1,846	\$1,052	\$2,898

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Jentsch, Dr. James David	National Institute for Alcohol Abuse & Alcoholism	Development and Neuroadaptations in Alcohol and Addiction	100	\$121,651	\$8,273	\$129,925
Jentsch, Dr. James David	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	100	\$30,781	\$0	\$30,781
Jentsch, Dr. James David	National Institute for Alcohol Abuse & Alcoholism	Development and Neuroadaptations in Alcohol and Addiction	33.4	\$41,409	\$3,300	\$44,709
Jentsch, Dr. James David	Jackson Laboratory	2020-2021 Center for Systems Neurogenetics of Addiction Subaward 210247-0421-06	100	\$3,160	\$1,770	\$4,930
Jentsch, Dr. James David	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	70	\$45,237	\$25,785	\$71,022
Karkhanis, Dr. Anushree N	National Institute for Alcohol Abuse & Alcoholism	Mechanisms of rostrocaudal differences in accumbal kappa opioid receptor effects on ethonal drinking	100	\$159,009	\$72,059	\$231,068
Karkhanis, Dr. Anushree N	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center 2021-2022	100	\$19,177	\$10,931	\$30,107
Karkhanis, Dr. Anushree N	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	100	\$14,111	\$8,043	\$22,155
Karkhanis, Dr. Anushree N	National Institute for Alcohol Abuse & Alcoholism	Impact on early life stress on accumbal kappa opioid signaling and ethonal intake	100	\$74,317	\$5,945	\$80,262
Lim, Dr. Sung-Joo	American Speech Language Hearing Foundation	Neural System for Attentional Control in Speech Processing	100	\$25,000	\$0	\$25,000
Loney, Dr. Gregory	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	100	\$0	\$12,432	\$12,432

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Loney, Dr. Gregory	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center 2021-2022	100	\$0	\$14,250	\$14,250
Mastroleo, Dr. Nadine	SiMmersion	Simulated Clinician Assessment for Cognitive Behavioral Therapy Skills (2020-2021) R01MH112625	50	\$14,013	\$7,847	\$21,861
Mastroleo, Dr. Nadine	Brown University	Enhancing the Efficacy and Duration of a Brief Alcohol Intervention Using Self-Affirmation	100	\$25,747	\$14,676	\$40,423
Mastroleo, Dr. Nadine	Brown University	Behavioral Science and Biostatistics Resource Code for Alcohol-HIV Research Federal Award 5U24AA022003-06	100	\$6,177	\$3,397	\$9,574
Mastroleo, Dr. Nadine	National Institute for Alcohol Abuse & Alcoholism	An Integrated Brief Alcohol and PTSD Intervention for Veterans in Primary Care	50	\$58,547	\$6,922	\$65,469
Romanczyk, Dr. Raymond	Multiple Sponsors	Children's Unit for Treatment and Evaluation 2016-2017	100	(\$11,718)	(\$1,758)	(\$13,475)
Savage, Dr. Lisa M	National Institute for Alcohol Abuse & Alcoholism	Development and Neuroadaptations in Alcohol and Addiction	33.3	\$41,285	\$3,290	\$44,575
Savage, Dr. Lisa M	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	100	\$75,421	\$42,990	\$118,410
Savage, Dr. Lisa M	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	50	\$56,960	\$21,779	\$78,739
Savage, Dr. Lisa M	National Institute for Alcohol Abuse & Alcoholism	7/8 NADIA U01 Recovery of Adolescent Alcohol Disruption of Basal Forebrain-Cortical Projection Circuits	100	\$84,474	\$45,015	\$129,489
Savage, Dr. Lisa M	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center 2021-2022	5	\$1,846	\$1,052	\$2,898

<u><i>Investigator</i></u>	<u><i>Sponsor Name</i></u>	<u><i>Award Title</i></u>	<u><i>% Credited to Investigator</i></u>	<u><i>Direct Costs Expended</i></u>	<u><i>F &amp; A Expended</i></u>	<u><i>Total Expended</i></u>
Savage, Dr. Lisa M	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center 2021-2022	100	\$157,037	\$89,511	\$246,548
Savage, Dr. Lisa M	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center 2021-2022	5	\$2,231	\$1,272	\$3,503
Savage, Dr. Lisa M	National Institute for Alcohol Abuse & Alcoholism	7/8 NADIA U01 Recovery of Adolescent Alcohol Disruption of Basal Forebrain-Cortical Projection Circuits	100	\$118,180	\$67,363	\$185,543
Savage, Dr. Lisa M	National Institute of General Medical Sciences	SUNY UPSTATE BRIDGES TO THE BACCALAUREATE PROGRAM (SUBBP)	50	\$113,716	\$8,879	\$122,595
Varlinskaia, Dr. Elena I	National Institute for Alcohol Abuse & Alcoholism	Impact of Prenatal Ethanol on BLA Synaptic Plasticity	50	\$48,947	\$27,766	\$76,713
Varlinskaia, Dr. Elena I	National Institute for Alcohol Abuse & Alcoholism	2/8 NADIA U01 Adolescent Alcohol Exposure: Neural Contributors to Sex- and Exposure Timing-Specific Anxiety	50	\$91,587	\$50,996	\$142,583
Varlinskaia, Dr. Elena I	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center 2021-2022	5	\$2,231	\$1,272	\$3,503
Varlinskaia, Dr. Elena I	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center 2021-2022	25	\$36,260	\$19,997	\$56,256
Varlinskaia, Dr. Elena I	National Institute for Alcohol Abuse & Alcoholism	Prenatal Alcohol and Anxiety: An Ontogenetic Role for CRF	50	\$20,433	\$11,647	\$32,080
Varlinskaia, Dr. Elena I	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	50	\$19,380	\$11,046	\$30,426
Varlinskaia, Dr. Elena I	National Institute for Alcohol Abuse & Alcoholism	2/8 NADIA U01 Adolescent Alcohol Exposure: Neural Contributors to Sex- and Exposure Timing-Specific Anxiety	50	\$58,252	\$31,596	\$89,849

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Varodayan, Dr. Florence Prabha	National Institute for Alcohol Abuse & Alcoholism	Alcohol-induced neuroadaptation of prefrontal cortical projections	100	\$100,261	\$47,013	\$147,274
Werner, Dr. David F.	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center 2021-2022	75	\$108,779	\$59,990	\$168,769
Werner, Dr. David F.	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	50	\$19,380	\$11,046	\$30,426
Werner, Dr. David F.	National Institute for Alcohol Abuse & Alcoholism	2/8 NADIA U01 Adolescent Alcohol Exposure: Neural Contributors to Sex- and Exposure Timing-Specific Anxiety	50	\$91,587	\$50,996	\$142,583
Werner, Dr. David F.	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center 2021-2022	85	\$37,928	\$21,619	\$59,546
Werner, Dr. David F.	National Institute for Alcohol Abuse & Alcoholism	2/8 NADIA U01 Adolescent Alcohol Exposure: Neural Contributors to Sex- and Exposure Timing-Specific Anxiety	50	\$58,252	\$31,596	\$89,849
Werner, Dr. David F.	National Institute for Alcohol Abuse & Alcoholism	Developmental Exposure Alcohol Research Center	100	\$42,211	\$24,060	\$66,272
Werner, Dr. David F.	National Institute for Alcohol Abuse & Alcoholism	Role of Neural Activity and Perineuronal Nets in Adolescent Intermittent Ethanol- Induced Social Anxiety	100	\$26,353	\$0	\$26,353

**Department Total: \$9,223,108**

**020 Public Archaeology Facility**

Miroff, Dr. Laurie E	LaBella Associates	Phase 1A Archaeological Assessments: Cayuta Van Den Hurk Solar Project, Cicero Rhyndland Solar Project, Scotch Ridge Solar Project, Westmoreland Utility Scale Solar Project: LaBella Project Nos. 2212596, 2212598, 2212602, 2212603	100	\$9,375	\$1,406	\$10,781
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<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Miroff, Dr. Laurie E	National Park Service	Historical and Archaeological Survey of the Battlefield of Fort Bull, NY	100	\$3,092	\$0	\$3,092
Miroff, Dr. Laurie E	Multiple Sponsors	Miscellaneous Income from PAF Activities	100	\$5	\$1	\$6
Miroff, Dr. Laurie E	Mid-State Communications	CRS (FCC 620) BCS Tower Project, Town of Orange, Schuyler County, NY	100	\$1,918	\$288	\$2,205
Miroff, Dr. Laurie E	Lamont Engineers	Shokan WMP Project, Phase 1B Archaeological Survey (estimate of 1400-1550 STPs), Town of Olive, Ulster County, NY	100	\$140	\$21	\$160
Miroff, Dr. Laurie E	McFarland and Johnson Engineers Incorporated	Task 06 - Short Environmental Assessment for Runway 3-21 Obstruction Removal and Acquisition	100	\$1,555	\$233	\$1,789
Miroff, Dr. Laurie E	Lamont Engineers	Shokan WMP Project, Phase 1A Archaeological Assessment, Town of Olive, Ulster County NY	100	\$2,478	\$372	\$2,850
Miroff, Dr. Laurie E	LaBella Associates	LaBella Project 2102536: Phase 1 Initial Historic Resource and Phase 1A Archaeological Assessments within the Town of Dekalb, St. Lawrence County, New York and the Town of Lyme, Jefferson County, New York.	100	\$4,004	\$601	\$4,604
Miroff, Dr. Laurie E	National Park Service	Urban Archeology Corps	100	\$4,741	\$830	\$5,570
Miroff, Dr. Laurie E	LaBella Associates	Phase 1A Archaeological Assessment/ Phase 1A/1B Archaeological Survey for the Proposed NY CDG Oneida 2 Solar Project in the Town of Rome, Oneida County, NY	100	\$13,473	\$2,021	\$15,493
Miroff, Dr. Laurie E	LaBella Associates	York Run Solar Project, Phase 1A Archaeological Assessmen	100	\$2,594	\$389	\$2,983

