

# Sponsored Programs Proposal Submission Report

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



<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
<b>020 Acad Affairs Prov VP</b>						
Andrea MacArgel	Scaffolding equity through a community of transformation	National Science Foundation	15%	\$417,261	6/1/2022	5/31/2027
Erica Sausner	Scaffolding equity through a community of transformation	National Science Foundation	75%	\$2,086,307	6/1/2022	5/31/2027
James Pitarresi	Scaffolding equity through a community of transformation	National Science Foundation	5%	\$139,087	6/1/2022	5/31/2027
Kerry Whigham	Building Capacity for Atrocity Prevention	US Department of State	33%	\$407,333	10/1/2022	9/30/2025
Maxim Pensky	Building Capacity for Atrocity Prevention	US Department of State	33%	\$407,333	10/1/2022	9/30/2025
Nadia Rubaii	Building Capacity for Atrocity Prevention	US Department of State	34%	\$419,677	10/1/2022	9/30/2025
Valerie Imbruce	Ronald E. McNair Postbaccalaureate Achievement Program 2022-2027	US Department of Education	100%	\$1,486,130	10/1/2022	9/30/2027
			<b>Total # Credited</b>	<b>2.95</b>		
			<b>Total \$ Credited</b>	<b>\$5,363,129</b>		

## 020 Africana Studies

Titilayo Okoror	R01: NOSI: Actions to Decrease Disparities, increase Reach, Engagement in Community Supportive Sites for COVID-19 Vaccine Uptake (ADDRESS COVID-19 Vaccine Uptake)	National Institute on Minority Health & Health Disparities	45%	\$807,414	5/1/2022	4/30/2025
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			<b>Total # Credited</b>	<b>0.45</b>		
			<b>Total \$ Credited</b>	<b>\$807,414</b>		

## 020 Anthropology

BrieAnna Langlie	Agropastoral Entanglements and Social Transformations: A Microhistory of Climate Change in the Late Prehispanic Andes	National Endowment for the Humanities	100%	\$149,940	6/1/2022	5/31/2025
BrieAnna Langlie	Collaborative Research: Growing Inequality in Changing Climates: Agropastoral Strategy and Social Transformation in the Late Prehispanic Andes	National Science Foundation	100%	\$150,805	6/1/2022	5/31/2025
Carl Lipo	Resubmission: NRT: Complex Social Systems Emergence (NRT-CSSE)	National Science Foundation	6%	\$164,939	3/1/2022	2/28/2027
Carl Lipo	Nature Preserve Forest Regeneration	NYS Department of Environmental Conservation	50%	\$30,755	6/1/2022	5/31/2025
Carl Lipo	DISES: Socio-Environmental Dynamics of Emergent Inequality (SEDEI)	National Science Foundation	25%	\$399,909	9/1/2022	8/31/2027
Carl Lipo	Senior Archeological Research: Coastal Freshwater Resources and Climate Change Impacts on Rapa Nui?	National Science Foundation	75%	\$103,307	5/1/2022	4/30/2024
Carl Lipo	Climate Change Impacts on the Past and Future Coastal Freshwater Resources of Oceanic Islands: A Case Study from Rapa Nui	National Science Foundation	90%	\$267,518	9/1/2022	8/31/2026
Carmen Ferradas	Doctoral Dissertation Research: Money, Gifts and Motherhood among Indonesian Transnational Female Domestic Workers	National Science Foundation	100%	\$23,625	2/1/2021	1/31/2022
Katherine Wander	R01: NOSI: Actions to Decrease Disparities, increase Reach, Engagement in Community Supportive Sites for COVID-19 Vaccine Uptake (ADDRESS COVID-19 Vaccine Uptake)	National Institute on Minority Health & Health Disparities	45%	\$807,414	5/1/2022	4/30/2025

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Katherine Wander	Doctoral Dissertation Research: Evolutionary implications of neurodegenerative disease: Inflammation and longevity in post-WWII Guamanian ALS	National Science Foundation	100%	\$23,239	2/1/2022	1/31/2023
Katherine Wander	Does market integration cause trade-offs in role diversification and family size?	New Mexico State University	100%	\$16,947	7/1/2022	6/30/2025
Kathleen Sterling	Doctoral Dissertation Research: The Status of Queer Theories in Archaeology	National Science Foundation	100%	\$7,563	2/1/2022	7/31/2023
Rolf Quam	Doctoral Dissertation Research: Biomechanical Analysis of the Mandible in the Genus Homo: Implications for Pleistocene Human Diversity	National Science Foundation	100%	\$25,147	9/1/2022	5/31/2024
Ruth Van Dyke	Doctoral Dissertation Research: Does Chaco Rock Art Support the Pilgrimage Model?	National Science Foundation	100%	\$22,536	6/1/2022	5/31/2023
Ruth Van Dyke	Continuation -Condition Assessments and Emergency Treatment of Maintained Archaeological Sites on Chacra Mesa	National Park Service	100%	\$3,500	10/22/2022	10/21/2023
Ruth Van Dyke	Inventory and Assessment of Archaeological Resources within Chaco Culture National Historical Park Outlier Units	National Park Service	100%	\$237,619	9/15/2022	9/14/2027
			<b>Total # Credited</b>	<b>12.91</b>		
			<b>Total \$ Credited</b>	<b>\$2,434,763</b>		

## 020 Arts and Sciences Dean

Barrett Brenton	Collaborative Research: GCR: Using Convergent Modeling to Enhance Online Collective Action for Sustainable Offline Communities	National Science Foundation	17%	\$298,370	9/1/2022	8/31/2027
Barrett Brenton	NRT: Complex Social Systems Emergence (NRT-CSSE)	National Science Foundation	11%	\$329,878	3/1/2022	2/28/2027
Carl Lipo	NRT: Complex Social Systems Emergence (NRT-CSSE)	National Science Foundation	6%	\$164,939	3/1/2022	2/28/2027

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Carl Lipo	DISES: Socio-Environmental Dynamics of Emergent Inequality (SEDEI)	National Science Foundation	50%	\$799,938	9/1/2022	8/31/2027
Carl Lipo	Collaborative Research: GCR: Using Convergent Modeling to Enhance Online Collective Action for Sustainable Offline Communities	National Science Foundation	17%	\$298,370	9/1/2022	8/31/2027
David Mixter	Local governments and energy transitions in underprivileged neighborhoods - an energy consumption perspective	Environmental Protection Agency	10%	\$92,990	9/1/2022	8/31/2025
George Homsy	Local governments and energy transitions in underprivileged neighborhoods - an energy consumption perspective	Environmental Protection Agency	70%	\$650,929	9/1/2022	8/31/2025
Robert DiNapoli	NRT: Complex Social Systems Emergence (NRT-CSSE)	National Science Foundation	11%	\$329,878	3/1/2022	2/28/2027
Yuxin Wang	MultiTOX- A convergent approach for predicting chemical mixtures toxicity	Environmental Protection Agency	40%	\$299,978	7/1/2022	6/30/2025
Yuxin Wang	Evaluating the water quality impact of hydraulic fracturing in Susquehanna County PA to the surface water quality in Binghamton NY	NYS Pollution Prevention Institute	100%	\$20,000	10/1/2022	9/30/2023
Yuxin Wang	Develop effective thermal practice and adsorption method to eliminate perfluorinated substances emission during lithium-ion batteries recycling process	NYS Pollution Prevention Institute	40%	\$60,000	9/1/2022	8/31/2023
				<b>Total # Credited</b>	<b>3.71</b>	
				<b>Total \$ Credited</b>	<b>\$3,345,271</b>	

## 020 Asian American Studies

Sungdai Cho	Reinforcing the Status of Korean as a World Language	Academy of Korean Studies	100%	\$240,101	9/1/2022	8/31/2025
				<b>Total # Credited</b>	<b>1.00</b>	
				<b>Total \$ Credited</b>	<b>\$240,101</b>	

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Caitlin Light	REU Site: Early Collaborative Research Experience in Microbial Biofilm Development, Resistance, & Community Structure	National Science Foundation	90%	\$292,768	6/1/2022	5/31/2025
Claudia Marques	F31: Fellowship Support for Cody Hastings: Host Immune Response to P. aeruginosa Persister Cells	National Institutes of Health	100%	\$64,072	4/1/2022	3/31/2024
Claudia Marques	Collaborative Research: GCR: Infection-Resisting Resorbable Scaffolds for Engineering Human Tissue.	National Science Foundation	33%	\$222,750	9/1/2022	8/31/2027
Claudia Marques	Dynamic microbe-mucus interactions: Linking mucus microviscoelasticity to transport and transmission	University of New Haven	100%	\$4,127	4/1/2022	3/31/2024
Claudia Marques	Dynamic Microbe-Mucus Interactions: Linking Mucus Microviscoelasticity to Microbial Transport	University of New Haven	100%	\$4,127	4/1/2023	3/31/2025
Claudia Marques	Collaboration between Bio-Botanical Research Inc. and Binghamton University	Bio Botanical Research Incorporated	100%	\$4,082	12/1/2021	11/30/2022
David Davies	Collaborative Research: GCR: Infection-Resisting Resorbable Scaffolds for Engineering Human Tissue.	National Science Foundation	33%	\$222,750	9/1/2022	8/31/2027
Jessica Hua Meindl	MultiTOX- A convergent approach for predicting chemical mixtures toxicity	Environmental Protection Agency	30%	\$224,983	7/1/2022	6/30/2025
Jessica Hua Meindl	Develop effective thermal practice and adsorption method to eliminate perfluorinated substances emission during lithium-ion batteries recycling process	NYS Pollution Prevention Institute	30%	\$45,000	9/1/2022	8/31/2023
Jessica Hua Meindl	BII: Integrative Ecology and Neurogenetics	Texas A M University	100%	\$1,198,361	8/1/2022	7/31/2027
Karin Sauer	Fellowship for Whitney Redman: Biofilm dispersion	American Association for Advancement of Science	100%	\$60,000	10/1/2022	9/30/2023

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Karin Sauer	Hydrogel Wound Dressing for Prevention and Treatment of Biofilm Infections via Pyruvate Depletion	University of Vermont	100%	\$342,969	7/1/2022	6/30/2027
Karin Sauer	Planning Grant: Engineering Research Center for Innovative Materials and Processes for Antimicrobial Control Technologies (IMPACT)	Syracuse University	100%	\$9,471	8/24/2021	8/23/2022
Karin Sauer	K99/R00 for Whitney Redman: Elucidating phenotype, virulence, and host-pathogen interaction post biofilm dispersal and disassembly for translational application	National Institute of Allergy & Infectious Disease	100%	\$945,892	4/1/2023	3/31/2028
Karin Sauer	REU Site: Early Collaborative Research Experience in Microbial Biofilm Development, Resistance, & Community Structure	National Science Foundation	10%	\$32,530	6/1/2022	5/31/2025
Karin Sauer	Collaborative Research: GCR: Infection-Resisting Resorbable Scaffolds for Engineering Human Tissue.	National Science Foundation	34%	\$229,500	9/1/2022	8/31/2027
Kirsten Prior	CAREER: Altered Community Interactions Under Anthropogenic Range Expansions: A Biogeographical Approach to Test Drivers of Ecological Release in a Multi-trophic Community	National Science Foundation	100%	\$913,156	2/1/2022	1/31/2027
Laura Cook	The Role of the Host Microbiota in Streptococcus pyogenes Pharyngeal Infection and Carriage	National Institute of Allergy & Infectious Disease	100%	\$1,529,620	12/1/2022	11/30/2027
Laura Cook	Characterization of the regulation and role of a GBS colonization factor	National Institute of Allergy & Infectious Disease	90%	\$1,684,361	9/1/2022	8/31/2027
Laura Cook	Investigation into the regulation and role of a novel sRNA in GBS	National Institute of Allergy & Infectious Disease	100%	\$418,070	4/1/2023	3/31/2025
Laura Cook	Energy Harvesting from Gut Bacteria for Ingestible Electronics	National Science Foundation	30%	\$150,000	9/1/2022	8/31/2025
Laura Musselman	Identification of the Lipids That Comprise Lipotoxicity	National Heart Lung and Blood Institute	100%	\$1,485,696	4/1/2022	3/31/2027

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Laura Musselman	R21: Genetic contributors to longevity in lab-adapted Drosophila populations	National Institute on Aging	100%	\$353,250	7/1/2022	6/30/2024
Lindsey Swierk	REU Site: Pilot: Native Student Training in the Amazon Rainforest (NativeSTAR)	National Science Foundation	100%	\$377,886	11/1/2022	10/31/2024
Michelle Withers	Collaborative Research: A Developmental Model to Understand the Process of Instructor Implementation of Evidence-Based Teaching Practices	National Science Foundation	100%	\$62,183	1/1/2022	12/31/2024
Michelle Withers	Collaborative Research: Developing a Training Transfer Model for College STEM Instructors: A Strategy to Increase Implementation of Evidence-Based Teaching Practices	National Science Foundation	100%	\$69,369	4/1/2022	3/31/2025
Peter McKenney	Context-specific effects of Vancomycin-resistant Enterococcus faecium on commensal Clostridia	Global Probiotics Council	100%	\$50,001	7/1/2022	6/30/2023
Peter McKenney	R21: Context-specific modulation of Clostridioides difficile virulence by Vancomycin-resistant Enterococcus faecium	National Institute of Allergy & Infectious Disease	100%	\$300,320	7/1/2022	6/30/2024
Thomas Powell	CAREER: Seasonal Adaptation and the Maintenance of Standing Genetic Variation: How Geography, Ecology, and Climate Interact to Shape the Fuel for Rapid Evolution	National Science Foundation	100%	\$973,383	7/1/2022	6/30/2027
Thomas Powell	Collaborative Research: Sexual isolation in the wake of ecological adaptation and speciation: how multifaceted reproductive isolation evolves early in divergence	National Science Foundation	100%	\$398,002	7/1/2022	6/30/2026
			<b>Total # Credited</b>	<b>24.80</b>		
			<b>Total \$ Credited</b>	<b>\$12,668,679</b>		

## 020 Biomedical Engineering

Ahyeon Koh	R21: Mask-integrated Respiratory Health Monitoring	National Inst of Biomedical Imaging and Bioenginee	50%	\$212,712	7/1/2022	6/30/2024
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Ahyeon Koh	R01: Advanced 3D soft electronic cell culture system for in vitro monitoring of cardiac tissue	National Institutes of Health	50%	\$1,023,533	4/1/2023	3/31/2028
Ahyeon Koh	I-Corps: TyTen, Nanoband an Adhesive-Free Bandage	National Science Foundation	100%	\$50,000	10/1/2021	9/30/2022
Ahyeon Koh	Upcycling e-waste to e-skin	NYS Pollution Prevention Institute	100%	\$150,000	5/5/2022	5/4/2023
Fake Lu	Noninvasive MRI-based oxygen consumption mapping in multiple sclerosis	Cornell University	100%	\$65,559	4/1/2023	3/31/2028
Fake Lu	Transforming Neurosurgical Pathology To Be Rapid, Label-Free, And Digital Via Stimulated Raman Imaging Of Native Biomolecules In Fresh Brain Tumor Tissue	Pew Charitable Trusts	100%	\$300,000	8/1/2022	7/31/2026
Fake Lu	Functional magnetic susceptibility source determination for measuring oxygen consumption and myelin quantity in MS brain	Cornell University	100%	\$65,559	7/1/2022	6/30/2027
Fake Lu	R03: Developing machine learning methods for stimulated Raman images processing	National Institutes of Health	50%	\$75,080	7/1/2022	6/30/2024
Fake Lu	CAREER: Vibrational Ptychography for Ultrasensitive Phase Imaging of Micro Lipid Droplet Lipogenesis in Ovarian Cancer	National Science Foundation	100%	\$500,001	2/1/2022	1/31/2027
Gretchen Mahler	AHA Fellowship Support for Fatemeh Salemizadehparizi	American Heart Association Incorporated	100%	\$64,072	1/1/2022	12/31/2023
Gretchen Mahler	U-RISE at Binghamton University	National Institutes of Health	33%	\$1,018,502	4/1/2023	3/31/2028
Gretchen Mahler	IGE: Enhancing Students' Knowledge-Skills-Abilities Variety via Exploration of the Orthogonal Curricular Matrix	National Science Foundation	25%	\$124,718	10/1/2022	9/30/2025
Guy German	SOW 2: Evaluation of Skin Tightening Formulations	Estee Lauder Corporation	100%	\$65,000	6/1/2022	5/31/2023



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Guy German	Measuring and Mapping the Multiscale Anisotropy and Hyperviscoelasticity of Human White Brain Matter	National Science Foundation	50%	\$236,053	1/1/2023	12/31/2025
Kaiming Ye	R21: Model the in vivo-mimetic 3D Tumor Microenvironment to Decode Impaired Metabolic Crosstalk Induced Metastasis in Pancreatic Cancer	National Cancer Institute	80%	\$526,650	6/1/2022	5/31/2025
Kaiming Ye	Keck Foundation: Preproposal: Coordinate multiorgan co-development to generate intra-islet vascularized islets from iPSCs	W M Keck Foundation	50%	\$430,546	9/1/2022	8/31/2026
Kaiming Ye	Model the In vivo-mimetic 3D Tumor Microenvironment to Decode Impaired Metabolic Crosstalk Induced Metastasis in Pancreatic Cancer	US Army Research Office	80%	\$560,401	4/1/2022	3/31/2025
Kaiming Ye	Reducing Food Waste by Converting It into Ecofriendly Biodegradable Plastics	NYS Pollution Prevention Institute	50%	\$75,000	9/1/2022	8/31/2023
Kaiming Ye	Collaborative Research: RECODE: Coordinate endothelium and pancreatic co-development to generate intra-islet vascularized human islets from iPSCs	National Science Foundation	50%	\$750,000	10/1/2022	9/30/2026
Kaiming Ye	MRI: Acquisition of A Cryo Focused Ion Beam Scanning Electron Microscope (Cryo-SEM) for Life Science and Materials Science Research and Training at SUNY Binghamton	National Science Foundation	45%	\$650,810	8/1/2022	7/31/2025
Kaiming Ye	REU Site: Undergraduate Research Experience in Biomedical Translational Science and Technology Development	National Science Foundation	100%	\$405,623	4/1/2022	3/31/2025
Kaiming Ye	Extracellular Matrix Proteins as Signaling Molecules Regulate Endocrine Development	National Institutes of Health	25%	\$107,938	12/1/2022	11/30/2024
Kaiming Ye	Real-time Detecting SARS-Cov-2 in an Enclosed Space to Stop Virus Spreading	National Institute of Standards and Technology	40%	\$999,019	11/1/2021	10/31/2023

