

Sponsored Programs Proposal Submission Report

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



<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>
020 Acad Affairs Assoc Prov VP UG						
Valerie Imbruce	Using sequence of course-based research experience to increase STEM graduation	National Science Foundation	20%	\$200,000	8/1/2019	7/31/2024
Valerie Imbruce	HDR DSC: Collaborative Research: Post-industrial Social & Economic Empowerment through Data Science (SEEDS) in New York's Southern Tier	National Science Foundation	10%	\$94,346	9/1/2019	8/31/2022
			Total # Credited	0.30		
			Total \$ Credited	\$294,346		
020 Acad Affairs Prov VP						
Megan Fegley	Momentary Assessment of Research Learning Environments	University of Georgia	50%	\$32,399	9/1/2019	8/31/2022
Megan Fegley	Using sequence of course-based research experience to increase STEM graduation	National Science Foundation	20%	\$200,000	8/1/2019	7/31/2024
Nancy Stamp	Momentary Assessment of Research Learning Environments	University of Georgia	50%	\$32,399	9/1/2019	8/31/2022
Nancy Stamp	Using sequence of course-based research experience to increase STEM graduation	National Science Foundation	20%	\$200,000	8/1/2019	7/31/2024
			Total # Credited	1.40		
			Total \$ Credited	\$464,798		
020 Anthropology						
Carl Lipo	NRT: Complex Systems Training for Empowered Multidisciplinary Emergence Research and Graduate Education (CST-EMERGE)	National Science Foundation	10%	\$290,824	9/1/2019	8/31/2024

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Carl Lipo	Archaeological Overview and Assessment of the St. Gabriel's and Waggonseiler Farm Parcels, Valley Forge National Historical Park, King of Prussia, PA	National Park Service	25%	\$14,000	9/1/2019	8/31/2020
Carl Lipo	Unraveling the mystery of Poverty Point, Louisiana through the novel use of eDNA to identify past food items	Rust Family Foundation	100%	\$2,956	6/16/2019	6/15/2020
David Merriwether	MRI: Acquisition of Next Generation Sequencer for large scale sequencing of DNA and RNA from complex sources	National Science Foundation	100%	\$335,741	8/1/2019	7/31/2022
David Mixter	Building Kingship on the Preclassic Maya Frontier: Excavations at Actuncan, Belize	Rust Family Foundation	100%	\$9,980	5/1/2018	10/31/2018
Elizabeth Digangi	Doctoral Dissertation Research: Tracing Roots of Heterogeneity: Exploring Dietary Signals and Early-Life Stress in Medieval Prussia (Ariel Gruenthal-Rankin)	National Science Foundation	100%	\$24,234	2/1/2019	1/31/2021
Elizabeth Digangi	Variables Involved with Cranial Gunshot Trauma	National Institute of Justice	100%	\$1,033,278	1/1/2020	12/31/2022
Elizabeth Digangi	Fellowship Support for Emily Dew	National Institute of Justice	100%	\$58,683	1/1/2020	12/31/2021
Elizabeth Digangi	Doctoral Dissertation Research: Isotope Analysis in Modern Colombian Teeth, A Forensic Application (Daniel Castellanos)	National Science Foundation	100%	\$30,376	2/11/2019	2/10/2020
Elizabeth Digangi	Doctoral Dissertation Research: Understanding Contemporary Admixture and Population Structure in the US	National Science Foundation	100%	\$5,853	7/1/2019	4/30/2020
J Koji Lum	FW-HTF-P: Redefining Work and the Social Value System in the Post AI Era: Exploring Lessons from Traditional Economies of Vanuatu	National Science Foundation	50%	\$75,000	1/1/2020	12/31/2020
Katherine Wander	Trade-offs in Milk Immunity	American Association of Physical Anthropologists	100%	\$7,500	5/1/2019	4/30/2020