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Miroff, Dr. Laurie E	LaBella Associates	Phase 1A Archaeological Assessment within the Town of Wawayanda, Orange County, NY	100	\$3,364	\$505	\$3,868
Miroff, Dr. Laurie E	LaBella Associates	Phase I Initial Historic Resource and Phase 1A Archaeological Assessment within the Town of Rutland, Jefferson County, NY	100	\$2,856	\$428	\$3,284
Miroff, Dr. Laurie E	Todd Post	Combined Phase 1A/ 1B Archaeological Survey, Fleming Buck Point Road Development Project, Town of Fleming, Cayuga County, NY	100	\$3,633	\$545	\$4,177
Miroff, Dr. Laurie E	Lamont Engineers	Phase 3 Data Recovery of the Lords/ Wells Site for the Sidney Water System Improvement Project, Village of Sidney, Delaware County, NY	100	\$12,362	\$1,854	\$14,216
Miroff, Dr. Laurie E	National Science Foundation	Engaging Rural Youth in Multidisciplinary Inquiry through Archaeology	25	\$25,286	\$6,256	\$31,541
Miroff, Dr. Laurie E	NYS Education Department	Cultural Resources Program Year 5 of 5	100	\$296,480	\$44,472	\$340,952
Miroff, Dr. Laurie E	NYS Education Department	Cultural Resource Survey Program Consultant Contract	100	\$45,206	\$6,781	\$51,987
Miroff, Dr. Laurie E	Onondaga County Soil and Water Conservation Dist	Archeological Survey: Shotwell Brook Streambank, Stabliztion Project, Phase 1 Archaeological Survey, Town of Skaneateles, Onondaga County, NY	100	\$2,027	\$304	\$2,331
Miroff, Dr. Laurie E	Parsons Engineering Science Incorporated	Corning 3510 West Road	100	\$1,481	\$222	\$1,703
Miroff, Dr. Laurie E	Parsons Engineering Science Incorporated	Onondaga Lake, Hudson Farms Ecological Enhancements	100	\$1,802	\$270	\$2,072
Miroff, Dr. Laurie E	Sage Engineering Associates	TOA-412 KSO Cultural Resource Historic Preservation Mitigation Project	100	\$9,664	\$1,450	\$11,114



<u><i>Investigator</i></u>	<u><i>Sponsor Name</i></u>	<u><i>Award Title</i></u>	<u><i>% Credited to Investigator</i></u>	<u><i>Direct Costs Expended</i></u>	<u><i>F &amp; A Expended</i></u>	<u><i>Total Expended</i></u>
Miroff, Dr. Laurie E	Seaboard Solar	Phase 1A/1B Archaeological Survey, Frank Long Road Solar Project, Town of Pompey, Onondaga County, NY	100	\$24,571	\$3,686	\$28,257
Miroff, Dr. Laurie E	Shumaker Consulting Engineering&Land Surveying PC	Ithaca Farmer's Market Project, Phase 1A Archaeological Assessment and Phase 1B Archaeological Survey, City of Ithaca, Tompkins County, NY	100	\$299	\$45	\$344
Miroff, Dr. Laurie E	Stantec Architecture	Project #2007130123- Site DBU9- Cohoes Located at 1 Mustang Drive, Cohoes, NY 12047	100	\$508	\$76	\$585
Miroff, Dr. Laurie E	Stantec Architecture	Site DBU9- Cohoes Phase 1B Archaeological Survey	100	\$4,564	\$685	\$5,249
Miroff, Dr. Laurie E	Stantec Consulting Services Inc	West Creek under Noble Street	100	\$600	\$90	\$689
Miroff, Dr. Laurie E	Yeshiva Mercaz Hatorah	Phase 1A/1B Archaeological Survey, Yeshiva Mercaz Hatorah- Ramapo Project, Town of Ramapo, Rockland County, NY	100	\$923	\$138	\$1,061
Miroff, Dr. Laurie E	LaBella Associates	Historical Resource Survey/ Phase 1 Architectural Survey for the Enfiled Solar Development with the Town of Enfield, Tompkins County, NY	100	\$4,201	\$630	\$4,831
Miroff, Dr. Laurie E	Stantec Consulting Services Inc	County Road 35 (Slab City) Over Trout Brook Municipal Contract D040142	100	\$568	\$85	\$653
Miroff, Dr. Laurie E	City of Binghamton	Monitoring, Hawley Street Traffic Light Project, City of Binghamton	100	\$867	\$130	\$997
Miroff, Dr. Laurie E	Borough of Denver	Phase 1 Archaeological Survey, Denver Memorial Park Annex- Cocalico Creek Greenway Development Project, Denver Borough, Lancaster County, PA #214	100	\$10,128	\$1,519	\$11,647

<u><i>Investigator</i></u>	<u><i>Sponsor Name</i></u>	<u><i>Award Title</i></u>	<u><i>% Credited to Investigator</i></u>	<u><i>Direct Costs Expended</i></u>	<u><i>F &amp; A Expended</i></u>	<u><i>Total Expended</i></u>
Miroff, Dr. Laurie E	Brolex Properties Limited Liability Corporation	Crego Subdivision Project, Phase 1 Archaeological Survey/ Phase 2 Site Examination, Town of Van Buren, Onondaga County, NY	100	\$86,694	\$13,004	\$99,698
Miroff, Dr. Laurie E	C&S Companies	Alfred State College, Phase 1B Archeological Assessment SUCF Project 221013	100	\$546	\$82	\$628
Miroff, Dr. Laurie E	C&S Companies	Cultural Resource Screening (FCC 620), 35 Quarry Road Tower Project, Town of Saugerties, Ulster County, NY	100	\$1,259	\$189	\$1,447
Miroff, Dr. Laurie E	C&S Companies	CRS (FCC 620), Yates County 911 Cell Tower Project- Italy, Town of Italy, Yates County, NY	100	\$2,103	\$316	\$2,419
Miroff, Dr. Laurie E	C&S Companies	CRS (FCC 620), Yates County 911 Celltower Project, Town of Dundee, Yates County, NY	100	\$1,974	\$296	\$2,270
Miroff, Dr. Laurie E	C&S Companies	CRS (FCC 620), Yates County 911 Cell Tower Project- Benton, Town of Benton, Yates County, NY	100	\$1,875	\$281	\$2,157
Miroff, Dr. Laurie E	C&S Companies	Dix Solar Project, Phase 1 Architectural Survey, Town of Dix, NY	100	\$2,650	\$397	\$3,047
Miroff, Dr. Laurie E	C&S Companies	Phase 1 Archaeological Survey- Architectural Survey, Avon CSG 1 LLC Project, Livingston County, NY	100	\$3,302	\$495	\$3,797
Miroff, Dr. Laurie E	C&S Companies	Phase 1 Archaeological Survey- All Subsurface Testing (STPS), Avon CSG 1 LLC Project, Livingston County, NY	100	\$13,561	\$2,034	\$15,595
Miroff, Dr. Laurie E	C&S Companies	Cultural Resources Screening (FCC 620), Yates County 911 Celltower Project, Town of Jerusalem, Yates County, NY	100	\$1,371	\$206	\$1,577
Miroff, Dr. Laurie E	C&S Companies	Cultural Resource Screening (FCC 620), Sullivan County Communication Towers Project, Sullivan County, NY	100	\$3,305	\$496	\$3,801

<u><i>Investigator</i></u>	<u><i>Sponsor Name</i></u>	<u><i>Award Title</i></u>	<u><i>% Credited to Investigator</i></u>	<u><i>Direct Costs Expended</i></u>	<u><i>F &amp; A Expended</i></u>	<u><i>Total Expended</i></u>
Miroff, Dr. Laurie E	C&S Companies	CRS (FCC620) Livingston EOC Building and Monopole Project, Town of Mount Morris, Livingston County, NY	100	\$1,812	\$272	\$2,084
Miroff, Dr. Laurie E	LaBella Associates	Rutland Solar Project, Phase 1A Archaeological Assessment with Walkover, Jefferson County, NY	100	\$539	\$81	\$620
Miroff, Dr. Laurie E	F.S. Lopke Contracting Incorporated	Ayers Brink Project - Phase 3 Data Recovery, Ayers 1 Site, Clusters G to L	100	\$782	\$117	\$899
Miroff, Dr. Laurie E	LaBella Associates	Langdon Substation Contingency Parcel Project, Phase 2 Site Examinations of Locus 1-5 of the Terrace Drive Site, Town of Conklin, Broome County, NY	100	\$11,561	\$1,734	\$13,295
Miroff, Dr. Laurie E	Hudson Crossing Park Inc.	Battlefield Resource Survey of the Saratoga (Siege) Battlefield, ABPP Grant P18AP00520, Towns of Easton, Saratoga, and Northumberland, NY	100	\$8,746	\$1,312	\$10,058
Miroff, Dr. Laurie E	Hanover Engineering Associates	Phase 1 Archaeological Survey, Peffer-Strong Spur 485 Project, Sullivan Township, Tioga County, PA- Project NFG-1003-06	100	\$1,494	\$224	\$1,718
Miroff, Dr. Laurie E	Fagan Engineers	CNGC Line 15, Rathbone-Cameron Mills Gas Line Replacement Project, Phase 1B Archaeological Assessment, Town of Rathbone, Steuben County, NY	100	\$7,520	\$1,128	\$8,648
Miroff, Dr. Laurie E	Fagan Engineers	CNGC Line 15, Rathbone-Cameron Mills Gas Line Replacement Project, Phase 1A Archaeological Assessment, Town of Rathbone, Steuben County, NY	100	\$2,042	\$306	\$2,349
Miroff, Dr. Laurie E	Capital Growth Buchalter	Combined Phase 1A Assessment/ Phase 1B Survey (Single Report), Ellisburg Dollar General Project, Village of Ellisburg, Jefferson County, NY	100	\$2,629	\$394	\$3,024
Miroff, Dr. Laurie E	F.S. Lopke Contracting Incorporated	Phase 3 Data Recovery of Clusters A, B, D, & E of Ayers 1 Site, Town of Nichols, Tioga County NY	100	\$9,865	\$1,480	\$11,345