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Kaiming Ye	Cell Mechanosensation and Cell Size Regulation	Johns Hopkins University	100%	\$87,964	7/1/2023	6/30/2028
Kaiming Ye	Developing novel diabetes therapeutics imprinting on functional gut-islet connection with models for the improved efficiency of drug discovery	Indiana University	50%	\$157,947	10/1/2022	9/30/2026
Kaiming Ye	National Consortium for Intelligent Biomanufacturing (NCIB)	National Institute of Standards and Technology	100%	\$300,000	11/1/2021	10/31/2023
Sha Jin	Extracellular Matrix Proteins as Signaling Molecules Regulate Endocrine Development	National Institutes of Health	75%	\$323,813	12/1/2022	11/30/2024
Sha Jin	Keck Foundation: Preproposal: Coordinate multiorgan co-development to generate intra-islet vascularized islets from iPSCs	W M Keck Foundation	50%	\$430,546	9/1/2022	8/31/2026
Sha Jin	Reducing Food Waste by Converting It into Ecofriendly Biodegradable Plastics	NYS Pollution Prevention Institute	50%	\$75,000	9/1/2022	8/31/2023
Sha Jin	Collaborative Research: RECODE: Coordinate endothelium and pancreatic co-development to generate intra-islet vascularized human islets from iPSCs	National Science Foundation	50%	\$750,000	10/1/2022	9/30/2026
Sha Jin	Real-time Detecting SARS-Cov-2 in an Enclosed Space to Stop Virus Spreading	National Institute of Standards and Technology	20%	\$499,509	11/1/2021	10/31/2023
Sha Jin	MRI: Acquisition of A Cryo Focused Ion Beam Scanning Electron Microscope (Cryo-SEM) for Life Science and Materials Science Research and Training at SUNY Binghamton	National Science Foundation	45%	\$650,810	8/1/2022	7/31/2025
Tracy Hookway	AHA Fellowship Support for Natalie Weiss	American Heart Association Incorporated	100%	\$64,072	1/1/2022	12/31/2023
Tracy Hookway	R01: Advanced 3D soft electronic cell culture system for in vitro monitoring of cardiac tissue	National Institutes of Health	50%	\$1,023,533	4/1/2023	3/31/2028

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Ying Wang	Developing novel diabetes therapeutics impringing on functional gut-islet connection with models for the improved efficiency of drug discovery	Indiana University	50%	\$157,947	10/1/2022	9/30/2026
Ying Wang	R21: Model the in vivo-mimetic 3D Tumor Microenvironment to Decode Impaired Metabolic Crosstalk Induced Metastasis in Pancreatic Cancer	National Cancer Institute	20%	\$131,662	6/1/2022	5/31/2025
Ying Wang	Model the In vivo-mimetic 3D Tumor Microenvironment to Decode Impaired Metabolic Crosstalk Induced Metastasis in Pancreatic Cancer	US Army Research Office	20%	\$140,100	4/1/2022	3/31/2025
Yuan Wan	Enumeration and Retrieval of Circulating Tumor Cells with Recombinant Adenoviruses for Liquid Biopsy of Lung Cancer	National Institutes of Health	100%	\$3,864,137	4/1/2023	3/31/2028

**Total # Credited** **24.58**

**Total \$ Credited** **\$17,113,813**

### **020 CCPA Deans Office**

LuAnn Kida	Strengthening Evaluation of BUCS College Student Impact	United Way of Broome County Inc	100%	\$25,000	7/1/2022	6/30/2023
LuAnn Kida	BUCS Early Childhood Literacy Pilot	United Way of Broome County Inc	100%	\$120,000	7/1/2022	6/30/2024

**Total # Credited** **2.00**

**Total \$ Credited** **\$145,000**

### **020 CCPA Human Development**

Leo Wilton	The Influence of Multi-Level Stigma on Preferences and Patterns of PrEP Use among Black MSM	Yale University	100%	\$325,592	4/1/2022	3/31/2025
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**Total # Credited**      **1.00**  
**Total \$ Credited**      **\$325,592**

**020 CCPA Public Administration**

George Homsy	Nature Preserve Forest Regeneration	NYS Department of Environmental Conservation	50%	\$30,755	6/1/2022	5/31/2025
Kristina Lambright	Local governments and energy transitions in underprivileged neighborhoods - an energy consumption perspective	Environmental Protection Agency	10%	\$92,990	9/1/2022	8/31/2025
Matthew Uttermark	Local governments and energy transitions in underprivileged neighborhoods - an energy consumption perspective	Environmental Protection Agency	10%	\$92,990	9/1/2022	8/31/2025
Pamela Mischen	NRT: Complex Social Systems Emergence (NRT-CSSE)	National Science Foundation	11%	\$329,878	3/1/2022	2/28/2027
Pamela Mischen	Collaborative Research: GCR: Using Convergent Modeling to Enhance Online Collective Action for Sustainable Offline Communities	National Science Foundation	17%	\$298,370	9/1/2022	8/31/2027

**Total # Credited**      **0.98**  
**Total \$ Credited**      **\$844,983**

**020 CCPA Social Work**

Bronsstein, Laura	Binghamton University Community Schools 2021	Broome County Department of Mental Health	100%	\$148,986	1/1/2021	12/31/2021
Dalhee Yoon	R03: Longitudinal pathways linking child maltreatment, family/peer substance use, and adolescent substance use	Eunice Kennedy Shriver National Institute of Child Health & Human Dev	100%	\$166,319	9/1/2022	8/31/2024
Jacqueline McGinley	COVID-19: How We Die Alone: A Content Analysis of Facility Visitation Policies During the Pandemic	Borchard Center on Law and Aging	100%	\$20,000	6/1/2022	5/31/2023

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Stacey Shipe	Education Personnel and CPS Referrals: Examining Race, Geography, & Disparity Ratios	Department of Health and Human Services	100%	\$100,000	9/30/2022	9/29/2024
			<b>Total # Credited</b>	<b>4.00</b>		
			<b>Total \$ Credited</b>	<b>\$435,305</b>		

### 020 CCPA Teaching Learning Educ Leadership

Amber Simpson	CAREER: Co-Mathineering: Understanding and Advancing Child and Family Engagement in Mathematics Through Engineering in Out-of-School Environments	National Science Foundation	100%	\$812,140	7/1/2022	6/30/2027
Amber Simpson	Binghamton University GenCyber Teacher Program	National Security Agency	25%	\$34,154	6/1/2022	5/31/2024
Amy Humphrey	Liberty Partnership Program	NYS Education Department	100%	\$594,000	9/1/2022	8/31/2027
Amy Humphrey	Mothers & Babies Perinatal Network is funded by NYS State DOH for the Personal Responsibility Education Program (PREP)	Mothers and Babies Perinatal Network of South Cent	100%	\$20,000	7/1/2022	6/30/2023
Bogum Yoon	Critical Global Literacy: Leveraging Immigrant Students' Cultural Knowledge as Resources	Spencer Foundation	100%	\$50,000	1/1/2023	12/31/2025
Hoe Kyeong Kim	A Study on Korean Bridging Inferences Marked by Korean Demonstrative 'ku'	Academy of Korean Studies	100%	\$21,000	2/1/2022	1/31/2023
Nicole Fenty	Pre-coding and the early childhood curriculum	Spencer Foundation	100%	\$398,020	8/1/2022	7/31/2025
			<b>Total # Credited</b>	<b>6.25</b>		
			<b>Total \$ Credited</b>	<b>\$1,929,314</b>		

### 020 Chemistry

Brian Callahan	Discovery and Anti-Tumor Activity of Molecular Agents Targeting Hedgehog Protein Autoprocessing	National Cancer Institute	100%	\$415,790	9/1/2022	8/31/2024
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<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Brian Callahan	R01 Renewal: Structural Mechanisms and Drug Discovery for Hedgehog Protein Autoprocessing in Cancer	Rensselaer Polytechnic Institute	100%	\$1,258,250	9/1/2022	8/31/2027
Christof Grewer	Substrate Specificity Determinants in Nutrient Solute Carrier Transporters	National Institutes of Health	100%	\$678,650	4/1/2023	3/31/2028
Chuan Jian Zhong	Real-time Detecting SARS-Cov-2 in an Enclosed Space to Stop Virus Spreading	National Institute of Standards and Technology	20%	\$499,509	11/1/2021	10/31/2023
Chuan Jian Zhong	High-Performance Three-Way Catalysts with Reduced Platinum Group Metal Amount and Reaction Temperatures for Natural Gas Engines	US Department of Energy	50%	\$814,525	1/1/2022	12/31/2024
Chuan Jian Zhong	High-Performance Catalysts with Reduced Platinum Group Metal Amount for Natural Gas Engines and Clean Energy Systems	NYS Pollution Prevention Institute	100%	\$150,001	8/15/2022	8/14/2023
Chuan Jian Zhong	Resubmission - PFI: AIR-RP: Scale-up Preparation of Highly-Durable Nanoalloy Catalysts for Manufacturing MEAs in Fuel Cells	National Science Foundation	100%	\$550,000	1/1/2022	12/31/2024
Chuan Jian Zhong	JPC-5: Integrative Impedance-Based Thin Film Detector for Operational Vapor Sensing"	Geneva Foundation	100%	\$750,000	9/1/2022	8/31/2025
Chuan Jian Zhong	NSF EQUIPMENT SUPPLEMENT: CAS: Role of Dynamic Surface/Subsurface Oxygenation of Noble Metal/3d-Transition Metal Alloy Nanoparticles in Oxidation Reactions	National Science Foundation	100%	\$33,773	5/1/2022	4/30/2023
Eriks Rozners	NIH SBIR Phase-I: Acidosis-activated Prodrug of Doxorubicin for Targeted Cancer Chemotherapy (subaward)	Arctic Moth Therapeutics	5%	\$1,200	6/1/2022	5/31/2023
Eriks Rozners	Resubmission - NSF SBIR PHASE I: pH-Sensitive Prodrug for Targeted Cancer Chemotherapy	Arctic Moth Therapeutics	5%	\$807	6/1/2022	5/31/2023
Eriks Rozners	Resubmission-NIH SBIR Phase-I: Acidosis-activated Prodrug of Doxorubicin for Targeted Cancer Chemotherapy (subaward)	Arctic Moth Therapeutics	5%	\$1,200	3/21/2022	3/20/2023

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Eriks Rozners	2022 Go Green Institute at Binghamton University	Binghamton City School District	100%	\$75,000	4/1/2022	9/30/2022
Eriks Rozners	Equipment Supplement: Chemical Approaches to Control the Function of Regulatory RNAs	National Institute of General Medical Sciences	100%	\$100,980	9/1/2022	8/31/2023
Eriks Rozners	NSF: Dear Colleagues Supplement - Collaborative Research: Nucleobase-Modified Peptide Nucleic Acid (PNA) for Sequence Selective Triple-Helical Recognition of Non-Coding Ribonucleic Acid (RNA)	National Science Foundation	100%	\$19,107	8/1/2019	7/31/2020
Hao Liu	ARMY STTR Phase 1: Achieving Elevated Energy Density Batteries Using Lithium-metal Anodes and Inorganic Liquid Electrolytes	New Dominion Enterprises	100%	\$53,739	2/1/2022	7/31/2022
Hao Liu	Develop effective thermal practice and adsorption method to eliminate perfluorinated substances emission during lithium-ion batteries recycling process	NYS Pollution Prevention Institute	30%	\$45,000	9/1/2022	8/31/2023
Hao Liu	CAREER: Enabling High-performance Na-ion Battery Cathodes Via Structural Pillaring	National Science Foundation	100%	\$613,723	2/1/2022	1/31/2027
Hao Liu	Understanding the structural and electronic effects of heterogeneous catalysis for aerobic oxidative desulfurization	American Chemical Society	100%	\$110,000	9/1/2022	8/31/2024
Hao Liu	High-Performance Li-Ion Battery Utilizing Novel Solid-State Electrolyte and Li/Carbon Composite Anode	NATRION	100%	\$60,000	12/15/2021	12/14/2022
Huiyuan Guo	Mapping pH in Water-in-oil Emulsion Droplets	American Chemical Society	100%	\$110,000	1/1/2023	12/31/2024
Huiyuan Guo	Real-time Monitoring of Infectious Viruses in the Air to Unlock the Next Generation of Epidemiology	Arnold and Mabel Beckman Foundation	100%	\$300,000	9/1/2022	8/31/2024
Jennifer Hirschi	ACS PRF: Mechanistic Analysis of Electrophotocatalysis	American Chemical Society	100%	\$110,000	9/1/2022	8/31/2024

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Jennifer Hirschi	R35 Mechanistic Investigation into Modern Catalytic Reactions	National Institute of General Medical Sciences	100%	\$1,934,000	7/1/2022	6/30/2027
Jennifer Hirschi	R01 Mechanistic Investigation into Photoredox Catalysis	National Institute of General Medical Sciences	100%	\$1,934,000	7/1/2022	6/30/2027
Jennifer Hirschi	Probing the Free Energy Landscape of Complex Catalytic Reactions	National Institute of General Medical Sciences	100%	\$1,945,400	9/1/2022	8/31/2027
Jennifer Hirschi	NSF - CHE: Mechanism and Inhibition of Enzymes of the Methionine Salvage Pathway	National Science Foundation	100%	\$34,326	8/1/2023	7/31/2025
Jiye Fang	ExpandQISE: Track 2: Diversifying Research and Education on Quantum Information with Moiré Patterns and 2D Qubits	National Science Foundation	13%	\$625,000	9/1/2022	8/31/2027
Jiye Fang	Quantum Dot Enabled Enhancement of Organic Solar Cells	US Department of Energy	40%	\$120,000	8/1/2022	7/31/2023
Jiye Fang	Development of Bifunctional OXZEO Catalysts for Selectivity Improvement of High-Value Hydrocarbons Converted from Syngas Directly	American Chemical Society	100%	\$110,000	9/1/2022	8/31/2024
John Swierk	R35 : Kinetically-Driven Design of Cooperative Hydrogen Atom Transfer (cHAT) Reactions	National Institute of General Medical Sciences	100%	\$1,913,567	7/1/2022	6/30/2027
John Swierk	Double Layer Effects On Electron Transfer	Camille and Henry Dreyfus Foundation Incorporated	100%	\$100,000	8/1/2022	7/31/2027
Julien Panetier	R35: Computational Modeling of Carbon Monoxide Dehydrogenase Model Systems for Carbon Dioxide Fixation	National Institute of General Medical Sciences	100%	\$1,859,900	7/1/2022	6/30/2027
Julien Panetier	CAREER: CAS: Computational Modeling of Carbon Monoxide Dehydrogenase Model Systems for Carbon Dioxide Fixation	National Science Foundation	100%	\$477,550	9/1/2022	8/31/2027
Julien Panetier	Nitrogen-Coupled Carbon Dioxide Conversion to Methylamine: Molecular Level Understanding and Tailoring of the Electrocatalysis	Yale University	100%	\$150,000	6/1/2022	5/31/2025



<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
M Stanley Whittingham	New Energy NY	Economic Development Administration	50%	\$250,000	1/1/2022	12/31/2023
M Stanley Whittingham	MRI: Acquisition of A Cryo Focused Ion Beam Scanning Electron Microscope (Cryo-SEM) for Life Science and Materials Science Research and Training at SUNY Binghamton	National Science Foundation	10%	\$144,624	8/1/2022	7/31/2025
M Stanley Whittingham	BATTERY500 Consortium: Stability of High Energy Density Lithium Batteries - Keystone Project 1	Pacific Northwest National Laboratory	100%	\$2,000,000	10/1/2021	9/30/2026
Ming An	Resubmission-NIH SBIR Phase-I: Acidosis-activated Prodrug of Doxorubicin for Targeted Cancer Chemotherapy (subaward)	Arctic Moth Therapeutics	95%	\$22,791	3/21/2022	3/20/2023
Ming An	NIH SBIR Phase-I: Acidosis-activated Prodrug of Doxorubicin for Targeted Cancer Chemotherapy (subaward)	Arctic Moth Therapeutics	95%	\$22,791	6/1/2022	5/31/2023
Ming An	Resubmission - NSF SBIR PHASE I: pH-Sensitive Prodrug for Targeted Cancer Chemotherapy	Arctic Moth Therapeutics	95%	\$15,333	6/1/2022	5/31/2023
Puja Goyal	Agonist Efficiency	University at Buffalo	100%	\$517,840	12/1/2022	11/30/2026
Puja Goyal	CAREER: Computational Study of Crystalline Quinones as Electrode Material in Organic Batteries	National Science Foundation	100%	\$670,907	2/1/2022	1/31/2027
Sozanne Solmaz	S10 - A Cryogenic Transmission Electron Microscope for Structural Biology	National Institute of General Medical Sciences	100%	\$1,997,377	4/1/2023	3/31/2024
Wei Qiang	R35: Structural Basis of Pathologically Relevant Beta-Amyloid Aggregation: Membrane Disruption and Fibrillar Polymorphisms	National Institute of General Medical Sciences	100%	\$1,997,086	4/1/2023	3/31/2028
Wei Qiang	RESUBMISSION R01 Cross Seeding Between Beta-Amyloid Fibrillar Variants: A Pathologically Relevant Event that Modulates the Amyloid Molecular Polymorphisms and Neuronal Toxicity	National Institutes of Health	75%	\$1,567,944	4/1/2022	3/31/2027

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
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**Total # Credited**      **37.88**  
**Total \$ Credited**      **\$27,161,689**

**020 Computer Science**

Aravind Prakash	Binghamton University Scholarship for Service: Expanding and Strengthening the National Cybersecurity Workforce	National Science Foundation	20%	\$496,539	3/1/2022	2/28/2027
Dmitry Ponomarev	REU Supplement for Collaborative Research: SaTC: CORE: Medium: Leakage-Free Isolated Execution: Architectures and Security Models	National Science Foundation	100%	\$16,000	5/1/2022	4/30/2023
Dmitry Ponomarev	Binghamton University Scholarship for Service: Expanding and Strengthening the National Cybersecurity Workforce	National Science Foundation	20%	\$496,539	3/1/2022	2/28/2027
Guanhua Yan	7316%	Griffiss Institute	10%	\$85,000	2/1/2022	1/31/2025
Guanhua Yan	Binghamton University GenCyber Teacher Program	National Security Agency	25%	\$34,154	6/1/2022	5/31/2024
Hui Lu	CAREER: Rethinking Virtualization in Cloud-Native Systems	National Science Foundation	100%	\$512,407	1/1/2022	12/31/2026
Jeremy Blackburn	Collaborative Research: GCR: Using Convergent Modeling to Enhance Online Collective Action for Sustainable Offline Communities	National Science Foundation	17%	\$298,370	9/1/2022	8/31/2027
Kanad Ghose	NVIDIA Phase IV Testing Agreement	NVIDIA Corporation	50%	\$25,001	1/25/2022	1/24/2023
Kanad Ghose	I/UCRC Phase III University of TX Arlington: Center for Energy-Smart Electronic Systems (ES2)	University of Texas at Arlington	50%	\$37,500	8/1/2022	7/31/2027
Kanad Ghose	I/UCRC Phase III Villanova University: Center for Energy-Smart Electronic Systems (ES2)	Villanova University	50%	\$37,500	8/1/2022	7/31/2027

<b><i>Proposal PI</i></b>	<b><i>Title</i></b>	<b><i>Sponsor Name</i></b>	<b><i>% Credited to PI</i></b>	<b><i>\$ Credited</i></b>	<b><i>Requested Start Date</i></b>	<b><i>Requested End Date</i></b>
Kanad Ghose	Center for Rapid Heterogeneous Integration and Enabling Technologies (Rapid HI)--(Sub-in Purdue)	Purdue University	25%	\$1,300,000	1/1/2023	12/31/2027
Kanad Ghose	NVIDIA Phase III Testing Agreement	NVIDIA Corporation	50%	\$25,001	11/3/2021	2/2/2022
Kanad Ghose	Liquid to Air Data Center Cooling Lab Phase II	NVIDIA Corporation	50%	\$25,000	7/8/2021	1/7/2022
Kanad Ghose	Collaborative Research: CNS Core: Large: Systems and Verifiable Metrics for Sustainable Data Centers	National Science Foundation	50%	\$333,010	10/1/2022	9/30/2027
Kanad Ghose	NYSTAR Request for JUMP: Center for Rapid Heterogeneous Integration and Enabling Technologies (Rapid HI)	Empire State Development Corp	25%	\$250,000	1/1/2023	12/31/2027
Kanad Ghose	IUCRC Phase III Binghamton University: Center for Energy-Smart Electronic Systems (ES2)	National Science Foundation	50%	\$125,011	8/1/2022	7/31/2027
Kartik Gopalan	Binghamton University Scholarship for Service: Expanding and Strengthening the National Cybersecurity Workforce	National Science Foundation	20%	\$496,539	3/1/2022	2/28/2027
Kenneth Chiu	Deep Learning for Control of Biomass Boilers	University of Rochester	100%	\$60,000	9/1/2022	8/31/2023
Kenneth Chiu	R03: Developing machine learning methods for stimulated Raman images processing	National Institutes of Health	50%	\$75,080	7/1/2022	6/30/2024
Kenneth Chiu	ExpandQISE: Track 2: Diversifying Research and Education on Quantum Information with Moir? Patterns and 2D Qubits	National Science Foundation	13%	\$625,000	9/1/2022	8/31/2027
Kyoung-Don Kang	R21: Intelligent mHealth for Real-Time Depression Detection, Prediction, and Interventions	National Institute of Mental Health	50%	\$202,195	7/1/2022	6/30/2024
Lijun Yin	Collaborative Proposal: SaTC: Frontiers: Understanding and Combating AI Generated Misinformation in Society	National Science Foundation	100%	\$999,818	7/1/2022	6/30/2027