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Matthew Sanger	Archaeological Overview and Assessment of the St. Gabriel's and WaggonSeller Farm Parcels, Valley Forge National Historical Park, King of Prussia, PA	National Park Service	25%	\$14,000	9/1/2019	8/31/2020
Matthew Sanger	REU Supplement for NSF Grant #1748290	National Science Foundation	100%	\$7,306	2/21/2019	2/20/2022
Ralph Garruto	Modeling Risk of Lyme disease in built environments using ecological, demographic and behavioral risk factors	National Science Foundation	50%	\$1,249,841	5/31/2019	5/30/2024
Ruth Van Dyke	Doctoral Dissertation Research: Using Magnetometry and Multi-Image Photogrammetry to Investigate Spatial Organization and Community Identity in Two 19th Century Alsatian Migrant Towns in South Texas	National Science Foundation	100%	\$20,231	12/1/2018	11/30/2020
Timothy de Smet	Hyperspectral Drone Detection of Harmful Algal Blooms: Ground truthing new approaches for water quality assessment	Cornell University	50%	\$10,000	3/1/2019	2/29/2020
Timothy de Smet	Translational Research in Ecology and Environmental Science TREES	National Science Foundation	20%	\$97,979	8/1/2019	7/31/2022
			Total # Credited	13.30		
			Total \$ Credited	\$3,287,781		

020 Biological Sciences

Claudia Marques	Fellowship Support for Kathryn Cherny: Effect of preoperative site washing on the atopic dermatitis microbiome	National Institutes of Health	15%	\$27,987	1/1/2020	12/31/2022
David Davies	R15: Potential role for bacterial biofilms in the stability of arterial plaque	National Institute of Allergy & Infectious Disease	100%	\$450,479	4/1/2020	3/31/2023
Dennis McGee	Sequence Selective Recognition of Non-Coding RNA and Biological Activity of Triplex-Forming PNA	National Institutes of Health	20%	\$296,164	4/1/2019	3/31/2023

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Howard Chang	The role of superoxide dismutase SOD-1 in microbe-gut-brain interaction	National Institutes of Health	100%	\$1,724,640	4/1/2019	3/31/2024
James Sobel	Collaborative Research: RoL: Rapid Evolution of Reproductive Isolation via Hybrid Seed Lethality in Mimulus	National Science Foundation	100%	\$274,539	12/1/2018	11/30/2022
Jeffrey Schertzer	Control and Consequences of Cross-Species Inductions of Outer Membrane Vesicle Biogenesis	National Institutes of Health	50%	\$1,039,745	4/1/2019	3/31/2024
Jeffrey Schertzer	R15: Small-molecule membrane interactions as a driver of bacterial outer membrane vesicle biogenesis across species	National Institutes of Health	50%	\$224,100	9/1/2019	8/31/2022
Jeffrey Schertzer	Control and Consequences of Cross-Species Induction of Outer Membrane Vesicle Biogenesis	National Institute of Allergy & Infectious Disease	75%	\$1,632,285	9/1/2019	8/31/2024
Jeffrey Schertzer	R21:Synthetic Outer Membrane Vesicles as Drug Delivery Vehicles Against Bacterial Biofilms	National Institute of Allergy & Infectious Disease	50%	\$202,195	1/1/2020	12/31/2021
Jeffrey Schertzer	R21: Role of Peptidoglycan-binding Protein OprF in Outer Membrane Vesicle Biogenesis	National Institute of Allergy & Infectious Disease	100%	\$364,570	4/1/2020	3/31/2022
Jessica Hua Meindl	Translational Research in Ecology and Environmental Science TREES	National Science Foundation	20%	\$97,979	8/1/2019	7/31/2022
Jessica Hua Meindl	A Multi-Functional Nanoceramic Surface for Efficient Treatment and Reuse of Airport Deicer and Runoff Waste	NYS Department of Environmental Conservation	40%	\$40,000	9/1/2019	8/31/2020
Karin Sauer	STTR (NASA):Nanoscale Antimicrobial Coatings for Reduction of Biofilm Formation	N2 Biomedical LLC	40%	\$21,200	8/1/2019	8/31/2020
Karin Sauer	Dispersion and the biofilm matrix of Pseudomonas aeruginosa	National Institute of Allergy & Infectious Disease	100%	\$2,567,599	4/1/2020	3/31/2025
Kirsten Prior	Translational Research in Ecology and Environmental Science TREES	National Science Foundation	20%	\$97,979	8/1/2019	7/31/2022