<u><i>Investigator</i></u>	<u><i>Sponsor Name</i></u>	<u><i>Award Title</i></u>	<u><i>% Credited to Investigator</i></u>	<u><i>Direct Costs Expended</i></u>	<u><i>F &amp; A Expended</i></u>	<u><i>Total Expended</i></u>
Miroff, Dr. Laurie E	Capital Growth Buchalter	Phase 1A/1B Archaeological Survey, Newport Dollar General Project, Village of Newport, Herkimer County, NY	100	\$3,556	\$533	\$4,090
Miroff, Dr. Laurie E	McFarland and Johnson Engineers Incorporated	Phase 1A/1B Archaeological Assessment and Archaeological Survey, Piseco Airport Project, Town of Arietta, Hamilton County, NY	100	\$3,922	\$588	\$4,511
Miroff, Dr. Laurie E	Environmental Design & Research	Archaeological Fieldwork (4 weeks of fieldwork, administrative costs) Projects in Tompkins County, Allegany County, and Orleans County, NY	100	\$15,960	\$2,394	\$18,354
Miroff, Dr. Laurie E	Environmental Design & Research	Phase 1B Survey Fieldwork (Weeks of June 14-18 & June 21-25), South Ripley Solar Project, Chautauqua, NY	100	\$8,687	\$1,303	\$9,990
Miroff, Dr. Laurie E	Environmental Design & Research	Phase 1B Survey Fieldwork (Week of June 7-11, 2021) South Ripley Solar Project, Chautauqua County, NY	100	\$5,409	\$811	\$6,221
Miroff, Dr. Laurie E	Delta Engineers	7351 Cider Street Project, Phase 1A Archaeological Assessment, Town of Westmoreland, Oneida County, NY	100	\$577	\$87	\$664
Miroff, Dr. Laurie E	Bethel Woods Center for the Arts	Mapping Proposal Woodstock Bindy Bazaar Project, Bethel, Sullivan County, NY	100	\$817	\$123	\$940
Miroff, Dr. Laurie E	F.S. Lopke Contracting Incorporated	Phase 3 Data Recovery of Clusters 1-7 of the Ayers 2 Site, Town of Nichols, Tioga County, NY	100	\$144,379	\$21,657	\$166,036
O'Donovan, Dr. Maria	Multiple Sponsors	Journal for the Council of Northeast Historical Archaeology	100	\$4,115	\$617	\$4,732
Versaggi, Dr. Nina M	National Park Service	Archaeological Overview & Assessment if the St. Gabriel's and Waggon seller Farm Parcels, Valley Forge National Historical Park, King of Prussia, PA	100	\$7,256	\$1,233	\$8,489
Versaggi, Dr. Nina M	National Park Service	Oneida Castle Battlefield Archaeological Survey	100	\$18,402	\$2,760	\$21,163

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Versaggi, Dr. Nina M	National Science Foundation	Engaging Rural Youth in Multidisciplinary Inquiry through Archaeology	25	\$25,286	\$6,256	\$31,541
<b>Department Total:</b>				<b>\$1,038,298</b>		
<b>020 Research Sponsored Prog</b>						
Dublin, Dr. Thomas L	Multiple Sponsors	Unrestricted research activities	100	\$1,644	\$247	\$1,890
<b>Department Total:</b>				<b>\$1,890</b>		
<b>020 Research VP</b>						
Czarnecki, Dr. Steven V.	National Science Foundation	PFI-TT: Next Generation High Energy Storage, Light Weight Capacitors	15	\$6,058	\$1,575	\$7,633
Czarnecki, Dr. Steven V.	National Science Foundation	PFI-TT: Next Generation High Energy Storage, Light Weight Capacitors	15	\$7,118	\$3,893	\$11,011
Czarnecki, Dr. Steven V.	National Science Foundation	PFI-TT: Next Generation High Energy Storage, Light Weight Capacitors	15	\$4,172	\$463	\$4,635
Park, Dr. Seungbae	Multiple Sponsors	Symposium and Other IEEC Activities	100	\$5,991	\$1,498	\$7,489
Rangarajan, Dr. Srikanth	SUNY Applied Materials Research Institute	Design, Develop and Demonstrate a True 3D Packaging	25	\$1,648	\$939	\$2,587
Rangarajan, Dr. Srikanth	Applied Materials	Design, Develop and Demonstrate a True 3D Packaging	25	\$3,472	\$1,979	\$5,452
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Advances in Integration and Packaging of Electronic Systems	100	\$5,328	\$799	\$6,126

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Turner, Mr. James	National Science Foundation	PFI-TT: Next Generation High Energy Storage, Light Weight Capacitors	15	\$6,058	\$1,575	\$7,633
Turner, Mr. James N	National Science Foundation	PFI-TT: Next Generation High Energy Storage, Light Weight Capacitors	15	\$4,172	\$463	\$4,635
Turner, Mr. James N	Flex Tech Alliance	Improved ECG Monitor with Capacitive Electrodes	20	(\$60)	(\$34)	(\$95)
Turner, Mr. James N	National Science Foundation	PFI-TT: Next Generation High Energy Storage, Light Weight Capacitors	15	\$7,118	\$3,893	\$11,011

**Department Total: \$68,119**

***020 School Of Management***

Agnihotri, Dr. Saligrama	Adobe Systems Incorporated	Unrestricted Research Support	100	\$10,140	\$1,521	\$11,662
Dhillon, Dr. Upinder	Multiple Sponsors	Transformational Leadership Program	100	\$44,425	\$6,664	\$51,089
Dionne, Ms. Shelley	National Science Foundation	Diversity, Network Structure, and the Effectiveness of Collective Design and Innovation	33.33	\$141	\$0	\$141
Dionne, Ms. Shelley	Waseda University	Model Development and Data Analysis for Business Idea Generation Process on Entrepreneurship Education 2022	50	\$5,081	\$2,896	\$7,978
Dionne, Ms. Shelley	Waseda University	Model Development and Data Analysis for Business Idea Generation Process on Entrepreneurship Education	50	\$1,962	\$1,118	\$3,080
Tsai, Dr. Chou-Yu	Waseda University	Model Development and Data Analysis for Business Idea Generation Process on Entrepreneurship Education 2022	50	\$5,081	\$2,896	\$7,978

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Tsai, Dr. Chou-Yu	Waseda University	Model Development and Data Analysis for Business Idea Generation Process on Entrepreneurship Education	50	\$1,962	\$1,118	\$3,080
Yammarino, Dr. Francis J	Multiple Sponsors	Miscellaneous Income - Fran Yammarino	100	\$2,992	\$449	\$3,441
Yammarino, Dr. Francis J	National Science Foundation	Diversity, Network Structure, and the Effectiveness of Collective Design and Innovation	33.33	\$141	\$0	\$141
<b>Department Total:</b>				<b>\$88,588</b>		

**020 School of Nursing Academic**

Bryant, Dr. Sharon A	NYS Education Department	STEP 2021-2022	50	\$70,515	\$5,350	\$75,865
Bryant, Dr. Sharon A	NYS Education Department	Collegiate Science Technology Entry Program	100	\$110,592	\$8,847	\$119,440
Bryant, Dr. Sharon A	US Department of Education	Binghamton University Upward Bound Math and Science 2017-2022	100	\$215,237	\$17,219	\$232,456
Bryant, Dr. Sharon A	US Department of Education	Binghamton University Upward Bound Math and Science 2017-2022	100	\$4,330	\$0	\$4,330
Bryant, Dr. Sharon A	NYS Education Department	Science Technology Entry Program 2020-2021	50	\$7,190	\$145	\$7,335
Fronczek, Ms. Ann	Health Resources and Services Admin	Advancing Nursing Education Workforce	50	\$143,957	\$11,517	\$155,474
Fronczek, Ms. Ann	Health Resources and Services Admin	Advancing Nursing Education Workforce	50	\$222,903	\$0	\$222,903

<u><i>Investigator</i></u>	<u><i>Sponsor Name</i></u>	<u><i>Award Title</i></u>	<u><i>% Credited to Investigator</i></u>	<u><i>Direct Costs Expended</i></u>	<u><i>F &amp; A Expended</i></u>	<u><i>Total Expended</i></u>
Fronczek, Ms. Ann	Health Resources and Services Admin	Advancing Nursing Education Workforce	50	\$11,981	\$958	\$12,940
Fronczek, Ms. Ann	Health Resources and Services Admin	Advancing Nursing Education Workforce	50	\$15,292	\$0	\$15,292
Gabel, Dr. Rodney	Family Enrichment Network	Clinical Placement Agreement between Family Enrichment Network and The Research Foundation For The State University of New York, Binghamton University	100	\$87,046	\$22,632	\$109,678
Marzell, Dr. Miesha	REACH Project	Rural Communities Opioid Response Program-Implementation (RCORP-1)	50	\$1,193	\$0	\$1,193
Palmer, Ms. Deborah	International Home Care Nurses Organization	Bringing Nursing Home	25	\$266	\$0	\$266
Reuther, Ms. Patricia	International Home Care Nurses Organization	Bringing Nursing Home	25	\$266	\$0	\$266
Rouhana, Dr. Nicole A.	Health Resources and Services Admin	Advancing Nursing Education Workforce	50	\$143,957	\$11,517	\$155,474
Rouhana, Dr. Nicole A.	Health Resources and Services Admin	Advancing Nursing Education Workforce	50	\$222,903	\$0	\$222,903
Rouhana, Dr. Nicole A.	Health Resources and Services Admin	Advancing Nursing Education Workforce	50	\$15,292	\$0	\$15,292
Rouhana, Dr. Nicole A.	Health Resources and Services Admin	Advancing Nursing Education Workforce	50	\$11,981	\$958	\$12,940
Rouhana, Dr. Nicole A.	Mary Imogene Bassett Hospital	Advanced Nursing Education- Nurse Practitioner Residence Program (ANE-NPR Program)	100	\$39,211	\$3,921	\$43,132



<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Sprague, Lisa M	International Home Care Nurses Organization	Bringing Nursing Home	25	\$266	\$0	\$266
Sutherland, Ms. Jodi L	International Home Care Nurses Organization	Bringing Nursing Home	25	\$266	\$0	\$266
Sutherland, Ms. Melissa A	Agency for Healthcare Research and Quality	Multi-Level Influences of Violence Screening in College Health Centers	60	\$20,277	\$5,949	\$26,226

**Department Total: \$1,433,936**

**020 School of Nursing Deans Office**

Ortiz, Dr. Mario	REACH Project	Rural Communities Opioid Response Program-Implementation (RCORP-1)	50	\$1,193	\$0	\$1,193
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**Department Total: \$1,193**

**020 Small Business Dev Center**

Goldstein, Mr. Brian C	Small Business Administration	SBDC 2020/2021	100	\$73,315	\$8,798	\$82,112
Layman, Ms. Rochelle	Alternatives Venture Fund	SEED Program for Small Business Development in Tompkins County	100	\$18,893	\$2,267	\$21,160
Layman, Ms. Rochelle	Small Business Administration	Small Business Development Centers Cares Act	100	\$254,584	\$30,550	\$285,134
Layman, Ms. Rochelle	Multiple Sponsors	Restricted Program Income - SBDC	100	\$20	\$360	\$380
Layman, Ms. Rochelle	Empire State Development Corp	ESD Covid-19 Disaster Relief Technical Assistance Grants	100	\$8,205	\$820	\$9,025

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Layman, Ms. Rochelle	Multiple Sponsors	Program Income Account for SBDC Training Activities Associated with federal SBA funding	100	\$5,177	\$180	\$5,357
Layman, Ms. Rochelle	Multiple Sponsors	Miscellaneous Income- Small Business Development Center Activities	100	\$196	\$29	\$226
Mooney, Ms. Tammy D	Empire State Development Corp	COVID-19 Pandemic Small Business Recovery Grant Program ? Technical Assistance Grants	100	\$61,948	\$6,195	\$68,143
Mooney, Ms. Tammy D	Small Business Administration	SBDC 21-22	100	\$215,218	\$25,826	\$241,044