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Ping Yang	CybER: Northeast Institute of Research and Training in Cyber and Electromagnetic Spectrum	Griffiss Institute	40%	\$339,999	2/1/2022	1/31/2025
Ping Yang	Binghamton University Scholarship for Service: Expanding and Strengthening the National Cybersecurity Workforce	National Science Foundation	20%	\$496,539	3/1/2022	2/28/2027
Ping Yang	Binghamton University GenCyber Teacher Program	National Security Agency	50%	\$68,308	6/1/2022	5/31/2024
Seunghee Shin	Research on CPU vulnerability detection and validation_2021	Korea University	100%	\$33,760	1/1/2021	12/31/2021
Seunghee Shin	Research on CPU vulnerability detection and validation_2022	Korea University	100%	\$39,393	1/1/2022	12/31/2022
Seunghee Shin	CAREER: Hardware/Software Co-design for Serverless Computing	National Science Foundation	100%	\$500,000	9/1/2022	8/31/2027
Shiqi Zhang	CAREER: Grounded Task and Motion Planning for Robot Long-term Autonomy	National Science Foundation	100%	\$550,623	6/1/2022	5/31/2027
Shiqi Zhang	Collaborative Research: NRI: Persuasive Robot Interaction that is Spatially Aware	National Science Foundation	100%	\$474,847	10/1/2022	9/30/2026
Shiqi Zhang	VAPSTAR: Visually Augmented Planning with Simultaneous Task Allocation for Robots in Warehouses	Raymond Corporation	100%	\$342,591	1/1/2022	12/31/2022
Weiyang Dai	R21: Prediction and retrieval of human cortical folding patterns	Eunice Kennedy Shriver National Institute of Child Health & Human Dev	50%	\$198,661	7/1/2022	6/30/2024
Weiyang Dai	R01: The Effect of Meditation on Neurocognitive Aging	National Institute on Aging	100%	\$2,388,175	9/1/2022	8/31/2027
Yifan Zhang	REU Supplement to CAREER: Enabling Edge-hosted Private Services via Unikernel-based Lightweight Virtualization	National Science Foundation	100%	\$16,000	5/1/2022	4/30/2023

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Yu David Liu	Collaborative Research: CNS Core: Small: Principled Energy Management via PL/OS Co-design	National Science Foundation	100%	\$298,710	7/1/2022	6/30/2025
Yu David Liu	Collaborative Research: CNS Core: Large: Systems and Verifiable Metrics for Sustainable Data Centers	National Science Foundation	50%	\$333,010	10/1/2022	9/30/2027
			<b>Total # Credited</b>	<b>21.34</b>		
			<b>Total \$ Credited</b>	<b>\$12,636,279</b>		

### 020 DSON/Physical Therapy

Suzanne OBrien	Remote Balance Assessment and Intervention Among Older Adults With and Without a History of Falls	National Institutes of Health	50%	\$215,875	9/1/2022	8/31/2024
Vipul Lugade	Remote Balance Assessment and Intervention Among Older Adults With and Without a History of Falls	National Institutes of Health	50%	\$215,875	9/1/2022	8/31/2024
Vipul Lugade	Integrating Multiple Outcomes to Enhance Objective Diagnosis, Prognosis, and Remote Recovery Monitoring for Mild Traumatic Brain Injury	University of Colorado	100%	\$188,400	10/1/2022	9/30/2024
Vipul Lugade	Neuromuscular and Dual-Task Training to Reduce Musculoskeletal Injuries after Mild Traumatic Brain Injury	University of Colorado	100%	\$282,600	10/1/2022	9/30/2025
			<b>Total # Credited</b>	<b>3.00</b>		
			<b>Total \$ Credited</b>	<b>\$902,750</b>		

### 020 DSON/Speech Language Pathology

Rodney Gabel	GiGi's Playhouse in Southern Tier	GiGi's Playhouse	100%	\$18,000	1/10/2022	1/9/2023
Rodney Gabel	Partnership with Newark Valley Central School District	Newark Valley Central School District	100%	\$14,200	1/17/2022	1/16/2023

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
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**Total # Credited**      **2.00**  
**Total \$ Credited**      **\$32,200**

**020 Economics**

Andreas Pape	IGE: Enhancing Students' Knowledge-Skills-Abilities Variety via Exploration of the Orthogonal Curricular Matrix	National Science Foundation	25%	\$124,718	10/1/2022	9/30/2025
Andreas Pape	Collaborative Research: GCR: Using Convergent Modeling to Enhance Online Collective Action for Sustainable Offline Communities	National Science Foundation	18%	\$316,454	9/1/2022	8/31/2027
Andreas Pape	NRT: Complex Social Systems Emergence (NRT-CSSE)	National Science Foundation	12%	\$359,867	3/1/2022	2/28/2027
Jonathan Scott	Collaborative Research: SAI-R: Infrastructure Capacity Constraints and the Social Cost of Natural Gas Flaring	National Science Foundation	100%	\$288,823	2/1/2023	1/31/2025
Neha Khanna	Excellence in Research: Environmental Justice and the Multigenerational Persistence of Environmental Exposure	North Carolina Agricultural and Technical State University	100%	\$153,818	1/1/2022	12/31/2023

**Total # Credited**      **2.55**  
**Total \$ Credited**      **\$1,243,679**

**020 Electrical and Computer Engineering**

David Klotzkin	Optimization of Epitaxial Structures For Lidar Applications	Best Epitaxy Manufacturing Company Limited	100%	\$60,001	7/1/2022	6/30/2023
David Klotzkin	Photon-Photon Resonance Laser Bandwidth Enhancement with a Silicon Photonic Platform	National Science Foundation	100%	\$416,963	9/1/2022	8/31/2025
David Klotzkin	ExpandQISE: Track 2: Diversifying Research and Education on Quantum Information with Moir? Patterns and 2D Qubits	National Science Foundation	13%	\$625,000	9/1/2022	8/31/2027

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
David Klotzkin	Modeling-based Design of Photon-Photon Resonance and Detuned Loading Device for Ultrahigh Bandwidths	Source Photonics Incorporated	100%	\$15,000	5/15/2022	5/14/2023
David Klotzkin	Mitigating Ion Migration for Long-term Stability of Perovskite Solar Cells	US Department of Energy	20%	\$60,000	8/1/2022	7/31/2023
Douglas Summerville	CyBER: Northeast Institute of Research and Training in Cyber and Electromagnetic Spectrum	Griffiss Institute	40%	\$339,999	2/1/2022	1/31/2025
Jian Li	RINGS: Resilient Edge Networks with Data-driven Model-based Learning	New York University	100%	\$249,281	1/1/2022	12/31/2024
Jian Li	RINGS: Resiliently and Intelligently Connecting Existing IoT Devices with NextG Networked Systems	University of Maryland Baltimore County	100%	\$435,228	1/1/2022	12/31/2024
Jian Li	Collaborative Research: III: Small: Critical Learning Periods-aware Robust Federated Learning Systems	National Science Foundation	100%	\$207,499	1/1/2023	12/31/2025
Jian Li	Collaborative Research: CNS Core: Small: A Learning Framework for Dynamic Edge Caching: Non-Stationarity, Bounds and Domain-Knowledge	National Science Foundation	100%	\$300,000	10/1/2022	9/30/2025
Ning Zhou	Development of Day-Ahead Forecast Models for Solar PV using Artificial Intelligence Approaches	Vellore Institute of Technology	100%	\$12,054	7/1/2022	6/30/2023
Ning Zhou	Development of Trending Forecast Models for EV/Heat Pump/Solar PV in Power Systems using Data-Driven Approaches	Bigwood Systems Incorporated	100%	\$119,763	9/1/2021	11/30/2022
Pritam Das	Technology to Integrate Solar Generation with Energy Storage System and/or Electric Vehicle Charging	Mallika Ashwin Maya	100%	\$65,223	6/27/2022	6/26/2023

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Pritam Das	SBIR Phase II: Battery Energy Storage System (BESS) with three phase Grid Integrated Inverter using 3D printed Magnetics components with Nanocrystalline soft magnetic material	Mallika Ashwin Maya	55%	\$201,667	8/22/2022	8/21/2024
Pritam Das	CAREER: MBTR Converter Based Solid State Transformers (SST): A Novel Approach to High-Performance Power Supplies	National Science Foundation	100%	\$527,400	2/1/2022	1/31/2027
Pritam Das	Single Resonant High Frequency Stage Multi Channel LED Driver: A novel concept for high efficiency, long lifetime Drivers for solid state lighting	National Science Foundation	100%	\$339,363	5/1/2022	4/30/2025
Seokheun Choi	Energy Harvesting from Gut Bacteria for Ingestible Electronics	National Science Foundation	70%	\$349,999	9/1/2022	8/31/2025
Seokheun Choi	Integrated Paperfluidotronics for Internet of Disposable Things	National Science Foundation	100%	\$449,999	9/1/2022	8/31/2025
Tara Dhakal	MRI: Acquisition of Zeiss Xradia 3D X-Ray Microscope for Support of Research and Education at Binghamton University	National Science Foundation	33%	\$328,548	9/1/2022	8/31/2023
Tara Dhakal	Highly Stable and Efficient Lead Free Perovskite Solar Cell	US Department of Energy	70%	\$210,000	8/1/2022	7/31/2023
Tara Dhakal	Mitigating Ion Migration for Long-term Stability of Perovskite Solar Cells	US Department of Energy	40%	\$120,000	8/1/2022	7/31/2023
Tara Dhakal	Coating ZnO-SiO <sub>2</sub> -TiO <sub>2</sub> Nanolaminates Using ALD System	SunDensity	100%	\$95,816	8/24/2021	8/23/2022
Tara Dhakal	ExpandQISE: Track 2: Diversifying Research and Education on Quantum Information with Moiré Patterns and 2D Qubits	National Science Foundation	13%	\$625,000	9/1/2022	8/31/2027
Tara Dhakal	SBIR Phase IIA: Reduced Environmental Controls in Perovskite Solar Cell Manufacturing Enabled by Vacuum-Deposited Gas Barrier Coatings	GVD Corporation	100%	\$155,000	8/22/2022	8/21/2024



<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Tara Dhakal	SPRINT Supplement: PFI-TT: Next Generation High Energy Storage, Light Weight Capacitors	National Science Foundation	100%	\$49,999	1/1/2023	12/31/2023
Wenfeng Zhao	Unveiling the Mixed-Signal Chipset Side-Channel Vulnerabilities	Facebook Incorporated	100%	\$70,139	10/1/2022	9/30/2023
Wenfeng Zhao	Scaling Up Wireless Neural Recordings Beyond 1,000 Channels	National Eye Institute	100%	\$586,960	2/1/2023	1/31/2026
Wenfeng Zhao	SaTC: Core: Small: Foundations of In Memory Computing Hardware Security: Cryptographic Algorithm Acceleration, Side-Channel Vulnerabilities and Countermeasure	National Science Foundation	100%	\$595,002	6/1/2022	5/31/2025
Wenfeng Zhao	Understanding and Securing the Analog-to-Digital Converters Side-Channel Vulnerabilities	Semiconductor Research Corporation	100%	\$269,997	10/1/2022	9/30/2025
Wenfeng Zhao	Memory Compiler 2.0:In-Memory-Computing System Exploration via Hardware and Software Co-Design and Co-Compilation for In- Memory Data Processing and Analytics	US Department of Energy	100%	\$750,000	8/1/2022	7/31/2027
Xiaohua Li	SaTC: CORE: Small: DyFENSE: Secure Dynamic FEderated Network Slicing at the Edge	National Science Foundation	50%	\$250,000	5/15/2022	5/14/2025
Yu Chen	Binghamton University Scholarship for Service: Expanding and Strengthening the National Cybersecurity Workforce	National Science Foundation	20%	\$496,539	3/1/2022	2/28/2027
Yu Chen	RINGS: Development of Intelligent Reliability Control Technology (Direct) for the Hyper-connected/Multi-dimensional Future Communication Infrastructure	University of Missouri-Kansas City	100%	\$349,999	2/1/2022	1/31/2025
Yu Chen	Lightweight Edge AI Sensors for Ground Vehicles Health Monitoring	SWR Technology Incorporated	100%	\$75,224	6/1/2022	5/31/2023
Yu Chen	Collaborative Research: SaTC: CORE: Medium: Human-Centric Visual Privacy for Legacy and Future Drones	National Science Foundation	100%	\$324,153	7/1/2022	6/30/2025

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Yu Chen	EAGER: SaTC: CORE: Small: Decentralized Data Assurance by Fair Proof of Work Consensus Federated Ledgers	National Science Foundation	100%	\$100,000	10/1/2021	9/30/2022
Yu Chen	ROBOT: Resilience Oriented Blockchain Operational Transactor for Urban Air Mobility Networks	Intelligent Fusion Technology Incorporated	100%	\$60,000	6/1/2022	5/31/2023
Yu Chen	CybER: Northeast Institute of Research and Training in Cyber and Electromagnetic Spectrum	Griffiss Institute	10%	\$85,000	2/1/2022	1/31/2025
Yu Chen	SaTC: CORE: Small: DyFENSE: Secure Dynamic FEderated Network Slicing at the Edge	National Science Foundation	50%	\$250,000	5/15/2022	5/14/2025
Ziang Zhang	Energy Storage Systems Workforce Training & Internship Program	NYS Energy Research and Development Authority	33%	\$163,992	4/1/2022	3/31/2024
Ziang Zhang	NYSERDA PON 4393 Future Grid Challenge Round 1 RFP	TRC Companies	100%	\$50,004	1/1/2022	12/31/2023
				<b>Total # Credited</b>	<b>32.16</b>	
				<b>Total \$ Credited</b>	<b>\$10,835,812</b>	

## **020 Entrepreneurship and Innovation Partnership**

Elena Iankova	Soft Landing in New York's Southern Tier: Establishment of a Regional Hug for the Attraction of Foreign Direct Investment	Economic Development Administration	50%	\$807,050	1/1/2022	12/31/2024
Laura Holmes	EDA STEM: Southern Tier STEM Talent	Economic Development Administration	50%	\$125,000	7/1/2022	6/30/2024
Laura Holmes	New York State Certified Incubator (CFA)	Empire State Development Corp	50%	\$312,500	1/1/2022	12/31/2026
Olga Petrova	I-Corps Hub (Track 1): Interior Northeast	Cornell University	50%	\$600,000	1/1/2023	12/31/2027

<i><b>Proposal PI</b></i>	<i><b>Title</b></i>	<i><b>Sponsor Name</b></i>	<i><b>% Credited to PI</b></i>	<i><b>\$ Credited</b></i>	<i><b>Requested Start Date</b></i>	<i><b>Requested End Date</b></i>
Olga Petrova	Soteria - Internal Fetal Oxygen and pH Monitor	VentureWell	100%	\$5,000	6/1/2022	5/31/2023
Olga Petrova	VentureWell: Integrated Biomedical Entrepreneurship Training (IBET)	VentureWell	100%	\$30,000	3/1/2022	2/28/2025
Olga Petrova	EDA STEM: Southern Tier STEM Talent	Economic Development Administration	50%	\$125,000	7/1/2022	6/30/2024
Per Stromhaug	BBBRC Supply Chain Development and Qualification Program	Economic Development Administration	50%	\$2,499,031	9/1/2022	8/31/2025
Per Stromhaug	Energy Storage Systems Workforce Training & Internship Program	NYS Energy Research and Development Authority	33%	\$163,992	4/1/2022	3/31/2024
Per Stromhaug	New Energy New York-NY Center Construction	Economic Development Administration	50%	\$17,500,000	9/1/2022	8/31/2026
Per Stromhaug	New Energy New York - Workforce Development Programs	Economic Development Administration	50%	\$7,950,681	9/1/2022	8/31/2025
Per Stromhaug	New Energy New York: Innovation and Entrepreneurship	Economic Development Administration	50%	\$5,491,437	9/1/2022	8/31/2025
Per Stromhaug	New Energy New York: Battery-NY Center Operations and Staffing, and Lease Costs	Economic Development Administration	50%	\$2,499,716	9/1/2022	8/31/2026
Per Stromhaug	New Energy New York: Climate Justice and Social Equity Programs	Economic Development Administration	50%	\$1,976,651	9/1/2022	8/31/2025
Per Stromhaug	New Energy NY	Economic Development Administration	50%	\$250,000	1/1/2022	12/31/2023
Per Stromhaug	Soft Landing in New York's Southern Tier: Establishment of a Regional Hug for the Attraction of Foreign Direct Investment	Economic Development Administration	50%	\$807,050	1/1/2022	12/31/2024
Per Stromhaug	I-Corps Hub (Track 1): Interior Northeast	Cornell University	50%	\$600,000	1/1/2023	12/31/2027

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Per Stromhaug	New York Southern Tier Community Navigator	Cornell University	100%	\$250,000	9/1/2021	8/31/2023
Per Stromhaug	New York State Certified Incubator (CFA)	Empire State Development Corp	50%	\$312,500	1/1/2022	12/31/2026
			<b>Total # Credited</b>	<b>10.83</b>		
			<b>Total \$ Credited</b>	<b>\$42,305,606</b>		

## 020 Geography

Chengbin Deng	Exploring the Underserved Community Living Environment Change with Satellite Data	NASA Headquarters	50%	\$50,000	7/1/2022	6/30/2023
Chengbin Deng	Resubmission: HEGS: Urban Thermal Dynamics, Urban Landscape Transitions and Social Processes	National Science Foundation	50%	\$200,000	2/1/2022	1/31/2025
Chengbin Deng	NSF HEGS: Assessing the Physical and Socioeconomic Aspects of Natural Disaster Recovery with Day-and-night Satellite Observations	National Science Foundation	60%	\$239,999	7/1/2022	6/30/2025
Chengbin Deng	Collaborative Research: NSF SRS: Sustainable Development of Urban and Rural Systems	National Science Foundation	34%	\$170,000	7/1/2022	6/30/2026
Jay Newberry	Collaborative Research: NSF SRS: Sustainable Development of Urban and Rural Systems	National Science Foundation	33%	\$165,000	7/1/2022	6/30/2026
Jay Newberry	Exploring the Underserved Community Living Environment Change with Satellite Data	NASA Headquarters	50%	\$50,000	7/1/2022	6/30/2023
Jay Newberry	Resubmission: HEGS: Urban Thermal Dynamics, Urban Landscape Transitions and Social Processes	National Science Foundation	50%	\$200,000	2/1/2022	1/31/2025
Jay Newberry	NSF HEGS: Assessing the Physical and Socioeconomic Aspects of Natural Disaster Recovery with Day-and-night Satellite Observations	National Science Foundation	40%	\$160,000	7/1/2022	6/30/2025