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Kirsten Prior	Uncovering the role of altered cryptic interactions in driving the demographic success of a range-expanding species	National Science Foundation	100%	\$631,955	12/15/2019	12/14/2021
Kirsten Prior	Altered interactions for species on-the-move: comparing host-parasitoid networks throughout a species native and expanded range	National Geographic Society	50%	\$11,914	5/1/2019	4/30/2020
Laura Cook	Transcriptomic and Genetic Differences of Group A Streptococcus in Humans: Acute Infection versus Carriage	National Institutes of Health	100%	\$456,403	7/1/2019	6/30/2021
Laura Cook	Characterizing SaeRS and its regulon in GBS vaginal colonization	Graduate Women in Science	100%	\$9,985	6/1/2019	5/31/2020
Michelle Withers	Using sequence of course-based research experience to increase STEM graduation	National Science Foundation	20%	\$200,000	8/1/2019	7/31/2024
Nancy Stamp	Translational Research in Ecology and Environmental Science TREES	National Science Foundation	20%	\$97,979	8/1/2019	7/31/2022
Thomas Powell	Altered interactions for species on-the-move: comparing host-parasitoid networks throughout a species native and expanded range	National Geographic Society	50%	\$11,914	5/1/2019	4/30/2020
				Total # Credited	13.20	
				Total \$ Credited	\$10,481,609	

020 Biomedical Engineering

Ahyeon Koh	Power-on-Skin: Energy Generation from Sweat-Eating Bacteria for Self-Powered Electronic Skins	National Science Foundation	40%	\$181,032	9/1/2019	8/31/2022
Ahyeon Koh	Sweat Epifluidics Sensing Systems for Stress Monitoring	US Air Force Office of Scientific Research	40%	\$180,000	1/1/2020	12/31/2022
Ahyeon Koh	Elastomeric Papertronics	National Science Foundation	60%	\$296,570	10/1/2019	9/30/2022
Ahyeon Koh	Nanoenabled Multifunctional Transcutaneous Therapeutic Wound Care Device	Calorint Technologies LLC	100%	\$632,989	1/1/2020	12/31/2021
Ahyeon Koh	Explore How You Sweat with Lab on the Skin	Johnson and Johnson	100%	\$150,000	8/1/2019	7/31/2022

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Ahyeon Koh	Nanomesh On-Skin Oxygen Sensor for Real-time Skin Cancer Monitoring	National Science Foundation	55%	\$214,184	8/1/2019	7/31/2022
Ahyeon Koh	SWEAT: Smart Wearable and Economic Alcohol-monitoring Technology	National Institutes of Health	40%	\$161,756	8/1/2019	7/31/2021
Ahyeon Koh	On-skin Sweat Sensing System for Quality of Life Monitoring	National Science Foundation	40%	\$203,740	8/1/2019	7/31/2022
Ahyeon Koh	Stretchable Paper	National Science Foundation	60%	\$299,790	8/1/2019	7/31/2022
Gretchen Mahler	Mechanobiology of Myofibroblast Behavior in Health and Disease	National Science Foundation	25%	\$100,000	9/1/2019	8/31/2022
Gretchen Mahler	Engineering a Nephron on a Chip	National Science Foundation	100%	\$329,831	9/1/2019	8/31/2022
Gretchen Mahler	R21: A modular, pumpless gut-liver-kidney platform for kidney disease modelin	National Institutes of Health	100%	\$418,070	1/1/2020	12/31/2021
Guy German	I-Corps: Pressure Ulcer Prevention Pad	National Science Foundation	100%	\$50,000	1/28/2019	7/27/2019
Guy German	Fellowship Support for Kathryn Cherny: Effect of preoperative site washing on the atopic dermatitis microbiome	National Institutes of Health	85%	\$158,595	1/1/2020	12/31/2022
Kaiming Ye	Supplement: NSF REU Site: Undergraduate Research Experience in Biomedical Translational Science and Technology Development	National Science Foundation	100%	\$31,548	6/1/2019	5/31/2020
Kaiming Ye	Oxygenated three-dimensional stem cell differentiation	National Science Foundation	20%	\$85,479	10/1/2019	9/30/2022
Kaiming Ye	Regeneration of intra-islet vascularized pancreatic endocrine organoids from iPSCs	National Institutes of Health	50%	\$1,595,671	9/1/2019	8/31/2024
Kaiming Ye	Molecular mechanisms of tissue specific signaling for islet self-assembly	National Science Foundation	20%	\$85,643	10/1/2019	9/30/2022
Kaiming Ye	I-Corps: Cancer Vaccine Development	National Science Foundation	100%	\$50,000	7/1/2019	12/31/2019