**Department Total: \$712,581**

**020 Sociology**

Roth, Dr. Benita	Social Science Research Council	Fighting the Opioid Epidemic in Upstate New York: marginalized voices, activism, and community	100	\$9,104	\$0	\$9,104
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**Department Total: \$9,104**

**020 Student Affairs V P**

Givre, Dr. Sophia J.	US Department of Education	Binghamton University Upward Bound Rural Program 2017-2022	100	\$14,243	\$0	\$14,243
Givre, Dr. Sophia J.	US Department of Education	2018-2022 Binghamton University Upward Bound Program	100	\$10,866	\$0	\$10,866
Givre, Dr. Sophia J.	US Department of Education	2018-2022 Binghamton University Upward Bound Program	100	\$28,049	\$0	\$28,049
Givre, Dr. Sophia J.	US Department of Education	2018-2022 Binghamton University Upward Bound Program	100	(\$180)	\$0	(\$180)

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Givre, Dr. Sophia J.	US Department of Education	Binghamton University Upward Bound Rural Program 2017-2022	100	\$5,392	\$0	\$5,392
Givre, Dr. Sophia J.	US Department of Education	Binghamton University Upward Bound Rural Program 2017-2022	100	\$240,834	\$19,012	\$259,846
Givre, Dr. Sophia J.	US Department of Education	2018-2022 Binghamton University Upward Bound Program	100	\$371,950	\$29,161	\$401,111
Rebello, Mr. Stephen Michael	US Department of Education	2016-2021 Student Support Services Program	100	\$85,552	\$6,844	\$92,397
Rebello, Mr. Stephen Michael	US Department of Education	Student Support Services Program at Binghamton University 2021-2026	100	\$7,815	\$0	\$7,815
Rebello, Mr. Stephen Michael	US Department of Education	Student Support Services Program at Binghamton University 2021-2026	100	\$281,761	\$22,524	\$304,284
Rebello, Mr. Stephen Michael	US Department of Education	2016-2021 Student Support Services Program	100	\$20,160	\$0	\$20,160
Rebello, Mr. Stephen Michael	US Department of Education	Student Support Services STEM Program at Binghamton University 2020-2025	100	\$219,744	\$17,574	\$237,318
Rebello, Mr. Stephen Michael	US Department of Education	Student Support Services STEM Program at Binghamton University 2020-2025	100	\$5,414	\$0	\$5,414

**Department Total: \$1,386,715**

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

Borgesen, Mr. Peter	Allegro Microsystems	Allegro Microsystems Materials Testing Agreement (Project 1)	100	\$1,840	\$460	\$2,300
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<u><i>Investigator</i></u>	<u><i>Sponsor Name</i></u>	<u><i>Award Title</i></u>	<u><i>% Credited to Investigator</i></u>	<u><i>Direct Costs Expended</i></u>	<u><i>F &amp; A Expended</i></u>	<u><i>Total Expended</i></u>
Borgesen, Mr. Peter	Allegro Microsystems	Materials Testing Agreement Project 2	100	\$3,271	\$818	\$4,089
Borgesen, Mr. Peter	Multiple Sponsors	International Visiting Research Scholar Activities	100	\$2,408	\$602	\$3,010
Borgesen, Mr. Peter	Purdue University	CHIRP: Alternative Fine Pitch Interconnect Technologies for SiPs (Proposal Number W32617)	100	\$19,563	\$11,151	\$30,715
Borgesen, Mr. Peter	Purdue University	Borgesen 2020 SRC CHIRP: Reliable Low Temperature Solder Approach	100	\$25,385	\$14,470	\$39,855
Cheng, Dr. Changqing	National Science Foundation	EAGER International Type 11: Sustainable International Collaboration in Spaitotemporal Modeling of Human Mobility and Contagion Dynamics for COVID-19	100	\$45,931	\$24,534	\$70,465
Cheng, Dr. Changqing	Trustees of Columbia University in the City of New York	BD Hubs: NORTHEAST: The Northeast Big Data Innovation Hub Subaward No: 10(GG01486-02)	100	\$0	\$0	\$0
Chung, Dr. Sunghoon	National Science Foundation	Collaborative Research: Arc Routing Problems in Combined Drone/ Truck Fleets	100	\$33,111	\$18,324	\$51,435
Deng, Dr. Jia	National Science Foundation	Multiple-Energy- Assisted Ultrasharp Probe-Based Nanomanufacturing for High-Resolution and High-Efficiency Nanopatterning	50	\$46,862	\$25,888	\$72,749
Greene, Dr. Christopher M	Smart Modular Technologies Inc	Continual Process Improvement for the Assembly of Advanced Complex Surface Mount Devices	50	\$28,101	\$6,906	\$35,006
Greene, Dr. Christopher M	Smart Modular Technologies Inc	Continual Process Improvement for the Assembly of Advanced Complex Surface Mount Devices Assemblies Utilizing Advanced Process Research	50	\$29,080	\$7,135	\$36,214
Greene, Dr. Christopher M	SMART High Reliability Solutions	Continual Process Improvement Research for Complex Surface Mount Device Assemblies	50	\$488	\$127	\$614

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Greene, Dr. Christopher M	Smart Modular Technologies Inc	Quality and Reliability Process Analysis for Complex Electronics Assembly	50	\$17,650	\$4,589	\$22,240
Greene, Dr. Christopher M	Smart Modular Technologies Inc	Advancement in the Assembly Process of Complex Surface Mount Devices	50	\$30,109	\$6,760	\$36,869
Jin, Dr. Yu	Innovation Associates Doing Business As iA	Development of a Virtual Environment for Pharmacy Automation Systems for Software Testing, Training, and Marketing Purposes	33	\$9,150	\$2,379	\$11,529
Jin, Dr. Yu	Zebra Technologies Enterprise Corporation	Simulation-based Business Intelligence and Analytics for Digital Transformation in Manufacturing	20	\$115	\$30	\$144
Khasawneh, Dr. Mohammad	Waseda University	Modeling and Analysis for "How Does Diversity of Individuals Affect the Structure of Society?: A Constructive Approach Using Adaptive Networks" Part 1: Mathematical Analysis of Social Network Models	100	\$5,327	\$3,036	\$8,364
Khasawneh, Dr. Mohammad	Navicent Health	Healthcare Analytics and Solutions R&D at Navicent Health	34	\$22,517	\$5,769	\$28,286
Khasawneh, Dr. Mohammad	Zebra Technologies Enterprise Corporation	Simulation-based Business Intelligence and Analytics for Digital Transformation in Manufacturing	20	\$115	\$30	\$144
Khasawneh, Dr. Mohammad	Nuvance Health	Health System Transformation and Data Management Support for Nuvance Health	50	\$13,327	\$3,340	\$16,667
Khasawneh, Dr. Mohammad	RTsynch	Efficient Development of Data Driven Models Through Hybrid DEVS/SES/Neural Network Methodology	33	\$1,697	\$441	\$2,138
Khasawneh, Dr. Mohammad	Smart Modular Technologies Inc	Quality and Reliability Process Analyses for Complex Electronics Assemblies	50	\$14,595	\$3,670	\$18,265
Khasawneh, Dr. Mohammad	TidalHealth	Continuous Performance Improvement and System Modeling Support for TidalHealth, Inc	50	\$27,722	\$5,397	\$33,119

<u><i>Investigator</i></u>	<u><i>Sponsor Name</i></u>	<u><i>Award Title</i></u>	<u><i>% Credited to Investigator</i></u>	<u><i>Direct Costs Expended</i></u>	<u><i>F &amp; A Expended</i></u>	<u><i>Total Expended</i></u>
Khasawneh, Dr. Mohammad	United Health Services Hospitals Incorporated	Business Intelligence & Performance Improvement R&D	50	\$46,339	\$8,553	\$54,891
Khasawneh, Dr. Mohammad	Waseda University	Modeling and Analysis for "How Does Diversity of Individuals Affect the Structure of Society?: A Constructive Approach Using Adaptive Networks" Part 2: Behavioral Parameter Estimation and Large-Scale Simulations	100	\$4,843	\$2,760	\$7,603
Khasawneh, Dr. Mohammad	Westchester Medical Center	Process Analysis and System Development to Enhance Operational Excellence	50	\$3,480	\$905	\$4,385
Khasawneh, Dr. Mohammad	Montefiore Hospital and Medical Center	Process Analysis and Performance Excellence for Integrated Delivery Care Systems	33	\$10,236	\$2,257	\$12,493
Khasawneh, Dr. Mohammad	United Health Services Hospitals Incorporated	Business Intelligence & Performance Improvement R&D	50	\$27,253	\$7,086	\$34,339
Khasawneh, Dr. Mohammad	Montefiore Hospital and Medical Center	Business Process Engineering Support for Network Management Systems CMO (AMD 23)	33	\$6,448	\$1,677	\$8,125
Khasawneh, Dr. Mohammad	Montefiore Hospital and Medical Center	Business Process Engineering Support for Network Management Systems CMO (AMD 22)	33	\$8,640	\$2,247	\$10,887
Khasawneh, Dr. Mohammad	Montefiore Hospital and Medical Center	Process Analysis and Performance Excellence for Integrated Delivery Care Systems	50	\$5,563	\$1,446	\$7,010
Khasawneh, Dr. Mohammad	Memorial Sloan Kettering Cancer Center	Improving Quality, Safety and Patient Flow and Outpatient Medication Management	50	\$35,307	\$9,057	\$44,365
Khasawneh, Dr. Mohammad	Memorial Sloan Kettering Cancer Center	Improving Quality, Safety and Patient Flow and Outpatient Medication Management	50	\$8,508	\$2,212	\$10,720
Khasawneh, Dr. Mohammad	LiveOnNY	Performance Improvement of Clinical Practices and Operations Research 2021-2022	25	\$11,485	\$2,523	\$14,008