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
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**Total # Credited** 3.67  
**Total \$ Credited** \$1,234,999

### 020 Geological Sci & Environmental Studies

Adriane Lam	Collaborative Research: Paleozoic echinoderms as model systems for the study of evolutionary modes	National Science Foundation	100%	\$96,228	8/1/2022	7/31/2025
Adriane Lam	U.S. Science Support Program Office associated with the International Ocean Discovery Program (USSSP-IODP)	Columbia University	100%	\$26,815	6/1/2022	5/31/2023
Molly Patterson	Collaborative Research: Exploring novel temperature and salinity proxies on the Antarctic margin during warm intervals of the Pliocene and Pleistocene	National Science Foundation	100%	\$461,257	9/1/2022	8/31/2025
Timothy de Smet	Senior Archeological Research: Coastal Freshwater Resources and Climate Change Impacts on Rapa Nui?	National Science Foundation	25%	\$34,436	5/1/2022	4/30/2024
Timothy de Smet	Climate Change Impacts on the Past and Future Coastal Freshwater Resources of Oceanic Islands: A Case Study from Rapa Nui	National Science Foundation	10%	\$29,724	9/1/2022	8/31/2026

**Total # Credited** 3.35  
**Total \$ Credited** \$648,460

### 020 History

Anne Bailey	Congressionally Directed Spending Request - FY 2023 Schumer	National Park Service	100%	\$1,000,000	9/1/2022	8/31/2024
Kent Schull	Title VI NRC in Middle East Studies at Binghamton University	US Department of Education	100%	\$1,350,062	8/15/2022	8/14/2026
Kent Schull	Title VI FLAS in Middle East Studies at Binghamton University	US Department of Education	100%	\$1,696,000	8/15/2022	8/14/2026

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
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**Total # Credited** **3.00**

**Total \$ Credited** **\$4,046,062**

### 020 Library Administration

Heather Parks	2021-2022 Conservation and Preservation Program Grant	NYS Education Department	100%	\$58,083	4/1/2021	3/31/2022
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**Total # Credited** **1.00**

**Total \$ Credited** **\$58,083**

### 020 Library Services

James Galbraith	Library Collections 2021-2022	NYS Education Department	100%	\$22,332	7/1/2021	6/30/2022
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**Total # Credited** **1.00**

**Total \$ Credited** **\$22,332**

### 020 Mathematical Sciences

David T Renfrew	Spectrum of Random Matrices with Correlated Entries	Simons Foundation	100%	\$42,000	9/1/2022	8/31/2027
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Eugenia Sapir	Coarse and Fine Geometry of Negatively Curved Surfaces	Simons Foundation	100%	\$42,000	9/1/2022	8/31/2027
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Gang Zhou	Evolution equations in non-equilibrium statistical mechanics, and generic singularities formed by mean curvature flow	National Science Foundation	100%	\$164,452	7/1/2022	6/30/2025
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Guifang Fu	MultiTOX- A convergent approach for predicting chemical mixtures toxicity	Environmental Protection Agency	30%	\$224,983	7/1/2022	6/30/2025
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Guifang Fu	CAREER: Data Science at the Interface of Morphology and Genome Data	National Science Foundation	100%	\$467,047	7/1/2022	6/30/2027
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<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Hung Tong-Viet	Reality Questions in Group Representation Theory	Simons Foundation	100%	\$42,000	9/1/2022	8/31/2027
Jonathan Williams	Topology of Smooth 4-manifolds	National Science Foundation	100%	\$165,245	7/1/2022	6/30/2025
Jose Aranda Cuevas	AMS-Simons Travel Grants	Simons Foundation	100%	\$5,000	9/1/2022	8/31/2024
L. William Kazmierczak	Scaffolding equity through a community of transformation	National Science Foundation	5%	\$139,087	6/1/2022	5/31/2027
Mei-Hsiu Chen	R01: NOSI: Actions to Decrease Disparities, increase Reach, Engagement in Community Supportive Sites for COVID-19 Vaccine Uptake (ADDRESS COVID-19 Vaccine Uptake)	National Institute on Minority Health & Health Disparities	10%	\$179,425	5/1/2022	4/30/2025
Michael Dobbins	CAREER: Analogs of Grassmannians and tools for vector bundles	National Science Foundation	100%	\$463,068	2/1/2022	1/31/2027
Michael Dobbins	Oriented Matroids and Realizability	Simons Foundation	100%	\$42,000	9/1/2022	8/31/2027
Xingye Qiao	NRT: Complex Social Systems Emergence (NRT-CSSE)	National Science Foundation	11%	\$329,878	3/1/2022	2/28/2027
Xingye Qiao	Trustworthy Machine Learning and Causal Inference	Simons Foundation	100%	\$42,000	9/1/2022	8/31/2027
Xingye Qiao	Collaborative Research: NSF SRS: Sustainable Development of Urban and Rural Systems	National Science Foundation	33%	\$165,000	7/1/2022	6/30/2026
			<b>Total # Credited</b>	<b>10.89</b>		
			<b>Total \$ Credited</b>	<b>\$2,513,186</b>		

## 020 Mechanical Engineering

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Andrea MacArgel	Enhancing Student Engagement Through Team-Based and Project-Based Learning	National Science Foundation	25%	\$75,000	6/1/2022	5/31/2025
Bahgat Sammakia	I/UCRC Phase III University of TX Arlington: Center for Energy-Smart Electronic Systems (ES2)	University of Texas at Arlington	50%	\$37,500	8/1/2022	7/31/2027
Bahgat Sammakia	I/UCRC Phase III Villanova University: Center for Energy-Smart Electronic Systems (ES2)	Villanova University	50%	\$37,500	8/1/2022	7/31/2027
Bahgat Sammakia	Center for Rapid Heterogeneous Integration and Enabling Technologies (Rapid HI)--(Sub-in Purdue)	Purdue University	25%	\$1,300,000	1/1/2023	12/31/2027
Bahgat Sammakia	CHIRP 2021: Thermal management of heterogeneous integrated packages subjected to high heat flux using 3d printed cold plates and manifolds	Purdue University	34%	\$51,000	1/1/2022	12/31/2024
Bahgat Sammakia	CHIRP 2021: Single and Two-Phase Immersion Cooling of High Heat Flux Electronics in Heterogeneous Integrated (HI) Packages. Experimental and Analytical Studies at the Device and Module Levels	Purdue University	34%	\$51,000	1/1/2022	12/31/2024
Bahgat Sammakia	NVIDIA Phase III Testing Agreement	NVIDIA Corporation	50%	\$25,001	11/3/2021	2/2/2022
Bahgat Sammakia	Liquid to Air Data Center Cooling Lab Phase II	NVIDIA Corporation	50%	\$25,000	7/8/2021	1/7/2022
Bahgat Sammakia	IUCRC Phase III Binghamton University: Center for Energy-Smart Electronic Systems (ES2)	National Science Foundation	50%	\$125,011	8/1/2022	7/31/2027
Bahgat Sammakia	NYSTAR Request for JUMP: Center for Rapid Heterogeneous Integration and Enabling Technologies (Rapid HI)	Empire State Development Corp	25%	\$250,000	1/1/2023	12/31/2027
Bahgat Sammakia	NVIDIA Phase IV Testing Agreement	NVIDIA Corporation	50%	\$25,001	1/25/2022	1/24/2023



<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Changhong Ke	Collaborative Research: Towards Tunable Nanomechanical Systems: Elucidating the Interfacial Mechanics in Twisted 2D Atomic Crystal Sheets	National Science Foundation	100%	\$393,360	9/1/2022	8/31/2025
Changhong Ke	Wuxiang Feng GRA Subaward from C. Jin University of Nebraska-Lincoln	University of Nebraska	100%	\$36,111	10/1/2021	9/30/2022
Dehao Liu	Digital Twin of Metal Additive Manufacturing for Process Monitoring and Control	National Institute of Standards and Technology	100%	\$712,754	5/1/2022	4/30/2024
Erica Sausner	Building Equity Into Excellence: Recruiting, Retaining, and Supporting Black Engineering Students	National Science Foundation	33%	\$668,200	1/1/2022	12/31/2026
Guangwen Zhou	Design, Synthesis, and Assembly of Biomimetic Materials with Novel Functionality	Pacific Northwest National Laboratory	100%	\$50,254	1/3/2022	1/2/2023
Guangwen Zhou	Novel In-situ Thermal Property Mapping to Study Powder Feedstock Aging and Laser Powder Bed Fusion	National Institute of Standards and Technology	33%	\$316,043	5/1/2022	4/30/2024
James Pitarresi	Enhancing Student Engagement Through Team-Based and Project-Based Learning	National Science Foundation	25%	\$75,000	6/1/2022	5/31/2025
James Pitarresi	Building Equity Into Excellence: Recruiting, Retaining, and Supporting Black Engineering Students	National Science Foundation	33%	\$668,200	1/1/2022	12/31/2026
Junghyun Cho	Adhesives Characterization-Project 702010 Rev. 1	Honeywell Federal Manufacturing & Technologies LLC	100%	\$110,000	10/5/2021	10/4/2022
Junghyun Cho	CHIRP 2021: Transient Liquid Phase Bond Made from Low-Temperature Eutectic Alloy	Purdue University	100%	\$150,000	1/1/2022	12/31/2024
Kaiyan Yu	CAREER: Simultaneous and Independent Control of Multiple Agents under a Common Electric Field	National Science Foundation	100%	\$588,608	3/1/2022	2/28/2027
Kaiyan Yu	Linear Large-stroke Electrostatic MEMS Mirrors to Enable Efficient Control Methods	National Science Foundation	40%	\$224,260	9/1/2022	8/31/2025

<i><b>Proposal PI</b></i>	<i><b>Title</b></i>	<i><b>Sponsor Name</b></i>	<i><b>% Credited to PI</b></i>	<i><b>\$ Credited</b></i>	<i><b>Requested Start Date</b></i>	<i><b>Requested End Date</b></i>
Kirill Zaychik	Enhancing Student Engagement Through Team-Based and Project-Based Learning	National Science Foundation	25%	\$75,000	6/1/2022	5/31/2025
Mirjalil Razaviaghjeh	R21: Prediction and retrieval of human cortical folding patterns	Eunice Kennedy Shriver National Institute of Child Health & Human Dev	50%	\$198,661	7/1/2022	6/30/2024
Mirjalil Razaviaghjeh	Measuring and Mapping the Multiscale Anisotropy and Hyperviscoelasticity of Human White Brain Matter	National Science Foundation	50%	\$236,053	1/1/2023	12/31/2025
Mohammad Younis	A Miniaturized Breath Ketone Sensor for Diabetes Employing Novel Functionalized Nanomaterials and Simple MEMS-based Readout Techniques	National Institutes of Health	100%	\$415,833	4/1/2023	3/31/2025
Mohammad Younis	Collaborative Research: SCH: A New Platform for Compact and Energy-Efficient Head Impact Micro Sensors and Switches	National Science Foundation	100%	\$450,000	5/1/2021	4/30/2024
Mohammad Younis	Collaborative Research: Data-Driven Models for Small-Scale Dynamical Systems	National Science Foundation	100%	\$350,000	7/1/2022	6/30/2025
Mohammad Younis	Chip-Level Intelligence of Micro Resonant Gas Sensors for Multi-Functionality and Superior Performance	National Science Foundation	100%	\$429,866	8/1/2022	7/31/2025
Mohammad Younis	Collaborative Research: A Sensing Platform for Explosives Detection Based on a New Nanocomposite and Novel MEMS Transduction Techniques	National Science Foundation	100%	\$408,134	1/1/2023	12/31/2025
Paul Chiarot	CHIRP 2021: Printed Conformal Metal Films for Electromagnetic Interference (EMI) Protection	Purdue University	100%	\$150,000	1/1/2022	12/31/2024
Paul Chiarot	Templated Production of Microvesicles for Therapeutic Applications	National Institute of General Medical Sciences	50%	\$208,671	1/1/2023	12/31/2024
Pong-Yu Huang	U-RISE at Binghamton University	National Institutes of Health	34%	\$1,049,366	4/1/2023	3/31/2028

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Pong-Yu Huang	Enhancing Student Engagement Through Team-Based and Project-Based Learning	National Science Foundation	25%	\$75,000	6/1/2022	5/31/2025
Pu Zhang	Polymer-Based Conformal Space Radiation Shield with Thermal Management Manufactured by Five-Axis 3D Printing Platform	Advanced Cooling Technologies	100%	\$29,999	6/27/2022	3/26/2023
Pu Zhang	CAREER: Electro-Mechanical Behaviors of Soft Conductive Composites Embedded with Liquid Metal Fiber Network	National Science Foundation	100%	\$565,337	4/1/2022	3/31/2027
Ronald Miles	Discovering A High-Speed Three Dimensional Electrostatic Micro-Scanner	National Science Foundation	50%	\$313,557	9/1/2022	8/31/2025
Scott Schiffres	Novel In-situ Thermal Property Mapping to Study Powder Feedstock Aging and Laser Powder Bed Fusion	National Institute of Standards and Technology	34%	\$325,620	5/1/2022	4/30/2024
Scott Schiffres	Center for Rapid Heterogeneous Integration and Enabling Technologies (Rapid HI)--(Sub-in Purdue)	Purdue University	25%	\$1,300,000	1/1/2023	12/31/2027
Scott Schiffres	CHIRP 2021: Thermal management of heterogeneous integrated packages subjected to high heat flux using 3d printed cold plates and manifolds	Purdue University	33%	\$49,500	1/1/2022	12/31/2024
Scott Schiffres	MRI: Acquisition of Zeiss Xradia 3D X-Ray Microscope for Support of Research and Education at Binghamton University	National Science Foundation	33%	\$328,548	9/1/2022	8/31/2023
Scott Schiffres	PFI-TT: Enhanced Electronic Cooling via 3D Printing - REU Summer Supplement NSF 1941181	National Science Foundation	100%	\$16,000	5/16/2022	11/15/2022
Scott Schiffres	ONR YIP: Enhanced Thermal Transport through Laser Formed Ultrathin Carbide-Diamond Interfaces	US Navy Office of Naval Research	100%	\$510,000	4/1/2022	3/31/2025

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Scott Schiffres	Development of a Lightweight Additive Manufacturing Process using Ultrasonic Wire Bonding for In-Space Manufacturing Applications (Jacob Goodman NASA)	NASA Headquarters	100%	\$80,000	8/1/2022	5/31/2023
Scott Schiffres	SBIR Phase II: Battery Energy Storage System (BESS) with three phase Grid Integrated Inverter using 3D printed Magnetics components with Nanocrystalline soft magnetic material	Mallika Ashwin Maya	45%	\$165,001	8/22/2022	8/21/2024
Scott Schiffres	Thermal Conductivity of 3d Printed Copper Samples - Material Testing LMCO	Lockheed Martin Corporation	100%	\$4,200	8/10/2021	12/9/2021
Scott Schiffres	NYSTAR Request for JUMP: Center for Rapid Heterogeneous Integration and Enabling Technologies (Rapid HI)	Empire State Development Corp	25%	\$250,000	1/1/2023	12/31/2027
Scott Schiffres	Real-time Thermal Property Measurements for Enhanced Additive Manufacturing	Defense Advanced Research Projects Agency (DARPA)	100%	\$999,999	7/1/2022	6/30/2025
Scott Schiffres	CHIRP 2021: Single and Two-Phase Immersion Cooling of High Heat Flux Electronics in Heterogeneous Integrated (HI) Packages. Experimental and Analytical Studies at the Device and Module Levels	Purdue University	33%	\$49,500	1/1/2022	12/31/2024
Scott Schiffres	Real-time Detecting SARS-Cov-2 in an Enclosed Space to Stop Virus Spreading	National Institute of Standards and Technology	20%	\$499,509	11/1/2021	10/31/2023
Seungbae Park	AI-based System Integration for Process Enhancement in the Printed Circuit Board Assembly	Koh Young Technology Incorporated	34%	\$42,500	1/4/2022	1/3/2023
Shahrzad Towfighian	R21: High-resolution Infrared Medical Imaging with MEMS Metamaterials	National Inst of Biomedical Imaging and Bioenginee	100%	\$631,322	9/1/2022	8/31/2025
Shahrzad Towfighian	Discovering A High-Speed Three Dimensional Electrostatic Micro-Scanner	National Science Foundation	50%	\$313,557	9/1/2022	8/31/2025

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Shahrzad Towfighian	Linear Large-stroke Electrostatic MEMS Mirrors to Enable Efficient Control Methods	National Science Foundation	60%	\$336,389	9/1/2022	8/31/2025
Srikanth Rangarajan	Novel In-situ Thermal Property Mapping to Study Powder Feedstock Aging and Laser Powder Bed Fusion	National Institute of Standards and Technology	33%	\$316,043	5/1/2022	4/30/2024
Xin Yong	Templated Production of Microvesicles for Therapeutic Applications	National Institute of General Medical Sciences	50%	\$208,671	1/1/2023	12/31/2024
Xin Yong	Collaborative Research: In-Air Self-Assembly of Multiphase Droplets in Electrospray Deposition	National Science Foundation	100%	\$275,954	1/1/2023	12/31/2025
			<b>Total # Credited</b>	<b>35.66</b>		
			<b>Total \$ Credited</b>	<b>\$17,652,591</b>		

## 020 Pharmaceutical Sciences

Eric Hoffman	Genetic modifiers of treatment response in DMD	Department of Defense (CDMRP)	100%	\$447,571	7/1/2022	6/30/2024
Eric Hoffman	Defining the Inflammatory Efficacy Response in DMD	Department of Defense (CDMRP)	10%	\$54,950	7/1/2022	6/30/2024
Eric Hoffman	Genetic Modifiers of Treatment Response in DMD.	Muscular Dystrophy Association of America	100%	\$523,462	9/1/2022	8/31/2025
Eric Hoffman	R21 - Clinical Trial Readiness for Monitoring Muscle Inflammation in Duchenne Muscular Dystrophy	National Institutes of Health	100%	\$431,929	7/1/2022	6/30/2024
Eric Hoffman	Dystrophin Turnover After Exon-skipping Therapy	National Institutes of Health	25%	\$1,027,292	9/1/2022	8/31/2027
Eric Hoffman	Study of Long-Term Treatment of Vamorolone on Prevention of Cardiac Disease in D	Department of Defense (CDMRP)	100%	\$1,714,934	7/1/2022	6/30/2025
Kanneboyina Nagaraju	Single-cell Analysis of Human Pediatric Muscular Dystrophies	Children's National Medical Center	100%	\$73,864	12/1/2022	11/30/2026