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Kaiming Ye	MRI: Acquisition of a High-throughput Flow Cytometry for Health Science Research and Training	National Science Foundation	40%	\$138,601	8/1/2019	7/31/2022
Kaiming Ye	Education Opportunities in NASA STEM 2019	University of Illinois at Chicago	100%	\$275,000	7/1/2019	6/30/2022
Kaiming Ye	R01: Regeneration of intra-islet vascularized pancreatic endocrine organoids from iPSCs	National Institutes of Health	50%	\$1,591,508	4/1/2019	3/31/2024
Kaiming Ye	Niches for Inducible islet organogenesis from stem cell differentiation	National Science Foundation	50%	\$214,128	7/1/2019	6/30/2022
Kaiming Ye	R15: Generation of islet organoids in oxygenated scaffolds	National Inst of Biomedical Imaging and Bioenginee	50%	\$225,240	7/1/2019	6/30/2022
Sha Jin	Molecular mechanisms of tissue specific signaling for islet self-assembly	National Science Foundation	80%	\$342,571	10/1/2019	9/30/2022
Sha Jin	Niches for Inducible islet organogenesis from stem cell differentiation	National Science Foundation	50%	\$214,128	7/1/2019	6/30/2022
Sha Jin	Regeneration of intra-islet vascularized pancreatic endocrine organoids from iPSCs	National Institutes of Health	50%	\$1,595,671	9/1/2019	8/31/2024
Sha Jin	Oxygenated three-dimensional stem cell differentiation	National Science Foundation	80%	\$341,914	10/1/2019	9/30/2022
Sha Jin	R01: Regeneration of intra-islet vascularized pancreatic endocrine organoids from iPSCs	National Institutes of Health	50%	\$1,591,508	4/1/2019	3/31/2024
Sha Jin	R15: Generation of islet organoids in oxygenated scaffolds	National Inst of Biomedical Imaging and Bioenginee	50%	\$225,240	7/1/2019	6/30/2022
Sha Jin	MRI: Acquisition of a High-throughput Flow Cytometry for Health Science Research and Training	National Science Foundation	40%	\$138,601	8/1/2019	7/31/2022
Tracy Hookway	Heterotypic Contributions of Epicardial Cells to Cardiomyocyte Function and Phenotype	National Institutes of Health	100%	\$449,629	10/31/2019	10/30/2022
Tracy Hookway	Cardiac Microtissue Alignment using Extracellular Matrix and Stromal cells	American Heart Association Founders Affiliate	100%	\$5,000	5/27/2019	5/26/2020
Tracy Hookway	Investigation of EV derived from cells in microgravity	National Science Foundation	25%	\$87,727	10/1/2019	9/30/2022