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Khasawneh, Dr. Mohammad	Foxconn Industrial Internet dba FII USA Incorporated	Applied Research in Assembly, Reliability, and Costing for a Global Manufacturer of Electronic Equipment	33	\$31,999	\$8,320	\$40,319
Khasawneh, Dr. Mohammad	EwingCole	Healthcare Practice Research and Development through Operational Planning and Simulation Modeling	50	\$4,841	\$1,259	\$6,100
Khasawneh, Dr. Mohammad	EwingCole	Healthcare Practice Research and Development through Operational Planning and Simulation Modeling	50	\$14,294	\$2,811	\$17,105
Khasawneh, Dr. Mohammad	Christiana Care Health Services Incorporated	Organizational Excellence Support at Christiana Care Health (2021-2022: Amendment 5)	34	\$15,557	\$3,789	\$19,346
Khasawneh, Dr. Mohammad	Mount Sinai Medical Center	WISE Healthcare Systems Engineering and Analytics Support Continuous Performance Improvement Research and Implementation 12104371 Amend 5 &	50	\$115,918	\$27,298	\$143,216
Kwon, Dr. Soongeol	Innovation Associates Doing Business As iA	Mail-Order Pharmacy Analysis and Design: Simulation, Quotation Process, and Industry 4.0 Implementation	25	\$54,997	\$9,220	\$64,217
Kwon, Dr. Soongeol	Innovation Associates Doing Business As iA	Development of a Simulation-Based Pharmacy Automation System Test Environment Integrated with Virtual Machine Emulators	33	\$43,856	\$8,942	\$52,798
Kwon, Dr. Soongeol	EOS Energy Enterprises	Application Engineering Support for Technical Solutions in Battery Energy	33	\$12,181	\$2,138	\$14,319
Kwon, Dr. Soongeol	GE Grid Solutions	Battery Performance Degradation Prediction and Market Bidding Optimization Using Artificial Intelligence, Machine Learning, and Stochastic Optimization	33	\$4,414	\$1,065	\$5,479
Lam, Dr. Sarah	Christiana Care Health Services Incorporated	Organizational Excellence Support at Christiana Care Health (2021-2022: Amendment 5)	33	\$15,099	\$3,678	\$18,777
Lam, Dr. Sarah	Navicent Health	Healthcare Analytics and Soutlions R&D at Navicent Heath	33	\$21,854	\$5,600	\$27,454

<u><i>Investigator</i></u>	<u><i>Sponsor Name</i></u>	<u><i>Award Title</i></u>	<u><i>% Credited to Investigator</i></u>	<u><i>Direct Costs Expended</i></u>	<u><i>F &amp; A Expended</i></u>	<u><i>Total Expended</i></u>
Lu, Dr. Susan Shuxia	National Science Foundation	I-Corps: Low-Cost and Highly Efficient Hydrogen Production from Water Splitting	50	\$4,547	\$505	\$5,053
Nagarur, Dr. Nagendra	Sanmina Corporation	Research in System Integration at a New Product Introduction Facility	50	\$816	\$212	\$1,029
Nagarur, Dr. Nagendra	Sanmina Corporation	Research in Quality Engineering in Electronics Packaging and Manufacturing	50	\$12,170	\$3,164	\$15,334
Nagarur, Dr. Nagendra	Sanmina Corporation	Research in Quality Management in Electronics Assembly and Manufacturing	50	\$1,042	\$271	\$1,313
Nagarur, Dr. Nagendra	Sanmina Corporation	Applied Research in Materials, Processes, and Automation in a Surface Mount Technology Company	50	\$484	\$126	\$610
Nagarur, Dr. Nagendra	Sanmina Corporation	Research in Assembly and Automation in a Surface Mount Technology Company	50	\$15,134	\$3,274	\$18,408
Nagarur, Dr. Nagendra	Sanmina Corporation	Research in Materials, Assembly, and Automation in Printed Circuit Board Assembly	50	\$32,544	\$5,789	\$38,333
Nagarur, Dr. Nagendra	Sanmina Corporation	Research in Discrete Manufacturing and Automation at a Surface Mount Technology Company	50	\$27,780	\$5,663	\$33,443
Poliks, Dr. Mark D	NextFlex	4.8 Wearable Interstitial Fluid Biomarker Monitoring Device (10037)	100	\$98,461	\$0	\$98,461
Poliks, Dr. Mark D	NextFlex	Temperature and Humidity Sensing - Phase 1 - (10049)	100	\$33,102	\$2,306	\$35,408
Poliks, Dr. Mark D	NextFlex	5.2A Datacube: Printed Stretchable Conductors	100	\$64,542	\$12,704	\$77,246



<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Poliks, Dr. Mark D	NextFlex	Project 5.7: Additively Manufactured High Temperature Electronics for Hypersonics (10048)	100	\$793	\$452	\$1,245
Poliks, Dr. Mark D	NextFlex	Project 5.4: Factory-to-Field Embedded Sensing for Structural Components (10044)	100	\$13,152	\$7,496	\$20,648
Poliks, Dr. Mark D	NextFlex	Project 5.4: Factory-to-Field Embedded Sensing for Structural Components (10044)	100	\$98,876	\$0	\$98,876
Poliks, Dr. Mark D	NextFlex	PC 4.9 Small Unmanned Aircraft Systems (SUAS) using Flexible Hybrid Electronics for Expanded Multi-Mission Operation	100	\$13,326	\$7,596	\$20,922
Poliks, Dr. Mark D	Nano-Bio Materials Consortium	Paper 52: Wireless Interstitial Fluid Monitoring Devices	100	\$33,279	\$15,887	\$49,165
Poliks, Dr. Mark D	Lux Semiconductors Incorporated	SBIR Phase 2: Circuit Fabrication and Development on Novel Thin-Film Crystalline Silicon	100	\$53,924	\$29,639	\$83,563
Poliks, Dr. Mark D	Honeywell Federal Manufacturing & Technologies LLC	AM Electronics Testing Development 705049, Rev.1	100	\$3,026	\$1,725	\$4,752
Poliks, Dr. Mark D	Flex Tech Alliance	Soft ElectroNic Skin-Innervated Robotic Work for Rapid Maintenance of Strategic Assets (Sensiworm)	50	\$135,993	\$23,826	\$159,820
Poliks, Dr. Mark D	NextFlex	ADP- Topic 5.8: Temperature and Humidity Sensing Tag Phase 2 Funding	100	\$42,977	\$1,167	\$44,144
Poliks, Dr. Mark D	NextFlex	PC 4.9 Small Unmanned Aircraft Systems (SUAS) using Flexible Hybrid Electronics for Expanded Multi-Mission Operation	100	\$296,967	\$0	\$296,967
Poliks, Dr. Mark D	NextFlex	Prediction of Infectious Disease Evolution in Ambulatory Patients Through Continuous Health Assessment	100	\$71,461	\$14,250	\$85,711

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Poliks, Dr. Mark D	NextFlex	Task 6.2: NextFlex Reliability Validation and Sustainment of Direct-Write Printed RF Devices	100	\$18,896	\$9,867	\$28,764
Poliks, Dr. Mark D	NextFlex	Task 6.7: NextFlex Mid-Band Phased Array Demonstrator Using Printed and Flexible Hybrid Electronics	100	\$66,489	\$29,068	\$95,558
Poliks, Dr. Mark D	NextFlex	Task 6.10: NextFlex Small-Scale mm-Wave SATCOM System & 5G Systems for UAS Attributable Platform	100	\$8,439	\$4,810	\$13,249
Poliks, Dr. Mark D	NextFlex	Task 6.1: AM High Temperature RF Components for Hypersonics	100	\$27,459	\$15,552	\$43,012
Poliks, Dr. Mark D	NYS Department of Economic Development	Center For Flexible Hybrid Medical Device Manufacturing	100	\$84,167	\$1,847	\$86,014
Poliks, Dr. Mark D	NYS Department of Economic Development	Center For Flexible Hybrid Medical Device Manufacturing	100	\$4,092	\$586	\$4,678
Poliks, Dr. Mark D	NYS Department of Economic Development	Center For Flexible Hybrid Medical Device Manufacturing	100	\$502,355	\$51,620	\$553,975
Poliks, Dr. Mark D	SEMI	3D Printed Electronics with Multi Jet Fusion for Flexible Hybrid Electronics	100	\$132,904	\$21,181	\$154,085
Poliks, Dr. Mark D	TTM Technologies	FlexMed Research Support/Collaboration TTM BGM	100	\$56	\$8	\$64
Poliks, Dr. Mark D	Flex Tech Alliance	Wireless Vital Sign Monitoring Devices for Ambulatory Care	100	\$693,267	\$46,697	\$739,964
Poliks, Dr. Mark D	Universal Instruments Corporation	Process Development to Assemble Leadless Semiconductor Strain Gauges onto Polyimide Substrates	100	\$14,968	\$7,940	\$22,909

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Poliks, Dr. Mark D	Flex Tech Alliance	Advanced Power Device Integration Using Direct Write Technology Paper 13	100	\$154,757	\$23,771	\$178,529
Poliks, Dr. Mark D	Universal Instruments Corporation	FlexMed: Evaluation of flip-chip methods suitable for low-cost, limited-temperature flexible substrate materials	100	\$12,333	\$2,681	\$15,015
Poliks, Dr. Mark D	Empire State Development Corp	AA878 Consolidated Award	100	\$35,083	\$10,440	\$45,523
Poliks, Dr. Mark D	Corning Incorporated	Roll-to-Roll (R2R) Processing of Thin Flexible Inorganic Substrates	100	\$2,152	\$1,227	\$3,379
Poliks, Dr. Mark D	Empire State Development Corp	ESD Funded- AFRL Flexible Hybrid Electronics Phase 0 Foundational Engineering Problem	100	\$4,950	\$2,822	\$7,772
Poliks, Dr. Mark D	Empire State Development Corp	Operational Account	100	\$465	\$265	\$730
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match to 4.8 Wearable Interstitial Fluid Biomarker Monitoring Device	100	\$6,858	\$0	\$6,858
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match to PC 4.9 Small Unmanned Aircraft Systems (SUAS) using Flexible Hybrid Electronics for Expanded Multi-Mission Operation	100	\$32,610	\$4,006	\$36,615
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match to PC 4.9 Small Unmanned Aircraft Systems (SUAS) using Flexible Hybrid Electronics for Expanded Multi-Mission Operation	100	\$84,322	\$0	\$84,322
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match to Project 5.4- Factory-to-Field Embedded Sensing for Structural Components	100	\$21,418	\$0	\$21,418
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match to Project 5.4- Factory-to-Field Embedded Sensing for Structural Components	100	\$23,219	\$13,235	\$36,454

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match: Project 5.7 Additively Manufactured High Temperature Electronics for Hypersonics	100	\$26,593	\$1,083	\$27,676
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match to Project 5.2A: DataCube: Printed Stretchable Conductors	100	\$66,232	\$19,130	\$85,362
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match to PC5.5	100	\$118,785	\$17,352	\$136,137
Poliks, Dr. Mark D	Empire State Development Corp	Project 5.8 - Temperature and Humidity Sensing	100	\$53,033	\$98	\$53,131
Poliks, Dr. Mark D	Flex Tech Alliance	5.5 Passive UHF-RFID Tag with Encrypted Security Features for Authentication and Tamper	100	\$156,797	\$32,748	\$189,545
Poliks, Dr. Mark D	Empire State Development Corp	AA878 Match to 90742-3.7B	100	\$89,008	\$14,271	\$103,279
Poliks, Dr. Mark D	Corning Incorporated	FlexMed: Metalization and R2R Processing on the Thin Flexible Inorganic Substrates	100	\$8,948	\$5,100	\$14,048
Poliks, Dr. Mark D	Empire State Development Corp	AA878 Consolidated Award	100	\$11,310	\$6,446	\$17,756
Poliks, Dr. Mark D	Empire State Development Corp	AA878 Consolidated Award	100	\$6,314	\$2,695	\$9,010
Poliks, Dr. Mark D	Empire State Development Corp	AA878 Consolidated Award	100	\$4,887	\$2,786	\$7,673
Poliks, Dr. Mark D	Empire State Development Corp	AA878 Consolidated Award	100	\$2,524	\$1,439	\$3,962