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Kanneboyina Nagaraju	REGENXBIO	Childrens Research Institute	50%	\$268,801	6/1/2022	5/31/2024
Kanneboyina Nagaraju	Defining the Inflammatory Efficacy Response in DMD	Department of Defense (CDMRP)	10%	\$54,950	7/1/2022	6/30/2024
Kanneboyina Nagaraju	Mechanisms of Muscle Weakness During Viral Illnesses	National Institutes of Health	50%	\$148,375	4/1/2022	3/31/2024
Kanneboyina Nagaraju	Dystrophin Turnover After Exon-skipping Therapy	National Institutes of Health	25%	\$1,027,292	9/1/2022	8/31/2027
Katie Edwards	R21: A Synthetic Strategy to Produce Biologically-Relevant Antibiotics Using Thiaminase I and Vitamin B1	National Institutes of Health	100%	\$446,000	7/1/2021	6/30/2023
Katie Edwards	Mechanisms of Muscle Weakness During Viral Illnesses	National Institutes of Health	50%	\$148,375	4/1/2022	3/31/2024
Katie Edwards	R21 FLIPOSpot: A quantitative assay platform to quantify cell-mediated immunity following vaccination or natural exposure to infectious disease	National Institutes of Health	100%	\$391,850	7/1/2021	6/30/2023
Katie Edwards	Impact of Metformin on Resistance to Environmental Stress	National Institutes of Health	100%	\$157,000	4/1/2023	3/31/2025
Katie Edwards	Testing Agreement - Thiaminase analysis in Asian Carp	Two Rivers Fisheries	100%	\$3,000	9/13/2021	9/12/2022
Katie Edwards	Synergistic Combination Therapy for Duchenne Muscular Dystrophy	Muscular Dystrophy Association of America	100%	\$300,000	9/1/2022	8/31/2025
L. Nathan Tumey	Therapeutic Optimization of IPSE, a Urogenital Parasite-Derived Immunomodulatory Protein, for Chronic Pain	Childrens Research Institute	100%	\$333,328	1/1/2022	12/31/2025
L. Nathan Tumey	Mitigating ADA through site-specific conjugation technology for Samantha Benjamin	National Cancer Institute	100%	\$111,708	8/1/2022	7/31/2025

<i><b>Proposal PI</b></i>	<i><b>Title</b></i>	<i><b>Sponsor Name</b></i>	<i><b>% Credited to PI</b></i>	<i><b>\$ Credited</b></i>	<i><b>Requested Start Date</b></i>	<i><b>Requested End Date</b></i>
L. Nathan Tumey	Equipment Supplement: Exploiting the Hydrophobic Glycosyl Pocket of IgG1 for Imaging and Drug Delivery Applications	National Institute of General Medical Sciences	100%	\$70,110	9/1/2022	8/31/2023
Melissa Morales	Defining the Inflammatory Efficacy Response in DMD	Department of Defense (CDMRP)	70%	\$384,650	7/1/2022	6/30/2024
Melissa Morales	Dystrophin Turnover After Exon-skipping Therapy	National Institutes of Health	25%	\$1,027,292	9/1/2022	8/31/2027
Mohammad Ali	Resubmission - AACP : The Role of Intracellular MMP-2 in Cancer Progression	American Association of Colleges of Pharmacy	100%	\$10,000	3/1/2022	2/28/2023
Mohammad Ali	Novel Targets of Nuclear MMP-2 in Metastasis of Osteosarcoma	American Cancer Society	90%	\$534,600	1/1/2023	12/31/2025
Mohammad Ali	Novel Targets of MMP2 in the Metastasis of Osteosarcoma	Gilead Foundation	100%	\$130,000	9/1/2022	8/31/2024
Tao Zhang	In Vitro Assessment of Chemical Mixture-induced Airway Inflammation in Healthy and Diseased Lungs	Georgia Institute of Technology	100%	\$273,000	10/1/2022	9/30/2025
Tao Zhang	Predicting the Transfer of Breast Cancer Resistant Protein (BCRP) Substrates into Human Milk Using In Vitro to In Vivo Extrapolation (IVIVE)	US Food and Drug Administration	100%	\$301,019	3/28/2022	9/27/2023
Tao Zhang	Quantitative Proteomics of Ocular Metabolizing Enzymes and Transporters and PBPK Modeling of Ophthalmic Drugs	US Food and Drug Administration	100%	\$599,262	9/1/2022	8/31/2024
Tracy Brooks	Vamorolone as a Novel Steroidal Antilymphoma Compound: A Pilot Study	National Cancer Institute	100%	\$157,000	7/1/2022	6/30/2024
Tracy Brooks	Clinical Study to Correlate THC and CBD Absorption with Medical Marijuana	National Institute on Drug Abuse	60%	\$259,050	9/1/2022	8/31/2024
William Eggleston	Evaluating the Pharmacokinetics and Patient Outcomes of Buprenorphine Microdosing	American Academy of Clinical Toxicology	100%	\$6,000	7/1/2022	6/30/2023

<i><b>Proposal PI</b></i>	<i><b>Title</b></i>	<i><b>Sponsor Name</b></i>	<i><b>% Credited to PI</b></i>	<i><b>\$ Credited</b></i>	<i><b>Requested Start Date</b></i>	<i><b>Requested End Date</b></i>
Yetrib Hathout	Novel Targets of Nuclear MMP-2 in Metastasis of Osteosarcoma	American Cancer Society	10%	\$59,400	1/1/2023	12/31/2025
Yetrib Hathout	REGENXBIO	Childrens Research Institute	50%	\$268,801	6/1/2022	5/31/2024
Yetrib Hathout	Defining the Inflammatory Efficacy Response in DMD	Department of Defense (CDMRP)	10%	\$54,950	7/1/2022	6/30/2024
Yetrib Hathout	Characterization of the regulation and role of a GBS colonization factor	National Institute of Allergy & Infectious Disease	5%	\$93,576	9/1/2022	8/31/2027
Yetrib Hathout	Dystrophin Turnover After Exon-skipping Therapy	National Institutes of Health	25%	\$1,027,292	9/1/2022	8/31/2027
				<b>Total # Credited</b>	<b>25.65</b>	
				<b>Total \$ Credited</b>	<b>\$12,920,680</b>	

## **020 Pharmacy Practice**

Emily Leppien	Clinical Study to Correlate THC and CBD Absorption with Medical Marijuana	National Institute on Drug Abuse	40%	\$172,700	9/1/2022	8/31/2024
				<b>Total # Credited</b>	<b>0.40</b>	
				<b>Total \$ Credited</b>	<b>\$172,700</b>	

## **020 Physics Applied Physics & Astronomy**

Ana Laura Elias	Investigating the Catalytic Effect of Dopants and Defects in Transition Metal Dichalcogenides for Desulfurization of Petroleum Products	American Chemical Society	100%	\$110,000	9/1/2022	8/31/2024
Ana Laura Elias	ExpandQISE: Track 2: Diversifying Research and Education on Quantum Information with Moir? Patterns and 2D Qubits	National Science Foundation	13%	\$625,000	9/1/2022	8/31/2027



<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Bonggu Shim	ExpandQISE: Track 2: Diversifying Research and Education on Quantum Information with Moiré Patterns and 2D Qubits	National Science Foundation	13%	\$625,000	9/1/2022	8/31/2027
Bonggu Shim	Study and control of nonlinear propagation and radiation in high-intensity laser matter interactions	US Navy Office of Naval Research	100%	\$553,523	9/1/2022	8/31/2023
Bonggu Shim	Control of directed laser energy in ultra-short pulse laser filamentation	US Navy Office of Naval Research	100%	\$804,108	11/14/2022	11/13/2027
Eric Cotts	Electromigration Characterization of Low Temperature Solder Alloys	Universal Instruments Corporation	100%	\$35,999	7/15/2021	1/14/2022
Eric Cotts	Solder Joint Reliability Failure Mechanisms Testing	Universal Instruments Corporation	100%	\$24,000	9/22/2021	1/21/2022
Eric Cotts	Electromigration Characterization of Low Temperature Solder Alloys	Universal Instruments Corporation	100%	\$45,000	1/15/2022	8/14/2022
Eric Cotts	Testing Agreement: Failure Analysis	Universal Instruments Corporation	100%	\$14,000	5/20/2022	5/19/2023
Eric Cotts	SnBi and SnAgCu based solder joints during current stressing: Identifying microstructural correlations with mechanical reliability performance.	Universal Instruments Corporation	100%	\$32,000	6/15/2022	6/14/2023
Jeffrey Mativetsky	R21: Mask-integrated Respiratory Health Monitoring	National Inst of Biomedical Imaging and Bioenginee	50%	\$212,712	7/1/2022	6/30/2024
Jeffrey Mativetsky	Quantum Dot Enabled Enhancement of Organic Solar Cells	US Department of Energy	60%	\$180,000	8/1/2022	7/31/2023
Jeffrey Mativetsky	Mitigating Ion Migration for Long-term Stability of Perovskite Solar Cells	US Department of Energy	20%	\$60,000	8/1/2022	7/31/2023
Manuel Smeu	Collaborative Research: Tailoring Electron and Spin Transport in Single Molecule Junctions	National Science Foundation	100%	\$179,338	8/1/2022	7/31/2025

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Michael Lawler	ExpandQISE: Track 2: Diversifying Research and Education on Quantum Information with Moir? Patterns and 2D Qubits	National Science Foundation	13%	\$625,000	9/1/2022	8/31/2027
Pegor Aynajian	ExpandQISE: Track 2: Diversifying Research and Education on Quantum Information with Moir? Patterns and 2D Qubits	National Science Foundation	13%	\$625,000	9/1/2022	8/31/2027
Pegor Aynajian	Visualizing emergent electronic states in correlated topological matter	National Science Foundation	50%	\$259,912	8/1/2022	7/31/2025
Wei-Cheng Lee	Visualizing emergent electronic states in correlated topological matter	National Science Foundation	50%	\$259,912	8/1/2022	7/31/2025
			<b>Total # Credited</b>	<b>11.80</b>		
			<b>Total \$ Credited</b>	<b>\$5,270,503</b>		

## 020 Political Science

Katja Kleinberg	Engaging a Diverse Public: American Public Opinion on Foreign Economic Policy	Temple University	100%	\$38,393	1/1/2023	12/31/2024
			<b>Total # Credited</b>	<b>1.00</b>		
			<b>Total \$ Credited</b>	<b>\$38,393</b>		

## 020 Psychology

Anny Gano	Long-lasting Effects of Adolescent Alcohol on Host Immunity and Acute Phase Responses	National Institute for Alcohol Abuse & Alcoholism	25%	\$293,520	2/1/2022	1/31/2025
Anny Gano	CNS-mediated fever after Adolescent Intermittent Ethanol	National Institute for Alcohol Abuse & Alcoholism	25%	\$569,461	7/1/2022	6/30/2027
Anny Gano	CNS-mediated fever after Adolescent Intermittent Ethanol	National Institute for Alcohol Abuse & Alcoholism	25%	\$608,337	9/1/2022	8/31/2027
Anushree Karkhanis	Center for Systems Neurogenetics of Addiction: Project 1 - Impulsivity	Jackson Laboratory	25%	\$278,795	7/1/2022	6/30/2027

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Anushree Karkhanis	R21 Resubmission: Impact of Prenatal Methadone on BLA Dopamine Function and Synaptic Plasticity	National Institute on Drug Abuse	25%	\$107,368	4/1/2022	3/31/2024
Anushree Karkhanis	K99/R00 for Jared Bagley: Intersecting genetic risk for extreme cocaine self-administration with dopamine neurotransmission	National Institute on Drug Abuse	30%	\$303,781	7/1/2022	6/30/2027
Brandon Gibb	Attentional Biases for Affective Cues as a Mechanism of Risk in Children of Depressed Mothers	Eunice Kennedy Shriver National Institute of Child Health & Human Dev	100%	\$3,657,652	7/1/2022	6/30/2027
Brandon Gibb	Development of Attentional Biases for Affective Cues in Infants of Depressed Mothers	National Institute of Mental Health	90%	\$3,072,262	7/1/2022	6/30/2027
Brandon Gibb	Development of Attentional Biases for Affective Cues in Infants of Mothers with Depression	National Institute of Mental Health	90%	\$3,173,021	4/1/2023	3/31/2028
Brandon Gibb	Development of contour integration in children exposed to differing levels of digital media	National Science Foundation	5%	\$39,733	8/1/2022	7/31/2026
Christina Balderrama-Durbin	Emotion Regulation on the Relation of Co-occurring Posttraumatic Stress Symptoms and Alcohol Use on Relationship Distress in Trauma Exposed Individuals	Psi Chi The International Honor Society in Psychology	100%	\$1,353	7/15/2021	7/14/2022
Christopher Bishop	Defining the Neurobiological Mechanisms Underlying Benefits and Limitations of Exercise Impact in Parkinson's Disease Rodent Models for Optimal Translation	University of North Texas Health Science Center	100%	\$398,765	4/1/2023	3/31/2028
Christopher Bishop	I-Corps: Repurposing Serotonergic Compounds for Improved Treatment of Parkinson's Disease	National Science Foundation	100%	\$50,000	1/1/2022	12/31/2022
Christopher Bishop	BDNF rs6265 Variant and Suboptimal Levodopa Response	Michigan State University	100%	\$381,599	9/1/2022	8/31/2025
Christopher Bishop	Maladaptive 5-HT Raphe-corticolimbic Plasticity Underlying the Development of Non-motor Behavioral Symptoms in Parkinson's Disease	Dignity Health dba St. Joseph's Hospital	100%	\$682,288	4/1/2022	3/31/2026

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
David Werner	RESUBMISSION R01 Cross Seeding Between Beta-Amyloid Fibrillar Variants: A Pathologically Relevant Event that Modulates the Amyloid Molecular Polymorphisms and Neuronal Toxicity	National Institutes of Health	25%	\$522,648	4/1/2022	3/31/2027
Elena Varlinskaia	Long-lasting Effects of Adolescent Alcohol on Host Immunity and Acute Phase Responses	National Institute for Alcohol Abuse & Alcoholism	25%	\$293,520	2/1/2022	1/31/2025
Elena Varlinskaia	CNS-mediated fever after Adolescent Intermittent Ethanol	National Institute for Alcohol Abuse & Alcoholism	25%	\$569,461	7/1/2022	6/30/2027
Elena Varlinskaia	CNS-mediated fever after Adolescent Intermittent Ethanol	National Institute for Alcohol Abuse & Alcoholism	25%	\$608,337	9/1/2022	8/31/2027
Emily Zale	A Novel Motivational Intervention to Increase Enrollment and Retention in a Rural Diabetes Self-management Program	Bassett Healthcare	100%	\$48,813	7/1/2022	6/30/2024
James Jentsch	Center for Systems Neurogenetics of Addiction: Project 1 - Impulsivity	Jackson Laboratory	75%	\$836,385	7/1/2022	6/30/2027
James Jentsch	Development and Neuroadaptations in Alcohol and Addictions (DNA2)	National Institute for Alcohol Abuse & Alcoholism	80%	\$1,360,440	4/1/2023	3/31/2028
James Jentsch	K99/R00 for Jared Bagley: Intersecting genetic risk for extreme cocaine self-administration with dopamine neurotransmission	National Institute on Drug Abuse	70%	\$708,824	7/1/2022	6/30/2027
James Jentsch	Computational Methods for Identification of Genetic Factors Affecting the Response to Drug Abuse	Stanford University	100%	\$628,000	4/1/2022	3/31/2027
James Jentsch	Computational Methods for Identification of Genetic Factors Affecting the Response to Drug Abuse	Stanford University	100%	\$628,000	12/1/2022	11/30/2027
Kenneth Kurtz	NRT: Complex Social Systems Emergence (NRT-CSSE)	National Science Foundation	11%	\$329,878	3/1/2022	2/28/2027

<i><b>Proposal PI</b></i>	<i><b>Title</b></i>	<i><b>Sponsor Name</b></i>	<i><b>% Credited to PI</b></i>	<i><b>\$ Credited</b></i>	<i><b>Requested Start Date</b></i>	<i><b>Requested End Date</b></i>
Marvin Diaz	Prenatal alcohol effects on acute ethanol and CRF1R interactions	National Institute for Alcohol Abuse & Alcoholism	100%	\$179,430	8/1/2022	7/31/2025
Marvin Diaz	R21 Resubmission: Impact of Prenatal Methadone on BLA Dopamine Function and Synaptic Plasticity	National Institute on Drug Abuse	70%	\$300,629	4/1/2022	3/31/2024
Marvin Diaz	Development and Neuroadaptations in Alcohol and Addictions (DNA2)	National Institute for Alcohol Abuse & Alcoholism	20%	\$340,110	4/1/2023	3/31/2028
Marvin Diaz	F31: Fellowship Support for Meredith Gamble: Prenatal methadone effects on adult neurogenesis	National Institute on Drug Abuse	100%	\$62,472	7/1/2022	6/30/2024
Meredith Coles	Using EMA and Real-time Smartphone Data to Assess Repetitive Negative Thinking and Sleep Disturbance as Risk Factors for Anxiety and Depression	University of Pennsylvania	100%	\$1,132,080	9/1/2022	8/31/2026
Nadine Mastroleo	Friend-based Motivational Intervention to Reduce Alcohol-Involved Sexual Assault Risk on College Campuses	SUNY at Buffalo	100%	\$112,560	12/1/2022	11/30/2027
Nicholas Gaspelin	Development of contour integration in children exposed to differing levels of digital media	National Science Foundation	5%	\$39,733	8/1/2022	7/31/2026
Patricia Di Lorenzo	Cerebellar Modulation of Pontine Parabrachial Taste Processing	Pennsylvania State University	100%	\$215,875	4/1/2023	3/31/2025
Peter Gerhardstein	Development of Attentional Biases for Affective Cues in Infants of Mothers with Depression	National Institute of Mental Health	10%	\$352,558	4/1/2023	3/31/2028
Peter Gerhardstein	Development of contour integration in children exposed to differing levels of digital media	National Science Foundation	90%	\$715,193	8/1/2022	7/31/2026
Peter Gerhardstein	Development of Attentional Biases for Affective Cues in Infants of Depressed Mothers	National Institute of Mental Health	10%	\$341,362	7/1/2022	6/30/2027

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Steven Lynn	A Novel, Brief and Cost-Effective Treatment for Misophonia: Exposure and Counterconditioning with Breathing and Counting	Misophonia Research Fund	100%	\$315,198	10/1/2022	9/30/2024
Steven Lynn	Evaluating Misophonia: A Novel Research and Clinical Tool	Misophonia Research Fund	100%	\$386,014	10/1/2022	9/30/2024
Sung-Joo Lim	The Role of Talker Cues in Speech Processing in Normal and Impaired Hearing	Boston University	100%	\$367,477	7/1/2022	6/30/2027
Terrence Deak	Long-lasting Effects of Adolescent Alcohol on Host Immunity and Acute Phase Responses	National Institute for Alcohol Abuse & Alcoholism	50%	\$587,040	2/1/2022	1/31/2025
Terrence Deak	Role of Microglial Fractalkine Signaling in Altered Dopaminergic Wiring in FASD	Ursinus College	100%	\$50,012	5/1/2023	4/30/2025
Terrence Deak	R21: Role of Microglial Fractalkine Signaling in Altered Dopaminergic Wiring in FASD	Ursinus College	100%	\$38,826	7/1/2022	6/30/2024
Terrence Deak	R21 Resubmission: Impact of Prenatal Methadone on BLA Dopamine Function and Synaptic Plasticity	National Institute on Drug Abuse	5%	\$21,474	4/1/2022	3/31/2024
Terrence Deak	Accelerated Aging with Early Adversity: Novel Biological Mechanisms	Butler Hospital	100%	\$193,369	4/1/2023	3/31/2028
Terrence Deak	Novel Predictors of Accelerated Aging with Early Adversity: Real World Stress Responding, Biological Mechanisms, and Health Behaviors	Butler Hospital	100%	\$126,794	9/1/2022	8/31/2027
Terrence Deak	CNS-mediated fever after Adolescent Intermittent Ethanol	National Institute for Alcohol Abuse & Alcoholism	50%	\$1,216,674	9/1/2022	8/31/2027
Terrence Deak	CNS-mediated fever after Adolescent Intermittent Ethanol	National Institute for Alcohol Abuse & Alcoholism	50%	\$1,138,921	7/1/2022	6/30/2027