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Yuan Wan	Investigation of EV derived from cells in microgravity	National Science Foundation	75%	\$263,182	10/1/2019	9/30/2022
Yuan Wan	Strategy optimization for purifying patient-derived extracellular vesicles	University of Rochester	100%	\$4,799	8/1/2019	5/31/2020
Yuan Wan	Detection of mutations in cell free DNA with duplex sequencing	Shanghai Permed Biomedical Company, Ltd.	100%	\$150,000	1/1/2019	12/31/2021
Yuan Wan	Design, fabrication and validation of LiEVchip for isolation of extracellular vesicles	Pennsylvania State University	100%	\$468,836	7/1/2019	6/30/2024
Yuan Wan	A Simple Robust Device for Rapid Efficient Isolation of Pure Extracellular Vesicles Toward Clinical Implementation	National Institutes of Health	100%	\$143,320	4/1/2020	3/31/2022
			Total # Credited	26.25		
			Total \$ Credited	\$13,691,498		

020 CCPA Deans Office

Casey Ward	Bridging Opportunities	TBD	50%	\$25,000	5/1/2019	4/30/2021
Elizabeth Anderson	Binghamton University Promise Zone Early Childhood Pilot Program	Conrad and Virginia Klee Foundation	100%	\$93,320	9/1/2018	8/31/2021
Elizabeth Mellin	Binghamton University Community Schools PLACE Initiative	US Department of Education	100%	\$2,490,670	10/1/2018	9/30/2023
Elizabeth Mellin	Binghamton University Community Schools PLACE	US Department of Education	70%	\$1,747,790	10/1/2019	9/30/2024
LuAnn Kida	Bridging Opportunities	TBD	50%	\$25,000	5/1/2019	4/30/2021
LuAnn Kida	The Timelessness of Science: Multidisciplinary STEM Learning Through Archaeology Advanced Informal Science Learning Program, Pilots and Feasibility Studies	National Science Foundation	25%	\$74,771	8/1/2019	7/31/2021
LuAnn Kida	Binghamton University Community Schools PLACE	US Department of Education	30%	\$749,053	10/1/2019	9/30/2024
LuAnn Kida	Binghamton University Community Schools Strategic Planning	United Way of Broome County Inc	100%	\$10,000	2/27/2019	2/26/2020

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LuAnn Kida	BUCS Youth Support	United Way of Broome County Inc	100%	\$34,213	7/1/2019	6/30/2020
LuAnn Kida	Community Engagement with Families on the North Side of Binghamton	United Way of Broome County Inc	100%	\$9,775	7/1/2019	6/30/2020
LuAnn Kida	BUCS Engagement Model	United Way of Broome County Inc	100%	\$20,700	7/1/2019	6/30/2020
Nadine Mastroleo	SWEAT: Smart Wearable and Economic Alcohol-monitoring Technology	National Institutes of Health	25%	\$101,098	8/1/2019	7/31/2021
			Total # Credited	8.50		
			Total \$ Credited	\$5,381,390		

020 CCPA Human Development

Oscar Gil	Vassar Time Out	Vassar College	100%	\$49,999	6/1/2019	5/31/2020
			Total # Credited	1.00		
			Total \$ Credited	\$49,999		

020 CCPA Public Administration

Pamela Mischen	NRT: Complex Systems Training for Empowered Multidisciplinary Emergence Research and Graduate Education (CST-EMERGE)	National Science Foundation	10%	\$290,824	9/1/2019	8/31/2024
			Total # Credited	0.10		
			Total \$ Credited	\$290,824		

020 CCPA Social Work

Kimberly Brimhall	R03: Improving Healthcare Quality in Rural and Socioeconomically Disadvantaged Communities	Agency for Healthcare Research and Quality	80%	\$79,062	5/1/2020	4/30/2022
Laura Bronstein	BUCS STEM-SEL: Promoting STEM Education and Social Emotional Learning through University-Assisted Community Schools	National Science Foundation	30%	\$135,000	9/1/2019	8/31/2022
Laura Bronstein	NYS Teacher Resource Center	NYS Education Department	5%	\$118,739	9/1/2019	8/31/2024