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Poliks, Dr. Mark D	Empire State Development Corp	AA878 Consolidated Award	100	\$13,355	\$2,452	\$15,808
Poliks, Dr. Mark D	Empire State Development Corp	AA878 Consolidated Award	100	\$7,362	\$4,197	\$11,559
Poliks, Dr. Mark D	Empire State Development Corp	ESD Match - Advanced Power Integration Using Direct Write Technology	100	\$128,959	\$21,094	\$150,053
Poliks, Dr. Mark D	Empire State Development Corp	Soft ElectroNc Skin-Innervated Robotic Work for Rapid Maintenance of Strategic Assets (Sensiworm)	50	\$120,425	\$18,569	\$138,993
Poliks, Dr. Mark D	FuzeHub	Scalable Manufacturing of Microelectronic Biosensors Using Conductive Links Binghamton University CAMM Aincobio	100	\$40,613	\$0	\$40,613
Poliks, Dr. Mark D	Flex Tech Alliance	NextFlex- AFRL Flexible Hybrid Electronics Phase 0 Foundational Engineering Problem	100	(\$380)	(\$217)	(\$597)
Poliks, Dr. Mark D	Corning Incorporated	FlexMed: Metalization and R2R Processing of the Thin Flexible Inorganic Substrates	100	\$65,711	\$37,455	\$103,166
Poliks, Dr. Mark D	Flex Tech Alliance	Improved ECG Monitor with Capacitive Electrodes	20	(\$60)	(\$34)	(\$95)
Poliks, Dr. Mark D	Empire State Development Corp	Wireless Vital Sign Monitoring Devices for Ambulatory Care	100	\$739,663	\$2,619	\$742,282
Rocha, Dr. Luis	Trustees of Indiana University	NRT: Interdisciplinary Training in Complex Networks and Systems Subaward BL 9294	100	\$12,822	\$6,411	\$19,234
Rocha, Dr. Luis	National Library of Medicine	myAURA: Personalized Web Service for Epilepsy Management	100	\$123,162	\$62,599	\$185,760

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Santos, Dr. Daryl L	Foxconn Industrial Internet dba FII USA Incorporated	Applied Research in Assembly, Reliability, and Costing for a Global Manufacturer of Electronic Equipment	33	\$31,999	\$8,320	\$40,319
Sayama, Dr. Hiroki	National Science Foundation	Diversity, Network Structure, and the Effectiveness of Collective Design and Innovation	33.34	\$141	\$0	\$141
Si, Dr. Bing	Agency for Healthcare Research and Quality	Multi-Level Influences of Violence Screening in College Health Centers	40	\$13,518	\$3,966	\$17,484
Si, Dr. Bing	IBM Corporation	Ray-based Distributed Computing in Multi-Task Functional Data Analysis for Neuromorphic Computing and Other Applications	80	\$13,258	\$0	\$13,258
Si, Dr. Bing	State University of New York	Ray-based Distributed Computing in Multi-Task Functional Data Analysis for Neuromorphic Computing and Other Applications	80	\$12,908	\$0	\$12,908
Si, Dr. Bing	University of Rhode Island	Multi-level Influences of Violence Screening in College Health Centers	100	\$13,547	\$7,722	\$21,269
Srihari, Dr. Krishnaswami	Raymond Leasing Corporation	Developing a Predictive Model of Used Equipment Fair Market Value to Optimize Residual Setting	34	\$5,041	\$780	\$5,821
Srihari, Dr. Krishnaswami	Sanmina Corporation	Applied Research in Materials, Processes, and Automation in a Surface Mount Technology Company	50	\$484	\$126	\$610
Srihari, Dr. Krishnaswami	Sanmina Corporation	Research in System Integration at a New Product Introduction Facility	50	\$816	\$212	\$1,029
Srihari, Dr. Krishnaswami	Sanmina Corporation	Research in Materials, Assembly, and Automation in Printed Circuit Board Assembly	50	\$32,544	\$5,789	\$38,333
Srihari, Dr. Krishnaswami	Sanmina Corporation	Research in Quality Engineering in Electronics Packaging and Manufacturing	50	\$12,170	\$3,164	\$15,334

<u><i>Investigator</i></u>	<u><i>Sponsor Name</i></u>	<u><i>Award Title</i></u>	<u><i>% Credited to Investigator</i></u>	<u><i>Direct Costs Expended</i></u>	<u><i>F &amp; A Expended</i></u>	<u><i>Total Expended</i></u>
Srihari, Dr. Krishnaswami	Sanmina Corporation	Research in Assembly and Automation in a Surface Mount Technology Company	50	\$15,134	\$3,274	\$18,408
Srihari, Dr. Krishnaswami	Sanmina Corporation	Research in Quality Management in Electronics Assembly and Manufacturing	50	\$1,042	\$271	\$1,313
Srihari, Dr. Krishnaswami	RTsynch	Efficient Development of Data Driven Models Through Hybrid DEVS/SES/Neural Network Methodology	33	\$1,697	\$441	\$2,138
Srihari, Dr. Krishnaswami	Smart Modular Technologies Inc	Continual Process Improvement for the Assembly of Advanced Complex Surface Mount Devices Assemblies Utilizing Advanced Process Research	50	\$29,080	\$7,135	\$36,214
Srihari, Dr. Krishnaswami	Raymond Corporation	Data Analytics for Process Evaluation and Daily Process Automation in Raymond Logistics	34	\$7,623	\$1,452	\$9,074
Srihari, Dr. Krishnaswami	Zebra Technologies Enterprise Corporation	Simulation-based Business Intelligence and Analytics for Digital Transformation in Manufacturing	20	\$115	\$30	\$144
Srihari, Dr. Krishnaswami	Sapphire Automation	Digital Transformation of Smart Manufacturing Using an AI/ML - based Approach	34	\$7,879	\$1,963	\$9,842
Srihari, Dr. Krishnaswami	SMART High Reliability Solutions	Continual Process Improvement Research for Complex Surface Mount Device Assemblies	50	\$488	\$127	\$614
Srihari, Dr. Krishnaswami	Smart Modular Technologies Inc	Continual Process Improvement for the Assembly of Advanced Complex Surface Mount Devices	50	\$28,101	\$6,906	\$35,006
Srihari, Dr. Krishnaswami	Smart Modular Technologies Inc	Advancement in the Assembly Process of Complex Surface Mount Devices	50	\$30,109	\$6,760	\$36,869
Srihari, Dr. Krishnaswami	Smart Modular Technologies Inc	Quality and Reliability Process Analyses for Complex Electronics Assemblies	50	\$14,595	\$3,670	\$18,265

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Srihari, Dr. Krishnaswami	TidalHealth	Continuous Performance Improvement and System Modeling Support for TidalHealth, Inc	50	\$27,722	\$5,397	\$33,119
Srihari, Dr. Krishnaswami	United Health Services Hospitals Incorporated	Business Intelligence & Performance Improvement R&D	50	\$27,253	\$7,086	\$34,339
Srihari, Dr. Krishnaswami	United Health Services Hospitals Incorporated	Business Intelligence & Performance Improvement R&D	50	\$46,339	\$8,553	\$54,891
Srihari, Dr. Krishnaswami	Westchester Medical Center	Process Analysis and System Development to Enhance Operational Excellence	50	\$3,480	\$905	\$4,385
Srihari, Dr. Krishnaswami	Raymond Corporation	Standard Work Documentation and Performance improvement in Raymond Logistics	34	\$3,837	\$998	\$4,835
Srihari, Dr. Krishnaswami	Smart Modular Technologies Inc	Quality and Reliability Process Analysis for Complex Electronics Assembly	50	\$17,650	\$4,589	\$22,240
Srihari, Dr. Krishnaswami	Innovation Associates Doing Business As iA	Development of a Simulation-Based Pharmacy Automation System Test Environment Integrated with Virtual Machine Emulators	34	\$45,185	\$9,213	\$54,398
Srihari, Dr. Krishnaswami	Nuvance Health	Health System Transformation and Data Management Support for Nuvance Health	50	\$13,327	\$3,340	\$16,667
Srihari, Dr. Krishnaswami	Sanmina Corporation	Research in Discrete Manufacturing and Automation at a Surface Mount Technology Company	50	\$27,780	\$5,663	\$33,443
Srihari, Dr. Krishnaswami	Bennett Distribution Services Limited Liability Corporation	Warehouse Operations Management and Analytics Research And Development	34	\$8,874	\$1,777	\$10,651
Srihari, Dr. Krishnaswami	Christiana Care Health Services Incorporated	Organizational Excellence Support at Christiana Care Health (2021-2022: Amendment 5)	33	\$15,099	\$3,678	\$18,777



<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Srihari, Dr. Krishnaswami	EOS Energy Enterprises	Application Engineering Support for Technical Solutions in Battery Energy	34	\$12,551	\$2,202	\$14,753
Srihari, Dr. Krishnaswami	EwingCole	Healthcare Practice Research and Development through Operational Planning and Simulation Modeling	50	\$14,294	\$2,811	\$17,105
Srihari, Dr. Krishnaswami	EwingCole	Healthcare Practice Research and Development through Operational Planning and Simulation Modeling	50	\$4,841	\$1,259	\$6,100
Srihari, Dr. Krishnaswami	Facebook Incorporated	Hardware Validation Testing Solution Development for Operations Integration at Facebook Infrastructure SOW INB2389116	100	\$33,951	\$8,327	\$42,278
Srihari, Dr. Krishnaswami	GE Grid Solutions	Battery Performance Degradation Prediction and Market Bidding Optimization Using Artificial Intelligence, Machine Learning, and Stochastic Optimization	34	\$4,548	\$1,097	\$5,645
Srihari, Dr. Krishnaswami	Innovation Associates Doing Business As iA	Mail-Order Pharmacy Analysis and Design: Simulation, Quotation Process, and Industry 4.0 Implementation	25	\$54,997	\$9,220	\$64,217
Srihari, Dr. Krishnaswami	Innovation Associates Doing Business As iA	Development of a Virtual Environment for Pharmacy Automation Systems for Software Testing, Training, and Marketing Purposes	34	\$9,428	\$2,451	\$11,879
Srihari, Dr. Krishnaswami	Montefiore Hospital and Medical Center	Business Process Engineering Support for Network Management Systems CMO (AMD 22)	34	\$8,902	\$2,315	\$11,217
Srihari, Dr. Krishnaswami	Navicent Health	Healthcare Analytics and Solutions R&D at Navicent Health	33	\$21,854	\$5,600	\$27,454
Srihari, Dr. Krishnaswami	Mount Sinai Medical Center	WISE Healthcare Systems Engineering and Analytics Support Continuous Performance Improvement Research and Implementation 12104371 Amend 5 &	50	\$115,918	\$27,298	\$143,216
Srihari, Dr. Krishnaswami	Foxconn Industrial Internet dba FII USA Incorporated	Applied Research in Assembly, Reliability, and Costing for a Global Manufacturer of Electronic Equipment	34	\$32,969	\$8,572	\$41,541