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Thomas Harding	For Melissa Gates: Clinical Placement Agreement Between ARK Psychology PLLC and The Research Foundation for the State University of New York	ARK Psychology LLC	100%	\$21,447	5/24/2022	5/23/2023
Thomas Harding	For Fiona Sleight: Clinical Placement Agreement Between ARK Psychology, PLLC, and The Research Foundation for the State University of New York	ARK Psychology LLC	100%	\$19,424	7/5/2022	7/4/2023
Thomas Harding	Clinical Placement Agreement - UHS	United Health Services Hospitals Incorporated	100%	\$23,000	8/24/2021	8/23/2022
			<b>Total # Credited</b>	<b>34.36</b>		
			<b>Total \$ Credited</b>	<b>\$28,449,911</b>		

## 020 Public Archaeology Facility

Laurie Miroff	Tri Cities Airport Project, combined Phase 1A/1B Archaeological Assessment and Survey	McFarland and Johnson Engineers Incorporated	100%	\$9,515	11/1/2021	10/31/2022
Laurie Miroff	Phase 1A/1B Archaeological Survey, Log Landings and Skid Trails at Tug Hill WMA Project (Options 1 & 2), Town of Montague, Lewis County, New York	NYS Department of Environmental Conservation	100%	\$21,382	11/1/2022	10/31/2023
Laurie Miroff	Phase 1A/1B Archaeological Survey, Log Landing, Approach, and Skid Trails at Wilson Hill WMA Project, Town of Louisville, St. Lawrence County, New York	NYS Department of Environmental Conservation	100%	\$13,513	11/1/2022	10/31/2023
Laurie Miroff	Archaeology Outreach Program (Cambridge) - Modification to Urban Archaeology Corps Program 2021	National Park Service	100%	\$20,934	7/1/2022	6/30/2023
Laurie Miroff	Battle of Fort Bull: Research, Indigenous Voices, and Community Stewardship	National Park Service	100%	\$71,630	7/1/2022	6/30/2024
Laurie Miroff	Cultural Resource Survey Program Consultant Contract 2022-2027	NYS Education Department	100%	\$5,664,490	4/1/2022	3/31/2027

<i><b>Proposal PI</b></i>	<i><b>Title</b></i>	<i><b>Sponsor Name</b></i>	<i><b>% Credited to PI</b></i>	<i><b>\$ Credited</b></i>	<i><b>Requested Start Date</b></i>	<i><b>Requested End Date</b></i>
Laurie Miroff	Phase 1A/1B Archaeological Assessment and Archaeological Survey, Piseco Airport Project, Town of Arietta, Hamilton County, New York	McFarland and Johnson Engineers Incorporated	100%	\$7,230	3/5/2022	3/4/2023
Laurie Miroff	Phase 1B survey for the Hudson Farms Wetlands project in the Town of Camillus, Onondaga County, New York	Parsons Engineering Science Incorporated	100%	\$2,949	4/1/2022	3/31/2023
Laurie Miroff	Shokan WMP Project, Phase 1B Archaeological Survey (estimate of 1400-1550 STPs), Town of Olive, Ulster County, New York	Lamont Engineers	100%	\$68,763	4/27/2022	4/26/2023
Laurie Miroff	Shokan WMP Project, Phase 1A Archaeological Assessment, Town of Olive, Ulster County, New York	Lamont Engineers	100%	\$2,866	11/18/2021	11/17/2022
Laurie Miroff	Cultural Resource Screening (FCC 620), BCS Tower Project, Schuyler County	Mid-State Communications	100%	\$2,255	6/10/2021	6/9/2022
Laurie Miroff	Archaeological monitoring of the Sonnenberg Gardens and Mansion State Historic Park water feature restoration project in the Town of Canandaigua, Ontario County	NYS Office of Parks Rec & Historic Preservation	100%	\$9,950	9/1/2022	8/31/2023
Laurie Miroff	Shotwell Brook Streambank Stabilization Project, Phase 1 Archaeological Survey, Town of Skaneateles, Onondaga County, New York	Onondaga County Soil and Water Conservation Dist	100%	\$2,341	7/15/2021	7/14/2022
Laurie Miroff	Architectural Survey, 3510 West Road, Town of Corning, Steuben County. New York	Parsons Engineering Science Incorporated	100%	\$2,246	9/24/2021	9/23/2022
Laurie Miroff	Phase 1A/1B Archaeological Survey, Frank Long Road Solar Project, Town of Pompey, Onondaga County, New York	Seaboard Solar	100%	\$33,971	3/9/2022	3/8/2023
Laurie Miroff	Phase 1A Archaeological Assessment, SUNY Albany Uptown Campus Project	SLAM Architects Landscape Architects and Engineers Professional Corporation	100%	\$2,146	5/5/2022	5/4/2023
Laurie Miroff	Phase 1B Archaeological Survey for the Colonie Warehouse Facility Project in the Town of Colonie, Albany County, New York	Stantec Architecture	100%	\$5,482	6/15/2021	6/14/2022



<i><b>Proposal PI</b></i>	<i><b>Title</b></i>	<i><b>Sponsor Name</b></i>	<i><b>% Credited to PI</b></i>	<i><b>\$ Credited</b></i>	<i><b>Requested Start Date</b></i>	<i><b>Requested End Date</b></i>
Laurie Miroff	Phase 1A Archaeological Assessment, Newark Valley Solar Project, Town of Newark Valley, Tioga County, New York	LaBella Associates	100%	\$2,439	6/16/2022	6/15/2023
Laurie Miroff	Phase I A Archaeological Assessment and a Phase I B Archaeological Survey for the proposed development of property off of Buck Point Road and adjacent to Owasco Lake in Cayuga County, New York	Todd Post	100%	\$4,851	8/24/2021	8/23/2022
Laurie Miroff	Phase 1A/1B Archaeological Survey, Yeshiva Mercaz Hatorah-Ramapo Project, Town of Ramapo, Rockland County, New York	Yeshiva Mercaz Hatorah	100%	\$2,995	4/14/2022	4/13/2023
Laurie Miroff	Mapping Proposal Woodstock Bindy Bazaar Project, Bethel, Sullivan County, NY	Bethel Woods Center for the Arts	100%	\$1,387	5/16/2022	5/15/2023
Laurie Miroff	Orange County Archaeological Services	Orange County	100%	\$9,948	9/1/2022	8/31/2023
Laurie Miroff	Cultural Resource Screening (FCC 620), Yates County 911 Cell Tower Project, Town of Dundee, Yates County, New York	C&S Companies	100%	\$2,375	9/21/2021	9/20/2022
Laurie Miroff	Cultural Resource Screening (FCC 620), 35 Quarry Road Tower Project, Town of Saugerties, Ulster County, New York	C&S Companies	100%	\$1,656	9/14/2021	9/13/2022
Laurie Miroff	Phase 1A Archaeological Assessment/Phase 1B Archaeological Survey for the proposed NY CDG Oneida 2 Solar project in the Town of Rome, Oneida County, New York	LaBella Associates	100%	\$15,985	7/30/2021	7/29/2022
Laurie Miroff	Cultural Resource Screening (FCC 620), Yates County 911 Cell Tower Project-Italy, Town of Italy, Yates County, New York	C&S Companies	100%	\$2,562	9/21/2021	9/20/2022
Laurie Miroff	Cultural Resource Screening (FCC 620), Yates County 911 Cell Tower Project-Benton, Town of Benton, Yates County, New York	C&S Companies	100%	\$2,387	9/21/2021	9/20/2022
Laurie Miroff	Dix Solar Project, Phase 1 Architectural Survey, Town of Dix, New York	C&S Companies	100%	\$3,719	10/14/2021	10/13/2022

<i><b>Proposal PI</b></i>	<i><b>Title</b></i>	<i><b>Sponsor Name</b></i>	<i><b>% Credited to PI</b></i>	<i><b>\$ Credited</b></i>	<i><b>Requested Start Date</b></i>	<i><b>Requested End Date</b></i>
Laurie Miroff	Phase 1 Archaeological Survey - Architectural Survey, Avon CSG 1 LLC Project, Livingston County, New York	C&S Companies	100%	\$4,132	11/16/2021	11/15/2022
Laurie Miroff	Phase 1 Archaeological Survey - All Subsurface Testing (STPs), Avon CSG 1 LLC Project, Livingston County, New York	C&S Companies	100%	\$18,491	11/12/2021	11/11/2022
Laurie Miroff	Cultural Resource Screening (FCC 620), Yates County 911 Celltower Project, Town of Jerusalem, Yates County, New York	C&S Companies	100%	\$1,858	11/15/2021	11/14/2022
Laurie Miroff	Cultural Resource Screening (FCC 620), Sullivan County Communication Towers Project, Sullivan County, New York	C&S Companies	100%	\$4,520	12/14/2021	12/13/2022
Laurie Miroff	Phase 1A Assessment/Phase 1B Survey, Ellisburg Dollar General Project, Village of Ellisburg, Jefferson County, New York	Capital Growth Buchalter	100%	\$3,381	7/29/2021	7/28/2022
Laurie Miroff	Phase IA/IB Archaeological Survey, Newport Dollar General Project, Village of Newport, Herkimer County, New York	Capital Growth Buchalter	100%	\$4,129	9/29/2021	9/28/2022
Laurie Miroff	Monitoring, Hawley Street Traffic Light Project, City of Binghamton, Broome County, New York	City of Binghamton	100%	\$2,977	10/6/2021	10/5/2022
Laurie Miroff	Archaeological Fieldwork: Projects in Tompkins County, Allegany County, and Orleans County, NY	Environmental Design & Research	100%	\$40,018	4/22/2022	4/21/2023
Laurie Miroff	Geophysical Survey for Time Capsule Project, Brooklyn, Susquehanna County, New York	First Universalist Church	100%	\$1,247	4/30/2022	4/29/2023
Laurie Miroff	Phase 1 Archaeological Survey, Peffer-Strong Spur 485 Project, Sullivan Township, Tioga County, PA_2021	Hanover Engineering Associates	100%	\$1,843	9/25/2021	9/24/2022
Laurie Miroff	Crego Subdivision Project, Phase 1 Archaeological Survey/Phase 2 Site Examination, Town of Van Buren, Onondaga County, New York	Brolex Properties Limited Liability Corporation	100%	\$99,698	9/10/2021	9/9/2022

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Laurie Miroff	Phase I Initial Historic Resource and Phase 1A Archaeological Assessment within the Town of Rutland, Jefferson County, New York	LaBella Associates	100%	\$5,750	6/18/2021	6/17/2022
Laurie Miroff	Phase 1A Archaeological Assessment within the Town of Wawayanda, Orange County, NY	LaBella Associates	100%	\$3,166	7/9/2021	7/8/2022
Laurie Miroff	Phase 1A Archaeological Assessments: Cayuta Van Den Hurk Solar, Cicero Rhyndland Solar, Scotch Ridge Solar and Westmoreland Utility Scale Solar Projects	LaBella Associates	100%	\$12,051	7/26/2021	7/25/2022
Laurie Miroff	Cultural Resource Screening (FCC 620), Livingston EOC Building and Monopole Project, Town of Mount Morris, Livingston County, New York	C&S Companies	100%	\$2,214	12/9/2021	12/8/2022
Maria O'Donovan	Broome County Historic Places: A Digital Heritage and Public Engagement Project	National Endowment for the Humanities	100%	\$30,000	3/1/2023	2/29/2024
			<b>Total # Credited</b>	<b>44.00</b>		
			<b>Total \$ Credited</b>	<b>\$6,227,442</b>		

## 020 Research VP

Anju Sharma	Wood-derived Composites and Plastics for the Circular Economy (FMSG-Eco:GOAL)	SUNY College of Env Sci and Forestry	100%	\$12,709	1/1/2023	12/31/2024
Jennifer Amey	Characterization of the regulation and role of a GBS colonization factor	National Institute of Allergy & Infectious Disease	5%	\$93,576	9/1/2022	8/31/2027
M Stanley Whittingham	New Energy New York: Battery-NY Center Operations and Staffing, and Lease Costs	Economic Development Administration	50%	\$2,499,716	9/1/2022	8/31/2026
M Stanley Whittingham	New Energy New York: Innovation and Entrepreneurship	Economic Development Administration	50%	\$5,491,437	9/1/2022	8/31/2025
M Stanley Whittingham	New Energy New York - Workforce Development Programs	Economic Development Administration	50%	\$7,950,681	9/1/2022	8/31/2025

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
M Stanley Whittingham	BBBRC Supply Chain Development and Qualification Program	Economic Development Administration	50%	\$2,499,031	9/1/2022	8/31/2025
M Stanley Whittingham	New Energy New York-NY Center Construction	Economic Development Administration	50%	\$17,500,000	9/1/2022	8/31/2026
M Stanley Whittingham	New Energy New York: Climate Justice and Social Equity Programs	Economic Development Administration	50%	\$1,976,651	9/1/2022	8/31/2025
Mark Poliks	MRI: Acquisition of Zeiss Xradia 3D X-Ray Microscope for Support of Research and Education at Binghamton University	National Science Foundation	34%	\$338,504	9/1/2022	8/31/2023
Srikanth Rangarajan	CHIRP 2021: Single and Two-Phase Immersion Cooling of High Heat Flux Electronics in Heterogeneous Integrated (HI) Packages. Experimental and Analytical Studies at the Device and Module Levels	Purdue University	33%	\$49,500	1/1/2022	12/31/2024
Srikanth Rangarajan	CHIRP 2021: Thermal management of heterogeneous integrated packages subjected to high heat flux using 3d printed cold plates and manifolds	Purdue University	33%	\$49,500	1/1/2022	12/31/2024
Srikanth Rangarajan	CHIRP 2021: Thermal management of transient power spikes in heterogeneously integrated (HI) packages (multi-chip modules) using embedded phase change material-based composites as thermal interface	Purdue University	100%	\$150,000	1/1/2022	12/31/2024
				<b>Total # Credited</b>	<b>6.05</b>	
				<b>Total \$ Credited</b>	<b>\$38,611,304</b>	

## 020 School Of Management

Chou-Yu Tsai	Model Development and Data Analysis for Business Idea Generation Process on Entrepreneurship Education 2022	Waseda University	50%	\$10,000	12/1/2021	2/28/2022
Chou-Yu Tsai	IGE: Enhancing Students' Knowledge-Skills-Abilities Variety via Exploration of the Orthogonal Curricular Matrix	National Science Foundation	25%	\$124,718	10/1/2022	9/30/2025

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Shelley Dionne	Model Development and Data Analysis for Business Idea Generation Process on Entrepreneurship Education 2022	Waseda University	50%	\$10,000	12/1/2021	2/28/2022
Shelley Dionne	NRT: Complex Social Systems Emergence (NRT-CSSE)	National Science Foundation	11%	\$329,878	3/1/2022	2/28/2027
			<b>Total # Credited</b>	<b>1.36</b>		
			<b>Total \$ Credited</b>	<b>\$474,596</b>		

### 020 School of Nursing Academic

Deborah Palmer	Bringing Nursing Home	International Home Care Nurses Organization	25%	\$500	1/1/2022	12/31/2022
Jodi L. Sutherland	Bringing Nursing Home	International Home Care Nurses Organization	25%	\$500	1/1/2022	12/31/2022
Lori Sprague	Bringing Nursing Home	International Home Care Nurses Organization	25%	\$500	1/1/2022	12/31/2022
Mi Jin Doe	R21: Intelligent mHealth for Real-Time Depression Detection, Prediction, and Interventions	National Institute of Mental Health	50%	\$202,195	7/1/2022	6/30/2024
Pamela Stewart-Fahs	Childhood Adversity Rural Women (GRA Elizabeth Marigliano)	Rockefeller University	100%	\$8,738	5/1/2022	4/30/2024
Patricia Reuther	Bringing Nursing Home	International Home Care Nurses Organization	25%	\$500	1/1/2022	12/31/2022
Rodney Gabel	SLP Clinical Placement Agreement - Whitney Point School District	Whitney Point Central School District	100%	\$35,999	9/1/2021	8/31/2022
Rodney Gabel	Amd 1: SLP Clinical Placement Agreement - Whitney Point School District	Whitney Point Central School District	100%	\$17,099	3/1/2022	6/30/2022
Rodney Gabel	SLP Clinical Placement Agreement - Maine Endwell School District	Maine Endwell School District	100%	\$35,999	9/1/2021	8/31/2022

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Sharon Bryant	TRIO Upward Bound Math and Sciences	US Department of Education	50%	\$894,906	9/1/2022	8/31/2027
			<b>Total # Credited</b>	<b>6.00</b>		
			<b>Total \$ Credited</b>	<b>\$1,196,936</b>		

## 020 Student Affairs V P

Sophia Givre	Binghamton University Upward Bound Program	US Department of Education	100%	\$2,627,760	6/1/2023	5/31/2028
Sophia Givre	Binghamton University Upward Bound Rural Program 2022	US Department of Education	100%	\$1,559,430	9/1/2022	8/31/2027
			<b>Total # Credited</b>	<b>2.00</b>		
			<b>Total \$ Credited</b>	<b>\$4,187,190</b>		

## 020 Systems Science and Indust Eng (SSIE)

Bing Si	R21: Towards Precise Phenotype Discovery of Obstructive Sleep Apnea with a Data-Inclusive Multi-Study Analysis Using the National Sleep Research Resource (NSRR)	National Heart Lung and Blood Institute	100%	\$242,770	7/1/2022	6/30/2024
Bing Si	Sleep and Cardiometabolic Subgroup Discovery and Risk Prediction in United States Adolescents and Young Adults: A Multi-Study Multi-Domain Analysis of NHANES and NSRR	National Heart Lung and Blood Institute	100%	\$2,479,522	4/1/2023	3/31/2028
Bing Si	Multi-Level Influences of Violence Screening in College Health Centers (R01)	University of Rhode Island	100%	\$102,921	1/1/2022	5/31/2024
Changqing Cheng	Smart Sensing and Multimodal Learning in Early Detection of Atrial Fibrillation	Sony Corporation	100%	\$100,000	6/1/2022	5/31/2023
Changqing Cheng	Multi-fidelity Simulation, Learning and Optimization towards Resilient and Sustainable Manufacturing Systems	Face Foundation: The Thomas Jefferson Fund	100%	\$10,000	9/1/2022	8/31/2024