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Lisa Blitz	Improving Rural Education	Eastern Carolina University	100%	\$534,188	1/1/2019	12/31/2023
LuAnn Kida	Summer Zones of Broome County Promise Zone	Broome County Youth Bureau	100%	\$20,000	5/1/2019	4/30/2020
Miesha Marzell	Reducing Revocations Challenge	CUNY Institute for State and Local Governance	30%	\$59,999	10/1/2019	9/30/2021
Sarah Young	Increased Access to Naloxone in Rural Communities Using an Online-Based Education and Distribution Model	Centers for Disease Control and Prevention	25%	\$422,743	9/3/2019	9/2/2022
Suk-Young Kang	Consultant Services for Rural Health Network	Rural Health Network of South Central New York	25%	\$18,750	1/1/2019	12/31/2020
WOOJAE HAN	Reducing Revocations Challenge	CUNY Institute for State and Local Governance	70%	\$139,997	10/1/2019	9/30/2021
Youjung Lee	BUCS STEM-SEL: Promoting STEM Education and Social Emotional Learning through University-Assisted Community Schools	National Science Foundation	40%	\$180,000	9/1/2019	8/31/2022
				Total # Credited	5.05	
				Total \$ Credited	\$1,708,478	

020 CCPA Student Affairs

John Zilvinskis	Using Text Mining to Improve Access and Affordability of Graduate Education	Association for Institutional Research	100%	\$41,903	3/1/2019	2/29/2020
John Zilvinskis	Measuring the Academic Advising Experience for Students with Disabilities	NACADA	100%	\$5,000	5/1/2019	4/30/2020
				Total # Credited	2.00	
				Total \$ Credited	\$46,903	

020 CCPA Teaching Learning Educ Leadership

Adam Laats	The System: Joseph Lancaster and the Roots of America's Public Schools, 1800-1838	Spencer Foundation	100%	\$50,000	7/1/2019	6/30/2020
Amber Simpson	BearcatTeach Noyce Scholarship Initiative	National Science Foundation	80%	\$951,352	3/1/2019	2/29/2024

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Amber Simpson	BUCS STEM-SEL: Promoting STEM Education and Social Emotional Learning through University-Assisted Community Schools	National Science Foundation	30%	\$135,000	9/1/2019	8/31/2022
Amber Simpson	Collaborative Research: Complicating Notions of Failure in Informal Maker Education Contexts through Reflective Professional Learning	National Science Foundation	100%	\$1,060,292	1/1/2020	12/31/2022
Amber Simpson	The Timelessness of Science: Multidisciplinary STEM Learning Through Archaeology Advanced Informal Science Learning Program, Pilots and Feasibility Studies	National Science Foundation	25%	\$74,771	8/1/2019	7/31/2021
Amber Simpson	NYS Teacher Resource Center	NYS Education Department	30%	\$712,432	9/1/2019	8/31/2024
Bogum Yoon	NYS Teacher Resource Center	NYS Education Department	30%	\$712,432	9/1/2019	8/31/2024
Loretta Mason-Williams	Novice Teachers' Role, Race, and School Poverty	Spencer Foundation	100%	\$49,451	6/1/2019	5/31/2021
Loretta Mason-Williams	HDR DSC: Collaborative Research: Post-industrial Social & Economic Empowerment through Data Science (SEEDS) in New York's Southern Tier	National Science Foundation	10%	\$94,346	9/1/2019	8/31/2022
Matthew McConn	NYS Teacher Resource Center	NYS Education Department	35%	\$831,170	9/1/2019	8/31/2024
				Total # Credited	5.40	
				Total \$ Credited	\$4,671,245	

020 Chemistry

Brian Callahan	Structure determination of full Hedgehog precursor protein	Rensselaer Polytechnic Institute	50%	\$101,770	9/1/2018	8/31/2020
Brian Callahan	NCI Diversity Fellowship	Rensselaer Polytechnic Institute	100%	\$165,068	7/1/2019	11/30/2021
Christof Grewer	How to combat glutamate release by reverse transport: Mechanistic studies and development of selective efflux inhibitors	National Institutes of Health	100%	\$450,480	9/1/2019	8/31/2022