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Srihari, Dr. Krishnaswami	Montefiore Hospital and Medical Center	Process Analysis and Performance Excellence for Integrated Delivery Care Systems	34	\$10,546	\$2,326	\$12,872
Srihari, Dr. Krishnaswami	Lattice Semiconductor	Interactive Data Management Platform to Drive Smart Manufacturing in Fabless Semiconductor Manufacturing Chains	34	\$30,611	\$6,844	\$37,455
Srihari, Dr. Krishnaswami	Montefiore Hospital and Medical Center	Process Analysis and Performance Excellence for Integrated Delivery Care Systems	50	\$5,563	\$1,446	\$7,010
Srihari, Dr. Krishnaswami	Memorial Sloan Kettering Cancer Center	Improving Quality, Safety and Patient Flow and Outpatient Medication Management	50	\$35,307	\$9,057	\$44,365
Srihari, Dr. Krishnaswami	Memorial Sloan Kettering Cancer Center	Improving Quality, Safety and Patient Flow and Outpatient Medication Management	50	\$8,508	\$2,212	\$10,720
Srihari, Dr. Krishnaswami	LiveOnNY	Performance Improvement of Clinical Practices and Operations Research 2021-2022	25	\$11,485	\$2,523	\$14,008
Srihari, Dr. Krishnaswami	Lattice Semiconductor	Interactive Data Management Platform to Drive Smart Manufacturing in Fabless Semiconductor Manufacturing Chains (AMD 1. 22-23)	34	\$4,805	\$1,249	\$6,054
Srihari, Dr. Krishnaswami	Montefiore Hospital and Medical Center	Business Process Engineering Support for Network Management Systems CMO (AMD 23)	34	\$6,644	\$1,727	\$8,371
Wang, Dr. Yong	Montefiore Hospital and Medical Center	Process Analysis and Performance Excellence for Integrated Delivery Care Systems	33	\$10,236	\$2,257	\$12,493
Wang, Dr. Yong	EOS Energy Enterprises	Application Engineering Support for Technical Solutions in Battery Energy	33	\$12,181	\$2,138	\$14,319
Wang, Dr. Yong	Raymond Leasing Corporation	Developing a Predictive Model of Used Equipment Fair Market Value to Optimize Residual Setting	33	\$4,893	\$757	\$5,650

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Wang, Dr. Yong	Raymond Corporation	Data Analytics for Process Evaluation and Daily Process Automation in Raymond Logistics	33	\$7,399	\$1,409	\$8,808
Wang, Dr. Yong	Raymond Corporation	Standard Work Documentation and Performance improvement in Raymond Logistics	33	\$3,724	\$968	\$4,693
Wang, Dr. Yong	Montefiore Hospital and Medical Center	Business Process Engineering Support for Network Management Systems CMO (AMD 23)	33	\$6,448	\$1,677	\$8,125
Wang, Dr. Yong	Bennett Distribution Services Limited Liability Corporation	Warehouse Operations Management and Analytics Research And Development	33	\$8,613	\$1,725	\$10,338
Wang, Dr. Yong	GE Grid Solutions	Battery Performance Degradation Prediction and Market Bidding Optimization Using Artificial Intelligence, Machine Learning, and Stochastic Optimization	33	\$4,414	\$1,065	\$5,479
Wang, Dr. Yong	Empire State Development Corp	Smart Cities Innovation Partnership Project: Advanced Water Meters in New York State: Capital Grant: Project#134,146	34	\$4,861	\$705	\$5,566
Wang, Dr. Yong	Innovation Associates Doing Business As iA	Mail-Order Pharmacy Analysis and Design: Simulation, Quotation Process, and Industry 4.0 Implementation	25	\$54,997	\$9,220	\$64,217
Wang, Dr. Yong	Montefiore Hospital and Medical Center	Business Process Engineering Support for Network Management Systems CMO (AMD 22)	33	\$8,640	\$2,247	\$10,887
Won, Dr. Daehan	Lattice Semiconductor	Interactive Data Management Platform to Drive Smart Manufacturing in Fabless Semiconductor Manufacturing Chains (AMD 1. 22-23)	33	\$4,664	\$1,213	\$5,876
Won, Dr. Daehan	Zebra Technologies Enterprise Corporation	Simulation-based Business Intelligence and Analytics for Digital Transformation in Manufacturing	20	\$115	\$30	\$144
Won, Dr. Daehan	Sapphire Automation	Digital Transformation of Smart Manufacturing Using an AI/ML - based Approach	33	\$7,647	\$1,906	\$9,553

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Won, Dr. Daehan	LiveOnNY	Performance Improvement of Clinical Practices and Operations Research 2021-2022	25	\$11,485	\$2,523	\$14,008
Won, Dr. Daehan	Lattice Semiconductor	Interactive Data Management Platform to Drive Smart Manufacturing in Fabless Semiconductor Manufacturing Chains	33	\$29,711	\$6,643	\$36,354
Won, Dr. Daehan	Koh Young Technology Incorporated	Development of Self-Optimization and AI-based Diagnostics Modules in the Printed Circuit Board Assembly Process	33	\$10,199	\$5,632	\$15,831
Won, Dr. Daehan	Koh Young Technology Incorporated	AI-based System Integration for Process Enhancement in the Printed Circuit Board Assembly	33	\$13,135	\$5,815	\$18,951
Won, Dr. Daehan	Koh Young Technology Incorporated	Development of Closed-Loop Control and Optimization Modules of the Printed Circuit Board Assembly Processes in Surface Mount Technology	33	\$27,875	\$14,579	\$42,453
Won, Dr. Daehan	Koh Young Technology Incorporated	Development of Pick and Placement Machine On/Offline Optimization and Diagnosis Modules in Printed Circuit Board Assembly Process	33	\$636	\$0	\$636
Won, Dr. Daehan	Koh Young Technology Incorporated	Development of Pick and Placement Machine On/Offline Optimization and Diagnosis Modules in Printed Circuit Board Assembly Process	33	\$25,827	\$13,593	\$39,419
Won, Dr. Daehan	Nano-Bio Materials Consortium	Epifluidics for Stress Monitoring	30	\$16,317	\$7,249	\$23,566
Yoon, Dr. Sangwon	RTsynch	Efficient Development of Data Driven Models Through Hybrid DEVS/SES/Neural Network Methodology	34	\$1,748	\$454	\$2,202
Yoon, Dr. Sangwon	Sapphire Automation	Digital Transformation of Smart Manufacturing Using an AI/ML - based Approach	33	\$7,647	\$1,906	\$9,553
Yoon, Dr. Sangwon	Lattice Semiconductor	Interactive Data Management Platform to Drive Smart Manufacturing in Fabless Semiconductor Manufacturing Chains	33	\$29,711	\$6,643	\$36,354

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Yoon, Dr. Sangwon	Raymond Leasing Corporation	Developing a Predictive Model of Used Equipment Fair Market Value to Optimize Residual Setting	33	\$4,893	\$757	\$5,650
Yoon, Dr. Sangwon	Raymond Corporation	Data Analytics for Process Evaluation and Daily Process Automation in Raymond Logistics	33	\$7,399	\$1,409	\$8,808
Yoon, Dr. Sangwon	Raymond Corporation	Standard Work Documentation and Performance improvement in Raymond Logistics	33	\$3,724	\$968	\$4,693
Yoon, Dr. Sangwon	LiveOnNY	Performance Improvement of Clinical Practices and Operations Research 2021-2022	25	\$11,485	\$2,523	\$14,008
Yoon, Dr. Sangwon	Lattice Semiconductor	Interactive Data Management Platform to Drive Smart Manufacturing in Fabless Semiconductor Manufacturing Chains (AMD 1. 22-23)	33	\$4,664	\$1,213	\$5,876
Yoon, Dr. Sangwon	Innovation Associates Doing Business As iA	Development of a Simulation-Based Pharmacy Automation System Test Environment Integrated with Virtual Machine Emulators	33	\$43,856	\$8,942	\$52,798
Yoon, Dr. Sangwon	Zebra Technologies Enterprise Corporation	Simulation-based Business Intelligence and Analytics for Digital Transformation in Manufacturing	20	\$115	\$30	\$144
Yoon, Dr. Sangwon	Bennett Distribution Services Limited Liability Corporation	Warehouse Operations Management and Analytics Research And Development	33	\$8,613	\$1,725	\$10,338
Yoon, Dr. Sangwon	Innovation Associates Doing Business As iA	Mail-Order Pharmacy Analysis and Design: Simulation, Quotation Process, and Industry 4.0 Implementation	25	\$54,997	\$9,220	\$64,217
Yoon, Dr. Sangwon	Innovation Associates Doing Business As iA	Development of a Virtual Environment for Pharmacy Automation Systems for Software Testing, Training, and Marketing Purposes	33	\$9,150	\$2,379	\$11,529
Yoon, Dr. Sangwon	Koh Young Technology Incorporated	Development of Pick and Placement Machine On/Offline Optimization and Diagnosis Modules in Printed Circuit Board Assembly Process	33	\$25,827	\$13,593	\$39,419

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Yoon, Dr. Sangwon	Koh Young Technology Incorporated	Development of Pick and Placement Machine On/Offline Optimization and Diagnosis Modules in Printed Circuit Board Assembly Process	33	\$636	\$0	\$636
Yoon, Dr. Sangwon	Koh Young Technology Incorporated	Development of Closed-Loop Control and Optimization Modules of the Printed Circuit Board Assembly Processes in Surface Mount Technology	33	\$27,875	\$14,579	\$42,453
Yoon, Dr. Sangwon	Koh Young Technology Incorporated	AI-based System Integration for Process Enhancement in the Printed Circuit Board Assembly	33	\$13,135	\$5,815	\$18,951
Yoon, Dr. Sangwon	Koh Young Technology Incorporated	Development of Self-Optimization and AI-based Diagnostics Modules in the Printed Circuit Board Assembly Process	33	\$10,199	\$5,632	\$15,831
<b>Department Total:</b>				<b>\$8,415,085</b>		