<b><i>Proposal PI</i></b>	<b><i>Title</i></b>	<b><i>Sponsor Name</i></b>	<b><i>% Credited to PI</i></b>	<b><i>\$ Credited</i></b>	<b><i>Requested Start Date</i></b>	<b><i>Requested End Date</i></b>
Changqing Cheng	CAREER: Nonlinear Dynamics-Informed Learning and Optimal Design for Transport Networks	National Science Foundation	100%	\$569,559	4/1/2022	3/31/2027
Chao Shi	SBIR: Overtone Inc's Phase 1 SBIR proposal related to developing Naturalistic UIs and content delivery mechanism for the US Airforce	US Air Force Office of Scientific Research	100%	\$45,000	1/1/2023	12/31/2023
Christopher Greene	Building Equity Into Excellence: Recruiting, Retaining, and Supporting Black Engineering Students	National Science Foundation	34%	\$688,449	1/1/2022	12/31/2026
Christopher Greene	Complex Surface Mount Device Continual Process Improvement of Assemblies Utilizing Advanced Process Research	Smart Modular Technologies Inc	50%	\$9,357	5/16/2022	8/15/2022
Christopher Greene	Advanced Complex Surface Mount Devices Assembly Continual Process Improvement Effort	Smart Modular Technologies Inc	50%	\$9,357	5/16/2022	8/15/2022
Christopher Greene	Investigation into the Advancement for the Assembly Process of Complex Surface Mount Devices	Smart Modular Technologies Inc	50%	\$37,129	6/27/2022	6/26/2023
Daehan Won	AI-based System Integration for Process Enhancement in the Printed Circuit Board Assembly	Koh Young Technology Incorporated	33%	\$41,250	1/4/2022	1/3/2023
Daehan Won	Interactive Data Management Platform to Drive Smart Manufacturing in Fabless Semiconductor Manufacturing Chains AMD 1 22-23	Lattice Semiconductor	33%	\$42,839	5/30/2022	5/29/2023
Daehan Won	Simulation-based Business Intelligence and Analytics for Digital Transformation in Manufacturing	Zebra Technologies Enterprise Corporation	20%	\$14,617	5/24/2022	5/23/2023
Daryl Santos	Applied Research in Assembly, Reliability, and Costing for a Global Manufacturer of Electronic Equipment	Foxconn Industrial Internet dba FII USA Incorporated	33%	\$208,405	4/4/2022	4/3/2023
Daryl Santos	Failure Analysis of DRAM and Flash Memory Modules	Smart Modular Technologies Inc	50%	\$34,637	3/21/2022	3/20/2023

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Fuda Ning	Research in Materials, Assembly, and Automation in A Surface Mount Technology Company	Sanmina Corporation	50%	\$33,613	6/14/2022	6/13/2023
Fuda Ning	Real-Time Monitoring and Control of L-DED Additive Manufacturing Processes for Effective Quality Assurance	National Institute of Standards and Technology	50%	\$399,052	5/1/2022	4/30/2024
Fuda Ning	Collaborative Research: Establishing a Junior-to-Senior Level Hybrid Additive Manufacturing Course and Laboratory for Improving Undergraduate STEM Education	National Science Foundation	100%	\$99,500	9/1/2022	8/31/2025
Fuda Ning	Multi-scale mechanistic understanding of sintering behavior in extrusion-based additive manufacturing of stainless steel	National Science Foundation	50%	\$247,982	10/1/2022	9/30/2025
Fuda Ning	FMSG: CYBER: Multi-scale knowledge transferrable and explainable cyber-physical platform towards future hybrid manufacturing	National Science Foundation	33%	\$166,637	12/1/2022	11/30/2024
Fuda Ning	Research in Discrete Electronics Manufacturing and Automation	Sanmina Corporation	50%	\$33,613	6/7/2022	6/6/2023
Fuda Ning	Additive Manufacturing of Titanium Thin-wall Structures	Additive Technologies Limited Liability Corporation	100%	\$5,000	2/14/2022	8/13/2022
Hiroki Sayama	IGE: Enhancing Students' Knowledge-Skills-Abilities Variety via Exploration of the Orthogonal Curricular Matrix	National Science Foundation	25%	\$124,718	10/1/2022	9/30/2025
Hiroki Sayama	Collaborative Research: GCR: Using Convergent Modeling to Enhance Online Collective Action for Sustainable Offline Communities	National Science Foundation	17%	\$298,370	9/1/2022	8/31/2027
Hiroki Sayama	NRT: Complex Social Systems Emergence (NRT-CSSE)	National Science Foundation	11%	\$329,878	3/1/2022	2/28/2027
Hiroki Sayama	Data-Driven Community-Level Agent-Based Modeling That Integrates Behavioral and Epidemic Dynamics for COVID-19 Policy Decision Making and Education	National Science Foundation	100%	\$25,000	11/1/2021	10/31/2022



<b><i>Proposal PI</i></b>	<b><i>Title</i></b>	<b><i>Sponsor Name</i></b>	<b><i>% Credited to PI</i></b>	<b><i>\$ Credited</i></b>	<b><i>Requested Start Date</i></b>	<b><i>Requested End Date</i></b>
Hiroki Sayama	DISES: Socio-Environmental Dynamics of Emergent Inequality (SEDEI)	National Science Foundation	25%	\$399,949	9/1/2022	8/31/2027
Jia Deng	Toward Clean Manufacturing Using Electric-Field- Assisted Extrusion-Based 3D Printing	NYS Pollution Prevention Institute	100%	\$150,000	9/1/2022	8/31/2023
Krishnaswami Srihari	Investigation into the Advancement for the Assembly Process of Complex Surface Mount Devices	Smart Modular Technologies Inc	50%	\$37,129	6/27/2022	6/26/2023
Krishnaswami Srihari	Health System Transformation and Data Management Support for Nuvance Health	Nuvance Health	50%	\$67,646	9/13/2021	9/12/2022
Krishnaswami Srihari	Data Analytics for Process Evaluation and Daily Process Automation in Raymond Logistics	Raymond Corporation	34%	\$20,309	8/16/2021	8/15/2022
Krishnaswami Srihari	Efficient Development of Data Driven Models Through Hybrid DEVS/SES/Neural Network Methodology	RTsynch	33%	\$25,274	12/1/2021	11/30/2022
Krishnaswami Srihari	Research in System Integration at a New Product Introduction Facility	Sanmina Corporation	50%	\$33,619	11/22/2021	11/21/2022
Krishnaswami Srihari	Applied Research in Materials, Processes, and Automation in a Surface Mount Technology Company	Sanmina Corporation	50%	\$33,619	11/30/2021	11/29/2022
Krishnaswami Srihari	Research in Discrete Electronics Manufacturing and Automation	Sanmina Corporation	50%	\$33,613	6/7/2022	6/6/2023
Krishnaswami Srihari	Research in Materials, Assembly, and Automation in A Surface Mount Technology Company	Sanmina Corporation	50%	\$33,613	6/14/2022	6/13/2023
Krishnaswami Srihari	Failure Analysis of DRAM and Flash Memory Modules	Smart Modular Technologies Inc	50%	\$34,637	3/21/2022	3/20/2023
Krishnaswami Srihari	Healthcare Analytics and Solutions R&D at Navicent Health - AMD 2	Navicent Health	33%	\$2,970	8/16/2021	10/15/2021

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Krishnaswami Srihari	Advanced Complex Surface Mount Devices Assembly Continual Process Improvement Effort	Smart Modular Technologies Inc	50%	\$9,357	5/16/2022	8/15/2022
Krishnaswami Srihari	Developing a Predictive Model of Used Equipment Fair Market Value to Optimize Residual Setting	Raymond Corporation	34%	\$20,313	8/16/2021	8/15/2022
Krishnaswami Srihari	Support for Supply Chain Operations Performance Improvement and Cost Reduction	SUNY Downstate Medical Center	50%	\$325,703	6/1/2022	5/31/2023
Krishnaswami Srihari	Continuous Performance Improvement and System Modeling Support for TidalHealth AMD 1	TidalHealth	50%	\$34,022	12/7/2021	12/6/2022
Krishnaswami Srihari	Business Intelligence and Performance Improvement R&D (2021-2022)	United Health Services Hospitals Incorporated	50%	\$81,358	8/23/2021	8/22/2022
Krishnaswami Srihari	R&D Support for PCB/A Technology Projects at Waymo	Waymo Limited Liability Corporation	50%	\$37,399	1/3/2022	1/2/2023
Krishnaswami Srihari	Simulation-based Business Intelligence and Analytics for Digital Transformation in Manufacturing	Zebra Technologies Enterprise Corporation	20%	\$14,617	5/24/2022	5/23/2023
Krishnaswami Srihari	Complex Surface Mount Device Continual Process Improvement of Assemblies Utilizing Advanced Process Research	Smart Modular Technologies Inc	50%	\$9,357	5/16/2022	8/15/2022
Krishnaswami Srihari	Organizational Excellence Support at Christiana Care Health (2022-2023) AMD 6	Christiana Care Health Services Incorporated	33%	\$20,562	5/16/2022	5/15/2023
Krishnaswami Srihari	CFP Process Evaluation, Sortation System Improvement, and Conveyor Design Principle Study for Cost Reduction	iA	25%	\$25,108	5/16/2022	5/15/2023
Krishnaswami Srihari	Validation of Data Driven Models for Simulation	Auburn University	33%	\$59,400	9/1/2022	8/31/2024
Krishnaswami Srihari	Warehouse Operations Management and Analytics Research and Development	Bennett Distribution Services Limited Liability Corporation	34%	\$23,692	1/31/2022	1/30/2023

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Krishnaswami Srihari	Research in Quality Management in Electronics Assembly and Manufacturing	Sanmina Corporation	50%	\$33,619	11/1/2021	10/31/2022
Krishnaswami Srihari	Supporting Supply Chain Strategy Decision Science to Drive Transformational Changes	Best Buy Purchasing LLC	25%	\$17,596	3/15/2022	3/14/2023
Krishnaswami Srihari	Continuous Performance Improvement Research and Implementation at Mount Sinai Medical Center (AMD 7)	Mount Sinai Medical Center	50%	\$115,049	5/11/2022	5/10/2023
Krishnaswami Srihari	Application Engineering Support for Technical Solutions in Battery Energy Storage Systems AMD 1 2022	EOS Energy Enterprises	50%	\$19,059	5/16/2022	12/15/2022
Krishnaswami Srihari	Healthcare Practice Research and Development through Operational Planning and Simulation Modeling (AMD 1)	EwingCole	50%	\$34,728	2/1/2022	1/31/2023
Krishnaswami Srihari	Applied Research in Assembly, Reliability, and Costing for a Global Manufacturer of Electronic Equipment	Foxconn Industrial Internet dba FII USA Incorporated	34%	\$214,720	4/4/2022	4/3/2023
Krishnaswami Srihari	Battery Performance Degradation Prediction and Market Bidding Optimization Using Artificial Intelligence, Machine Learning, and Stochastic Optimization AMD 1	GE Grid Solutions	50%	\$32,297	4/18/2022	4/17/2023
Krishnaswami Srihari	Pharmacy System Design Validation and Improvement Through Data Analytics and Simulation Modeling	Innovation Associates Doing Business As iA	25%	\$99,720	5/16/2022	5/15/2023
Krishnaswami Srihari	Interactive Data Management Platform to Drive Smart Manufacturing in Fabless Semiconductor Manufacturing Chains AMD 1 22-23	Lattice Semiconductor	34%	\$44,137	5/30/2022	5/29/2023
Krishnaswami Srihari	Improving Quality, Safety, and Patient Flow and Outpatient Medication Management (AMD 5)	Memorial Sloan Kettering Cancer Center	50%	\$67,838	8/23/2021	8/22/2022
Krishnaswami Srihari	Continuous Performance Improvement Research and Implementation at Mount Sinai Medical Center (AMD 6)	Mount Sinai Medical Center	50%	\$115,049	5/14/2021	5/13/2022

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Krishnaswami Srihari	Business Process Engineering Support for Network Management Systems CMO (AMD 23)	Montefiore Hospital and Medical Center	34%	\$22,334	8/23/2021	8/22/2022
Krishnaswami Srihari	Bennett Distribution Services Operations Management and Warehouse Process Improvement	Bennett Distribution Services Limited Liability Corporation	34%	\$23,104	5/23/2022	5/22/2023
Krishnaswami Srihari	Process Analysis and Performance Excellence for Integrated Delivery Care Systems (AMD 1)	Montefiore Hospital and Medical Center	34%	\$23,370	8/16/2021	8/15/2022
Krishnaswami Srihari	Continuous Performance Improvement Research and Implementation at Mount Sinai Medical Center (AMD 5)	Mount Sinai Medical Center	50%	\$375,751	6/4/2021	6/3/2022
Krishnaswami Srihari	Development of a Virtual Environment for Pharmacy Automation Systems for Software Testing, Training and Marketing Purposes	Innovation Associates	34%	\$38,702	1/17/2022	1/16/2023
Luis Rocha	Quantifying Internalizing Disorder Risk on Social Media Using Computational Content and Network Analytics	Indiana University	100%	\$59,826	7/1/2022	6/30/2026
Luis Rocha	Transfer YR 3 Relinquished of R01LM012832: myAURA: Personalized Web Service for Epilepsy Management	National Library of Medicine	100%	\$165,581	6/1/2021	5/31/2022
Luis Rocha	NRT: Interdisciplinary Training in Complex Networks and Systems	Indiana University	100%	\$20,394	9/1/2021	8/31/2022
Mark Poliks	Roll-to-Roll (R2R) Processing of Thin Flexible Inorganic Substrates	Corning Incorporated	100%	\$80,000	1/1/2022	12/31/2022
Mark Poliks	Process Development to Assemble Leadless Semiconductor Strain Gauges onto Polyimide Substrates-AMD 2	Universal Instruments Corporation	100%	\$14,636	3/1/2022	5/31/2022
Mark Poliks	Process Development to Assemble Leadless Semiconductor Strain Gauges onto Polyimide Substrates	Universal Instruments Corporation	100%	\$30,500	8/1/2021	12/31/2021
Mark Poliks	PC7.5: Additive Methods for Fabrication of Phased Array Antenna and RF Structure on Polyimide Aerogel Dielectrics	NextFlex	100%	\$500,000	9/1/2022	11/30/2023

<b><i>Proposal PI</i></b>	<b><i>Title</i></b>	<b><i>Sponsor Name</i></b>	<b><i>% Credited to PI</i></b>	<b><i>\$ Credited</i></b>	<b><i>Requested Start Date</i></b>	<b><i>Requested End Date</i></b>
Mark Poliks	PC7.8: Safety Assessments of FHE and Enhancements for Tough Environments (Project SAFE-TE)	Sentinel Occupational Safety Incorporated	100%	\$44,999	9/1/2022	8/31/2023
Mark Poliks	Center for Rapid Heterogeneous Integration and Enabling Technologies (Rapid HI)--(Sub-in Purdue)	Purdue University	25%	\$1,300,000	1/1/2023	12/31/2027
Mark Poliks	PC7.8: Flexible Distributed Sensor System with Robust Component Attachment for Environmental Monitoring in Harsh Environments	NextFlex	100%	\$350,001	9/1/2022	8/31/2023
Mark Poliks	PC7.7: Manufacturing Approaches for Low-Cost Sustainable Single Use Medical Devices	NextFlex	100%	\$800,000	9/1/2022	8/31/2024
Mark Poliks	PC7.6: Automotive Power Electronics Module Enhanced by FHE Technologies	NextFlex	100%	\$450,000	9/1/2022	8/31/2024
Mark Poliks	Process Development to Assemble Leadless Semiconductor Strain Gauges onto Polyimide Substrates-AMD 3	Universal Instruments Corporation	100%	\$15,000	6/1/2022	8/31/2022
Mark Poliks	PC7.1: Hybrid RF Multi Chip Module (MCM) with Printed Substrates and Interconnects	NextFlex	100%	\$450,000	9/1/2022	2/29/2024
Mark Poliks	NextFlex 2021-NIST-MFGUSA-RACER-01 project for research, development, and to establish testbeds to prevent, prepare for, and respond to Coronavirus	NextFlex	100%	\$400,002	4/1/2022	3/31/2024
Mark Poliks	AM/TP Project	Lockheed Martin Corporation	100%	\$40,000	6/1/2022	11/30/2022
Mark Poliks	PC7.1: High Density Flex Interconnects for Heterogeneous System in Package (SIP) Designs	Lockheed Martin	100%	\$75,000	9/1/2022	2/29/2024
Mark Poliks	PC7.4: FHE Sensing Sheet for Structural Health Monitoring	Iowa State University	100%	\$99,999	8/22/2022	2/21/2024

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Mark Poliks	AM Electronics Testing Development	Honeywell Federal Manufacturing & Technologies LLC	100%	\$150,000	2/1/2022	7/31/2022
Mark Poliks	NextFlex New York Node - Phase 2	Empire State Development Corp	100%	\$20,000,000	1/1/2022	12/31/2028
Mark Poliks	NYSTAR Request for JUMP: Center for Rapid Heterogeneous Integration and Enabling Technologies (Rapid HI)	Empire State Development Corp	25%	\$250,000	1/1/2023	12/31/2027
Mark Poliks	Development of a Reusable, Self-enabled Smart Catheter (Sub-in CathBuddy) 2021	CathBuddy	100%	\$339,999	4/1/2022	3/31/2024
Mark Poliks	PC7.4: Scaleable Manufacturing of Soft Robots with Multimaterial Moduli Gradients and Stretchable Electronic Skin	NextFlex	100%	\$450,000	9/1/2022	2/29/2024
Mohammad Khasawneh	R&D Support for PCB/A Technology Projects at Waymo	Waymo Limited Liability Corporation	50%	\$37,399	1/3/2022	1/2/2023
Mohammad Khasawneh	Health System Transformation and Data Management Support for Nuvance Health	Nuvance Health	50%	\$67,646	9/13/2021	9/12/2022
Mohammad Khasawneh	An Interview Study on Designing of Traumatic Brain Injury Drivers' Rehabilitation Training (PI Amanda Shi)	QSR International	100%	\$25,000	5/1/2022	4/30/2024
Mohammad Khasawneh	Efficient Development of Data Driven Models Through Hybrid DEVS/SES/Neural Network Methodology	RTsynch	33%	\$25,274	12/1/2021	11/30/2022
Mohammad Khasawneh	Support for Supply Chain Operations Performance Improvement and Cost Reduction	SUNY Downstate Medical Center	50%	\$325,703	6/1/2022	5/31/2023
Mohammad Khasawneh	Continuous Performance Improvement and System Modeling Support for TidalHealth AMD 1	TidalHealth	50%	\$34,022	12/7/2021	12/6/2022
Mohammad Khasawneh	Business Intelligence and Performance Improvement R&D (2021-2022)	United Health Services Hospitals Incorporated	50%	\$81,358	8/23/2021	8/22/2022

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Mohammad Khasawneh	Healthcare Analytics and Solutions R&D at Navicent Health - AMD 2	Navicent Health	34%	\$3,060	8/16/2021	10/15/2021
Mohammad Khasawneh	Spontaneous Ideological Escalation without Leaders as a Distributed Socio-Dynamical Process	Waseda University	100%	\$9,666	7/1/2022	12/31/2022
Mohammad Khasawneh	Process Analysis and Performance Excellence for Integrated Delivery Care Systems (AMD 1)	Montefiore Hospital and Medical Center	33%	\$22,683	8/16/2021	8/15/2022
Mohammad Khasawneh	Simulation-based Business Intelligence and Analytics for Digital Transformation in Manufacturing	Zebra Technologies Enterprise Corporation	20%	\$14,617	5/24/2022	5/23/2023
Mohammad Khasawneh	How Does Diversity of Individuals Affect the Structure of Society?: A Constructive Approach Using Adaptive Networks	Waseda University	100%	\$14,499	7/1/2022	12/31/2022
Mohammad Khasawneh	Healthcare Practice Research and Development through Operational Planning and Simulation Modeling (AMD 1)	EwingCole	50%	\$34,728	2/1/2022	1/31/2023
Mohammad Khasawneh	Validation of Data Driven Models for Simulation	Auburn University	33%	\$59,400	9/1/2022	8/31/2024
Mohammad Khasawneh	Continuous Performance Improvement Research and Implementation at Mount Sinai Medical Center (AMD 6)	Mount Sinai Medical Center	50%	\$115,049	5/14/2021	5/13/2022
Mohammad Khasawneh	Organizational Excellence Support at Christiana Care Health (2022-2023) AMD 6	Christiana Care Health Services Incorporated	34%	\$21,185	5/16/2022	5/15/2023
Mohammad Khasawneh	FEASible: Sensing Factors of Environment, Activity, and Sleep to Validate Metabolic Health Burden Among Latina Women	National Institutes of Health	100%	\$291,571	1/1/2023	12/31/2027
Mohammad Khasawneh	Applied Research in Assembly, Reliability, and Costing for a Global Manufacturer of Electronic Equipment	Foxconn Industrial Internet dba FII USA Incorporated	33%	\$208,405	4/4/2022	4/3/2023
Mohammad Khasawneh	Combining Artificial Intelligence Cloud and Eye-Tracking Technology to Predict Customer Attitude to Advertisements (PI Amanda Shi)	Google LLC	100%	\$60,000	7/1/2022	6/30/2023