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Christof Grewer	Substrate Specificity Determinants in Nutrient Solute Carrier Transporters	Icahn School of Medicine at Mount Sinai	100%	\$482,297	7/1/2019	6/30/2024
Chuan Jian Zhong	Low-Platinum-Content Nanoalloy Catalysts: Realloying and Its Dynamic Role in Optimizing Activity and Durability under Fuel Cell Operating Condition	National Science Foundation	100%	\$492,587	12/1/2019	11/30/2022
Chuan Jian Zhong	Smart Breath-Sensor Array for Point-of-Care Screening of Lung Cancer	National Cancer Institute	70%	\$433,006	12/1/2019	11/30/2022
Chuan Jian Zhong	NSF I-Corps: High-Performance and Low-Cost Copper-Based Nanowire Pastes for Solar Panels	National Science Foundation	100%	\$50,000	3/25/2019	9/24/2019
Chuan Jian Zhong	Multifunctional Nanoprobes in Lab-on-a-Chip Sensor Platform for Multiplexed Detection of Cancer Biomarkers	National Science Foundation	100%	\$388,265	9/1/2019	8/31/2022
Chuan Jian Zhong	Room-Temperature Sinterable Conductive Copper-Nanoalloys for Scalable Manufacturing of Paper-Based Sensors	National Science Foundation	66%	\$324,557	1/1/2019	12/31/2021
Chuan Jian Zhong	Physical principles behind Frank-Kasper phases in 1D metallic nanostructures	Central Michigan University	100%	\$300,923	1/1/2019	12/31/2021
Eriks Rozners	Sequence Selective Recognition of Non-Coding RNA and Biological Activity of Triplex-Forming PNA	National Institutes of Health	80%	\$1,184,654	4/1/2019	3/31/2023
Eriks Rozners	MRI: Acquisition of a High-throughput Flow Cytometry for Health Science Research and Training	National Science Foundation	20%	\$69,300	8/1/2019	7/31/2022
Eriks Rozners	Go Green Institute at Binghamton University	Binghamton City School District	100%	\$96,999	4/1/2019	9/30/2019
Eriks Rozners	Chemical Approaches to Control the Function of Regulatory RNAs	National Institute of General Medical Sciences	100%	\$15,000	8/1/2019	12/31/2020
Eriks Rozners	Collaborative Research: Nucleobase-Modified Peptide Nucleic Acid (PNA) for Sequence Selective Triple-Helical Recognition of Non-Coding Ribonucleic Acid (RNA)	National Science Foundation	100%	\$14,067	8/1/2019	7/31/2020

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Jiye Fang	Enabling Quantum Leap: Q-AMASE-i: Discovery and Understanding of Spin Behaviors in 2D-Quantum Materials towards Quantum Computing	National Science Foundation	20%	\$4,421,820	5/1/2019	4/30/2025
Jiye Fang	SIPS: Development of Highly Efficient Perovskites with Innovative Material Concepts	US Department of Energy	50%	\$100,000	10/1/2018	3/31/2020
John Swierk	Photochemical Oxidation of Refractory Sulfur Compounds for Fuel Desulfurization	American Chemical Society	100%	\$110,000	9/1/2019	8/31/2021
Julien Panetier	CAREER: Understanding the Electronic Structure and Reactivity of Carbon Monoxide Dehydrogenase Model Systems for Carbon Dioxide Fixation	National Science Foundation	100%	\$490,960	7/1/2019	6/30/2024
Julien Panetier	Computational Modeling of Carbon Monoxide Dehydrogenase Model Systems for Carbon Dioxide Fixation	National Institute of General Medical Sciences	100%	\$429,960	7/1/2019	6/30/2022
Julien Panetier	R:15 Computational Modeling of Carbon Monoxide Dehydrogenase Model Systems for Carbon Dioxide Fixation	National Institute of General Medical Sciences	100%	\$429,960	4/1/2020	3/31/2023
M Stanley Whittingham	A Low-cost Energy Storage System (LESS) to Enable High Solar Energy Penetration into Distribution Grids	US Department of Energy	14%	\$391,502	1/1/2019	12/31/2021
M Stanley Whittingham	Binghamton Materials Science Outreach Program	Materials Research Society	100%	\$1,000	1/1/2019	12/31/2019
M Stanley Whittingham	The Stability of High Energy Density Lithium Batteries	Pacific Northwest National Laboratory	100%	\$400,001	6/1/2019	5/31/2021
Mathew Vetticatt	Acquisition of Single Length Glove Box for Air and Moisture Sensitive Experiments	National Institute of General Medical Sciences	100%	\$26,990	8/1/2019	11/30/2020
Ming An	I-Corps: pH-sensitive Prodrug for Targeted Cancer Chemotherapy	National Science Foundation	100%	\$50,000	5/5/2019	5/4/2020
Natalya Chernova	MRI: Acquisition of a Hard X-Ray PhotoElectron Spectroscopy (HAXPES) for the Institute for Materials Research (IMR) at Binghamton University (BU)	National Science Foundation	10%	\$176,000	7/1/2019	6/30/2024