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Baique, Mr. Miguel C	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	\$22,811	\$360	\$23,171
Ghose, Dr. Kanad	National Science Foundation	Phase II IUCRC Binghamton University Center for Energy-Smart Electronic Systems (ES2)	50	\$35,880	\$20,452	\$56,332
Ghose, Dr. Kanad	Multiple Sponsors	Memberships for NSF Industry/University Cooperative Research Center in Energy-Smart Electronic systems	50	\$12,500	\$0	\$12,500
Ghose, Dr. Kanad	Xilinx	Xilinx I/UCRC Membership 2017-2022	50	\$28,331	\$2,833	\$31,164
Ghose, Dr. Kanad	Villanova University	PHASE II- IUCRC Center for Energy-Smart Electronic Systems - Subaward 525877 FleischerBinghamton	50	\$4,130	\$2,354	\$6,484
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	\$13,176	\$7,510	\$20,686

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Ghose, Dr. Kanad	Multiple Sponsors	Memberships for NSF Industry/University Cooperative Research Center in Energy-Smart Electronic systems	50	\$142,675	\$14,267	\$156,942
Ghose, Dr. Kanad	Future Facilities Incorporated	Future Facilities ES2 Membership	50	\$577	\$58	\$635
Ghose, Dr. Kanad	Bloomberg LP	Industry/University Cooperative Research Center in Energy-Smart Electronic Systems Membership (ES2)	50	\$15,805	\$1,580	\$17,385
Ghose, Dr. Kanad	BAE Systems Controls Incorporated	BAE 2020 ES2 I/UCRC membership Agreement	50	\$1,058	\$106	\$1,164
Ghose, Dr. Kanad	Multiple Sponsors	Memberships for NSF Industry/University Cooperative Research Center in Energy-Smart Electronic systems	50	\$12,500	\$0	\$12,500
Ghose, Dr. Kanad	Vertiv	Vertiv's ES2/ IUCRC Membership 2020-2021	50	\$189	\$19	\$208
Gieskes, Mr. Koenraad E.	NYS Education Department	STEP 2021-2022	50	\$70,515	\$5,350	\$75,865
Majors, Ms. Monica	NYS Education Department	Science Technology Entry Program 2020-2021	50	\$7,190	\$145	\$7,335
Park, Dr. Seungbae	Unison Industries LLC	Unison's Participating Membership in the IEEC 2021-2022	100	\$271	\$54	\$326
Park, Dr. Seungbae	Xilinx	IEEC Center Membership Agreement	100	\$1,893	\$379	\$2,272
Park, Dr. Seungbae	NYS Department of Economic Development	NYS CAT Funding for 2020-2021	100	\$26,745	\$4,833	\$31,578

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Park, Dr. Seungbae	NYS Department of Economic Development	NYS CAT Funding for 2021-2022	100	\$684,156	\$93,998	\$778,154
Park, Dr. Seungbae	Prismark Partners LLC	Prismark Partner's Participating Membership in the IEEC	100	\$22,605	\$4,521	\$27,126
Park, Dr. Seungbae	R&D Altanova	IEEC Membership 2021-2022 R&D Altanova	100	\$4,167	\$833	\$5,000
Park, Dr. Seungbae	Raymond Corporation	Raymond Corporation's Participating Membership in the IEEC 2018-2021	100	\$34	\$7	\$41
Park, Dr. Seungbae	Sanmina Corporation	2018-2023 Sanmina IEEC Membership	100	\$2,740	\$548	\$3,288
Park, Dr. Seungbae	SVMT Corp	Participating Membership in the IEEC 2022 Silicon Valley Materials Technology Corp.	100	\$1,000	\$200	\$1,200
Park, Dr. Seungbae	Universal Instruments Corporation	Universal Instruments Annual Participating Membership IEEC	100	\$76	\$15	\$91
Park, Dr. Seungbae	Koh Young Technology Incorporated	Integrated Electronics Engineering Center Membership 2018-2023	100	\$40,640	\$8,128	\$48,768
Park, Dr. Seungbae	Snake Creek Lasers LLC	Snake Creek Lasers dba Advanced Photonic Sciences IEEC Membership	100	\$80	\$16	\$97
Park, Dr. Seungbae	Advanced Semiconductor Engineering Incorporated	ASE's Membership in the IEEC, 2015-2022	100	\$39,025	\$7,805	\$46,830
Park, Dr. Seungbae	Juniper Networks Incorporated	Juniper Network Membership in the IEEC 2021-2023	100	\$4,126	\$825	\$4,951



<u><i>Investigator</i></u>	<u><i>Sponsor Name</i></u>	<u><i>Award Title</i></u>	<u><i>% Credited to Investigator</i></u>	<u><i>Direct Costs Expended</i></u>	<u><i>F &amp; A Expended</i></u>	<u><i>Total Expended</i></u>
Park, Dr. Seungbae	IBM Corporation	IEEC Membership- IBM 2018-2022 Agreement No 4913015695.1	100	\$42,013	\$8,403	\$50,415
Park, Dr. Seungbae	Excelitas Technologies	IEEC Membership Excelitas 2021-2023	100	\$229	\$46	\$274
Park, Dr. Seungbae	Dupont Speciality Products USA LLC	E.I. du Pont IEEC Membership	100	\$3,239	\$648	\$3,886
Park, Dr. Seungbae	Corning Incorporated	IEEC Membership 2015-2022 - Corning Inc.	100	\$10,587	\$2,117	\$12,704
Park, Dr. Seungbae	BAE Systems Controls Incorporated	BAE Full IEEC Membership 2021	100	\$24,862	\$4,972	\$29,834
Park, Dr. Seungbae	AVO Photonics	Avo Photonics IEEC Membership 2020-2021	100	\$4,000	\$800	\$4,800
Park, Dr. Seungbae	Ashlawn Energy, LLC	Ashlawn Energy 2019-2020 IEEC Membership	100	(\$16,667)	(\$3,333)	(\$20,000)
Park, Dr. Seungbae	Analog Devices, Incorporated	Analog Devices Full Membership in the IEEC 2019-2022	100	\$11,509	\$2,302	\$13,811
Park, Dr. Seungbae	NYS Department of Economic Development	Center for Advanced Technology September 1, 2015-June 30, 2020	100	\$39,400	\$0	\$39,400
Park, Dr. Seungbae	Lockheed Martin Corporation	Lockheed Martin's IEEC Membership	100	\$22,053	\$4,411	\$26,463
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence - Small Scale Systems Integration and Packaging (S3IP 2020-2021)	100	\$2,923	\$438	\$3,361

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Sammakia, Dr. Bahgat G	NYS Department of Economic Development	COE 2021-2022	100	\$681,919	\$92,458	\$774,377
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	COE Carry Forward Balances	100	\$23,925	\$696	\$24,621
Sammakia, Dr. Bahgat G	Purdue University	USPAE Proposal to CIR CS-20-1302 for Lead Free Defense Electronics Subagreement under the Advanced Technology international Prime Agreement No. 2021-432	100	\$151,288	\$86,234	\$237,523
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	\$13,176	\$7,510	\$20,686
Sammakia, Dr. Bahgat G	Vertiv	Vertiv's ES2/ IUCRC Membership 2020-2021	50	\$189	\$19	\$208
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence - Small Scale Systems Integration and Packaging (S3IP 2020-2021)	100	\$3,840	\$576	\$4,416
Sammakia, Dr. Bahgat G	Xilinx	Xilinx I/UCRC Membership 2017-2022	50	\$28,331	\$2,833	\$31,164
Sammakia, Dr. Bahgat G	Multiple Sponsors	Memberships for NSF Industry/University Cooperative Research Center in Energy-Smart Electronic systems	50	\$12,500	\$0	\$12,500
Sammakia, Dr. Bahgat G	Villanova University	PHASE II- IUCRC Center for Energy-Smart Electronic Systems - Subaward 525877 FleischerBinghamton	50	\$4,130	\$2,354	\$6,484
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence - Small Scale Systems Integration and Packaging (S3IP 2020-2021)	100	\$2,931	\$440	\$3,371
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence - Small Scale Systems Integration and Packaging (S3IP 2020-2021)	100	\$159,358	\$23,904	\$183,262

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence - Small Scale Systems Integration and Packaging (S3IP 2020-2021)	100	\$29,542	\$3,343	\$32,885
Sammakia, Dr. Bahgat G	NYS Department of Economic Development	Center of Excellence Small Scale Systems Integration and Packaging (S3IP) 2019-2020	100	\$1,069	\$0	\$1,069
Sammakia, Dr. Bahgat G	Multiple Sponsors	Memberships for NSF Industry/University Cooperative Research Center in Energy-Smart Electronic systems	50	\$12,500	\$0	\$12,500
Sammakia, Dr. Bahgat G	Multiple Sponsors	Memberships for NSF Industry/University Cooperative Research Center in Energy-Smart Electronic systems	50	\$142,675	\$14,267	\$156,942
Sammakia, Dr. Bahgat G	Future Facilities Incorporated	Future Facilities ES2 Membership	50	\$577	\$58	\$635
Sammakia, Dr. Bahgat G	Bloomberg LP	Industry/University Cooperative Research Center in Energy-Smart Electronic Systems Membership (ES2)	50	\$15,805	\$1,580	\$17,385
Sammakia, Dr. Bahgat G	BAE Systems Controls Incorporated	BAE 2020 ES2 I/UCRC membership Agreement	50	\$1,058	\$106	\$1,164
Sammakia, Dr. Bahgat G	National Science Foundation	Phase II IUCRC Binghamton University Center for Energy-Smart Electronic Systems (ES2)	50	\$35,880	\$20,452	\$56,332
Srihari, Dr. Krishnaswami	Multiple Sponsors	Income Received Through Watson School Continuing Education for SSIE Activities	100	\$83,511	\$20,878	\$104,389
Srihari, Dr. Krishnaswami	Multiple Sponsors	Income from Watson School Continuing Education Miscellaneous Activities	100	\$59,443	\$14,861	\$74,304
<b>Department Total:</b>				<b>\$3,293,254</b>		

<u>Investigator</u>	<u>Sponsor Name</u>	<u>Award Title</u>	<u>% Credited to Investigator</u>	<u>Direct Costs Expended</u>	<u>F &amp; A Expended</u>	<u>Total Expended</u>
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<b>Total:</b>	<b>\$50,272,913</b>
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