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Mohammad Khasawneh	Improving Quality, Safety, and Patient Flow and Outpatient Medication Management (AMD 5)	Memorial Sloan Kettering Cancer Center	50%	\$67,838	8/23/2021	8/22/2022
Mohammad Khasawneh	Business Process Engineering Support for Network Management Systems CMO (AMD 23)	Montefiore Hospital and Medical Center	33%	\$21,677	8/23/2021	8/22/2022
Mohammad Khasawneh	Continuous Performance Improvement Research and Implementation at Mount Sinai Medical Center (AMD 5)	Mount Sinai Medical Center	50%	\$375,751	6/4/2021	6/3/2022
Mohammad Khasawneh	Continuous Performance Improvement Research and Implementation at Mount Sinai Medical Center (AMD 7)	Mount Sinai Medical Center	50%	\$115,049	5/11/2022	5/10/2023
Mohammad Khasawneh	Supporting Supply Chain Strategy Decision Science to Drive Transformational Changes	Best Buy Purchasing LLC	25%	\$17,596	3/15/2022	3/14/2023
Nagendra Nagarur	Research in Quality Management in Electronics Assembly and Manufacturing	Sanmina Corporation	50%	\$33,619	11/1/2021	10/31/2022
Nagendra Nagarur	Research in System Integration at a New Product Introduction Facility	Sanmina Corporation	50%	\$33,619	11/22/2021	11/21/2022
Nagendra Nagarur	Applied Research in Materials, Processes, and Automation in a Surface Mount Technology Company	Sanmina Corporation	50%	\$33,619	11/30/2021	11/29/2022
Peter Borgesen	Allegro Microsystems Materials Testing Agreement (Project 2)	Allegro Microsystems	100%	\$4,978	12/1/2021	11/30/2022
Peter Borgesen	CHIRP 2021: Reliability of High Reliability and Low Temperature Solder Alloys	Purdue University	100%	\$150,000	1/1/2022	12/31/2024
Peter Borgesen	Allegro Microsystems Materials Testing Agreement (Project 1)	Allegro Microsystems	100%	\$2,800	9/1/2021	8/31/2022
Peter Borgesen	Allegro Microsystems AMD 1 to Testing Agreement Project 1	Allegro Microsystems	100%	\$1,868	9/1/2021	2/28/2022



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Peter Borgesen	Multi-scale mechanistic understanding of sintering behavior in extrusion-based additive manufacturing of stainless steel	National Science Foundation	50%	\$247,982	10/1/2022	9/30/2025
Sangwon Yoon	Agile Warehouse Automation in Industry 5.0: A Collaborative Solution with Human-Driven Forklifts and Automatic Guided Vehicles	Raymond Corporation	50%	\$40,153	6/1/2021	5/31/2022
Sangwon Yoon	Efficient Development of Data Driven Models Through Hybrid DEVS/SES/Neural Network Methodology	RTsynch	34%	\$26,040	12/1/2021	11/30/2022
Sangwon Yoon	Developing a Predictive Model of Used Equipment Fair Market Value to Optimize Residual Setting	Raymond Corporation	33%	\$19,715	8/16/2021	8/15/2022
Sangwon Yoon	Data Analytics for Process Evaluation and Daily Process Automation in Raymond Logistics	Raymond Corporation	33%	\$19,711	8/16/2021	8/15/2022
Sangwon Yoon	Interactive Data Management Platform to Drive Smart Manufacturing in Fabless Semiconductor Manufacturing Chains AMD 1 22-23	Lattice Semiconductor	33%	\$42,839	5/30/2022	5/29/2023
Sangwon Yoon	AI-based System Integration for Process Enhancement in the Printed Circuit Board Assembly	Koh Young Technology Incorporated	33%	\$41,250	1/4/2022	1/3/2023
Sangwon Yoon	Pharmacy System Design Validation and Improvement Through Data Analytics and Simulation Modeling	Innovation Associates Doing Business As iA	25%	\$99,720	5/16/2022	5/15/2023
Sangwon Yoon	Development of a Virtual Environment for Pharmacy Automation Systems for Software Testing, Training and Marketing Purposes	Innovation Associates	33%	\$37,564	1/17/2022	1/16/2023
Sangwon Yoon	Supporting Supply Chain Strategy Decision Science to Drive Transformational Changes	Best Buy Purchasing LLC	25%	\$17,596	3/15/2022	3/14/2023
Sangwon Yoon	Bennett Distribution Services Operations Management and Warehouse Process Improvement	Bennett Distribution Services Limited Liability Corporation	33%	\$22,425	5/23/2022	5/22/2023

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Sangwon Yoon	Validation of Data Driven Models for Simulation	Auburn University	34%	\$61,200	9/1/2022	8/31/2024
Sangwon Yoon	Warehouse Operations Management and Analytics Research and Development	Bennett Distribution Services Limited Liability Corporation	33%	\$22,995	1/31/2022	1/30/2023
Sangwon Yoon	Simulation-based Business Intelligence and Analytics for Digital Transformation in Manufacturing	Zebra Technologies Enterprise Corporation	20%	\$14,617	5/24/2022	5/23/2023
Sangwon Yoon	CFP Process Evaluation, Sortation System Improvement, and Conveyor Design Principle Study for Cost Reduction	Innovation Associates Doing Business As iA	25%	\$25,108	5/16/2022	5/15/2023
Sarah Lam	Healthcare Analytics and Solutions R&D at Navicent Health - AMD 2	Navicent Health	33%	\$2,970	8/16/2021	10/15/2021
Sarah Lam	Organizational Excellence Support at Christiana Care Health (2022-2023) AMD 6	Christiana Care Health Services Incorporated	33%	\$20,562	5/16/2022	5/15/2023
Sunghoon Chung	Crowdsourced Last Mile Delivery: Autonomous Vehicle and Human Drivers	Raymond Corporation	100%	\$100,714	5/1/2022	4/30/2023
Susan Shuxia Lu	Mitigating Ion Migration for Long-term Stability of Perovskite Solar Cells	US Department of Energy	20%	\$60,000	8/1/2022	7/31/2023
Susan Shuxia Lu	Highly Stable and Efficient Lead Free Perovskite Solar Cell	US Department of Energy	30%	\$90,000	8/1/2022	7/31/2023
Susan Shuxia Lu	High-Performance Three-Way Catalysts with Reduced Platinum Group Metal Amount and Reaction Temperatures for Natural Gas Engines	US Department of Energy	50%	\$814,525	1/1/2022	12/31/2024
Yingge Zhou	Hybrid Bioprinting of Vascularized Regenerative Tissue Scaffolds	National Science Foundation	100%	\$474,305	9/1/2022	8/31/2025
Yong Wang	Pharmacy System Design Validation and Improvement Through Data Analytics and Simulation Modeling	Innovation Associates Doing Business As iA	25%	\$99,720	5/16/2022	5/15/2023

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Yong Wang	Agile Warehouse Automation in Industry 5.0: A Collaborative Solution with Human-Driven Forklifts and Automatic Guided Vehicles	Raymond Corporation	50%	\$40,153	6/1/2021	5/31/2022
Yong Wang	Developing a Predictive Model of Used Equipment Fair Market Value to Optimize Residual Setting	Raymond Corporation	33%	\$19,715	8/16/2021	8/15/2022
Yong Wang	Data Analytics for Process Evaluation and Daily Process Automation in Raymond Logistics	Raymond Corporation	33%	\$19,711	8/16/2021	8/15/2022
Yong Wang	Process Analysis and Performance Excellence for Integrated Delivery Care Systems (AMD 1)	Montefiore Hospital and Medical Center	33%	\$22,683	8/16/2021	8/15/2022
Yong Wang	Business Process Engineering Support for Network Management Systems CMO (AMD 23)	Montefiore Hospital and Medical Center	33%	\$21,677	8/23/2021	8/22/2022
Yong Wang	Application Engineering Support for Technical Solutions in Battery Energy Storage Systems AMD 1 2022	EOS Energy Enterprises	50%	\$19,059	5/16/2022	12/15/2022
Yong Wang	Supporting Supply Chain Strategy Decision Science to Drive Transformational Changes	Best Buy Purchasing LLC	25%	\$17,596	3/15/2022	3/14/2023
Yong Wang	Bennett Distribution Services Operations Management and Warehouse Process Improvement	Bennett Distribution Services Limited Liability Corporation	33%	\$22,425	5/23/2022	5/22/2023
Yong Wang	CFP Process Evaluation, Sortation System Improvement, and Conveyor Design Principle Study for Cost Reduction	iA	25%	\$25,108	5/16/2022	5/15/2023
Yong Wang	Warehouse Operations Management and Analytics Research and Development	Bennett Distribution Services Limited Liability Corporation	33%	\$22,995	1/31/2022	1/30/2023
Yong Wang	Battery Performance Degradation Prediction and Market Bidding Optimization Using Artificial Intelligence, Machine Learning, and Stochastic Optimization AMD 1	GE Grid Solutions	50%	\$32,297	4/18/2022	4/17/2023

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Yu Jin	Pharmacy System Design Validation and Improvement Through Data Analytics and Simulation Modeling	Innovation Associates Doing Business As iA	25%	\$99,720	5/16/2022	5/15/2023
Yu Jin	Simulation-based Business Intelligence and Analytics for Digital Transformation in Manufacturing	Zebra Technologies Enterprise Corporation	20%	\$14,617	5/24/2022	5/23/2023
Yu Jin	Real-Time Monitoring and Control of L-DED Additive Manufacturing Processes for Effective Quality Assurance	National Institute of Standards and Technology	50%	\$399,052	5/1/2022	4/30/2024
Yu Jin	Development of a Virtual Environment for Pharmacy Automation Systems for Software Testing, Training and Marketing Purposes	Innovation Associates	33%	\$37,564	1/17/2022	1/16/2023
Yu Jin	CFP Process Evaluation, Sortation System Improvement, and Conveyor Design Principle Study for Cost Reduction	iA	25%	\$25,108	5/16/2022	5/15/2023
Yu Jin	FMSG: CYBER: Multi-scale knowledge transferrable and explainable cyber-physical platform towards future hybrid manufacturing	National Science Foundation	33%	\$166,637	12/1/2022	11/30/2024
Zimo Wang	FMSG: CYBER: Multi-scale knowledge transferrable and explainable cyber-physical platform towards future hybrid manufacturing	National Science Foundation	33%	\$166,687	12/1/2022	11/30/2024
				<b>Total # Credited</b>	<b>88.28</b>	
				<b>Total \$ Credited</b>	<b>\$41,179,632</b>	

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Bahgat Sammakia	Corning 2022-2023 ES2 Membership	Corning Incorporated	50%	\$25,000	3/1/2022	2/28/2023
Bahgat Sammakia	Vertiv 2021-2022 ES2 Membership	Vertiv	50%	\$8,334	12/1/2021	11/30/2022
Bahgat Sammakia	NVIDIA 2022 ES2 Membership	NVIDIA Corporation	50%	\$8,334	1/1/2022	12/31/2022

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Bahgat Sammakia	Microsoft ES2 Membership Agreement	Microsoft Corporation	50%	\$25,000	2/15/2022	2/14/2023
Bahgat Sammakia	Xilinx 2022-2027 I/UCRC ES2 Membership	Xilinx	50%	\$125,000	4/1/2022	3/31/2027
Bahgat Sammakia	CoolIT 2022-2023 ES2/IUCRC Membership Agreement	CoolIT Systems	50%	\$12,500	5/1/2022	4/30/2023
Bahgat Sammakia	Bloomberg 2022-2025 ES2/IURCR Membership	Bloomberg LP	50%	\$75,001	8/1/2022	7/31/2025
Bahgat Sammakia	BAE 2022 ES2/IUCRC Membership	BAE Systems Controls Incorporated	50%	\$30,000	4/1/2022	3/31/2023
Bahgat Sammakia	Honeywell 2022-2023 ES2/IUCRC Membership Agreement	Honeywell International Incorporated	33%	\$16,500	6/1/2022	5/31/2023
Bahgat Sammakia	Future Facilities 2021-2022 ES2 I/UCRC Membership	Future Facilities Incorporated	50%	\$12,500	8/1/2021	7/31/2022
Benson Chan	Surface Mount Technology Line (SMT) - Low Volume/High Mix	FuzeHub	100%	\$50,000	6/1/2022	5/31/2023
Kanad Ghose	Bloomberg 2022-2025 ES2/IURCR Membership	Bloomberg LP	50%	\$75,001	8/1/2022	7/31/2025
Kanad Ghose	Xilinx 2022-2027 I/UCRC ES2 Membership	Xilinx	50%	\$125,000	4/1/2022	3/31/2027
Kanad Ghose	Vertiv 2021-2022 ES2 Membership	Vertiv	50%	\$8,334	12/1/2021	11/30/2022
Kanad Ghose	NVIDIA 2022 ES2 Membership	NVIDIA Corporation	50%	\$8,334	1/1/2022	12/31/2022
Kanad Ghose	Honeywell 2022-2023 ES2/IUCRC Membership Agreement	Honeywell International Incorporated	34%	\$17,000	6/1/2022	5/31/2023

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Kanad Ghose	Future Facilities 2021-2022 ES2 I/UCRC Membership	Future Facilities Incorporated	50%	\$12,500	8/1/2021	7/31/2022
Kanad Ghose	CoolIT 2022-2023 ES2/IUCRC Membership Agreement	CoolIT Systems	50%	\$12,500	5/1/2022	4/30/2023
Kanad Ghose	BAE 2022 ES2/IUCRC Membership	BAE Systems Controls Incorporated	50%	\$30,000	4/1/2022	3/31/2023
Kanad Ghose	Corning 2022-2023 ES2 Membership	Corning Incorporated	50%	\$25,000	3/1/2022	2/28/2023
Koenraad Gieskes	TRIO Upward Bound Math and Sciences	US Department of Education	50%	\$894,906	9/1/2022	8/31/2027
Michael Testani	Smart Electronics Athletics Training Apparatus Technology Accelerator	FuzeHub	100%	\$50,000	9/1/2022	8/31/2023
Michael Testani	Energy Storage Systems Workforce Training & Internship Program	NYS Energy Research and Development Authority	34%	\$168,962	4/1/2022	3/31/2024
Miguel Baique	U-RISE at Binghamton University	National Institutes of Health	33%	\$1,018,502	4/1/2023	3/31/2028
Miguel Baique	Louis Stokes Renewal STEM Pathways and Research Alliance: State University of New York (SUNY)	University at Albany	100%	\$343,930	9/1/2022	8/31/2027
Scott Schiffres	Microsoft ES2 Membership Agreement	Microsoft Corporation	50%	\$25,000	2/15/2022	2/14/2023
Seungbae Park	Unison's participating membership in the IEEC, 2022-23	Unison Industries LLC	100%	\$5,000	4/1/2022	3/31/2023
Seungbae Park	Menlo Microsystems Participating Membership in the IEEC 2021-22	Menlo Microsystems Incorporated	100%	\$5,000	11/15/2021	11/14/2022
Seungbae Park	Prismark Participating Members 2021-22	Prismark Partners LLC	100%	\$25,000	9/1/2021	8/31/2022

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Seungbae Park	R&D Altanova Participating Membership in the IEEC, 2022-23	R&D Altanova	100%	\$5,000	6/1/2022	5/31/2023
Seungbae Park	Sanmina SCI's participating membership in the IEEC 2022-23	Sanmina Corporation	100%	\$5,000	2/15/2022	2/14/2023
Seungbae Park	Silicon Valley Materials Technology Corp. Participating Membership in the IEEC, 2021-22	Silicon Valley Materials Technology Corp.	100%	\$5,000	1/1/2022	12/31/2022
Seungbae Park	Snake Creek Laser's Participating Membership in the IEEC, 2022-23	Snake Creek Lasers LLC	100%	\$5,000	5/1/2022	4/30/2023
Seungbae Park	Xilinx Full Membership in IEEC 2022-2027	Xilinx	100%	\$2,500,000	4/1/2022	3/31/2027
Seungbae Park	Amphenol Aerospace Participating Membership 2020-2021	Amphenol Aerospace Operations	100%	\$5,000	3/1/2020	2/28/2021
Seungbae Park	Universal Instrument's Participating Membership in the IEEC 2021-22	Universal Instruments Corporation	100%	\$5,000	1/1/2022	12/31/2022
Seungbae Park	Lockheed Martin Full Membership in the IEEC 2022	Lockheed Martin	100%	\$60,000	1/1/2022	12/31/2022
Seungbae Park	SureScan's Participating Membership in the IEEC, 2021-22	SureScan Corporation	100%	\$5,000	9/15/2021	9/14/2022
Seungbae Park	Koh Young Full Membership in the IEEC, 2022-23	Koh Young Technology Incorporated	100%	\$60,000	2/1/2022	1/31/2023
Seungbae Park	Juniper's Membership in the IEEC 2022-23	Juniper Networks Incorporated	100%	\$5,000	8/1/2022	7/31/2023
Seungbae Park	Excelitas' participating membership in the IEEC 2022-23	Excelitas Technologies	100%	\$5,000	4/1/2022	3/31/2023
Seungbae Park	Dupont's Participating Membership in the IEEC, 2021-22	Dupont Speciality Products USA LLC	100%	\$5,000	10/1/2021	9/30/2022

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Seungbae Park	Corning's Full Membership in the IEEC, 2021-22	Corning Incorporated	100%	\$60,000	10/1/2021	9/30/2022
Seungbae Park	BAE's Full Membership in the IEEC, 2022	BAE Systems Controls Incorporated	100%	\$60,000	1/1/2022	12/31/2022
Seungbae Park	AVO Photonics Inc.Participating Membership in the IEEC 2021-22	AVO Photonics	100%	\$5,000	8/18/2021	8/17/2022
Seungbae Park	Applied Materials Inc.'s Participating Membership in the IEEC 2022-2023	Applied Materials	100%	\$5,000	4/5/2022	4/4/2023
Seungbae Park	Analog Devices Inc. full membership in the IEEC 2022-23	Analog Devices, Incorporated	100%	\$60,000	2/7/2022	2/6/2023
Seungbae Park	Amphenol Aerospace Participating Membership in the IEEC 2021-22	Amphenol Aerospace Operations	100%	\$5,000	3/1/2021	2/28/2022
Seungbae Park	ASE's full membership in the IEEC 2021-22	Advanced Semiconductor Engineering Incorporated	100%	\$60,000	9/1/2021	8/31/2022
Seungbae Park	Amphenol Aerospace's Participating membership in the IEEC 2022-23	Amphenol Aerospace Operations	100%	\$5,000	3/1/2022	2/28/2023
Srikanth Rangarajan	Honeywell 2022-2023 ES2/IUCRC Membership Agreement	Honeywell International Incorporated	33%	\$16,500	6/1/2022	5/31/2023

**Total # Credited**                      **38.17**  
**Total \$ Credited**                      **\$6,184,632**

<b>Total Proposals Submitted:</b>	<b>512.00</b>
<b>Total Amount Requested:</b>	<b>\$311,861,010</b>