<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>
Nikolay Dimitrov	Enabling Quantum Leap: Q-AMASE-i: Discovery and Understanding of Spin Behaviors in 2D-Quantum Materials towards Quantum Computing	National Science Foundation	20%	\$4,421,820	5/1/2019	4/30/2025
Omowunmi Sadik	SBIR Phase I: Greener antifungal flavocides for controlling fungal diseases in environmental samples and agricultural products	Veillance Technologies Incorporated	100%	\$75,000	1/1/2019	6/30/2019
Omowunmi Sadik	STTR Phase I: Continuous Flow Monitor to Detect Waterborne Arsenic	Quansor Corporation	50%	\$58,437	2/1/2019	1/31/2020
Omowunmi Sadik	Training the Next Generation of Health Disparity Researchers in Pain through International Collaboration and Summer Research	National Institutes of Health	100%	\$1,323,360	6/1/2019	5/31/2024
Omowunmi Sadik	A New Design and Reformulation Concept for the Development of Bio-compostable Polyethylene	Amtcor Limited	100%	\$239,384	11/30/2018	2/29/2020
Omowunmi Sadik	A New Paradigm in Objective Biomarker Discovery for Diagnosis and Prediction of Chronic Low Back Pain	National Institutes of Health	32%	\$1,051,975	9/1/2019	8/31/2024
Puja Goyal	Towards Rational Design of the Photocontrol of Calmodulin-protein interactions - R15	National Institutes of Health	100%	\$360,580	4/1/2020	3/31/2023
Sozanne Solmaz	Structure determination of full Hedgehog precursor protein	Rensselaer Polytechnic Institute	50%	\$101,770	9/1/2018	8/31/2020
Sozanne Solmaz	Structural characterization of a bi-directional transport module for nuclear positioning	National Institutes of Health	100%	\$2,911,453	12/1/2019	11/30/2024
Susan Bane Tuttle	R01: Modular construction of a multi-targeted drug delivery system	National Institute of General Medical Sciences	25%	\$385,660	5/1/2020	4/30/2024
Wei Qiang	Probing Molecular Functions of Amyloid and Membrane-Active Peptides	Camille and Henry Dreyfus Foundation Incorporated	100%	\$100,000	7/1/2019	6/30/2024
Wei Qiang	Request of a biological cryogenic transmission electron microscope	National Institutes of Health	100%	\$1,047,890	2/1/2020	1/31/2021

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Wei Qiang	Molecular Mechanisms of Membrane Disruption induced by Early-Stage Aggregation of Beta-Amyloid Peptides	National Institute of General Medical Sciences	100%	\$46,514	8/1/2019	12/31/2020
William Bernier	Advanced Separator Materials for Next Generation Batteries and Capacitors	National Science Foundation	100%	\$249,999	7/1/2019	12/31/2020
				Total # Credited	32.57	
				Total \$ Credited	\$23,971,009	

020 Computer Science

Anand Seetharam	CNS Core: Small: Design and Analysis of Caching and Forwarding Algorithms for Wireless Cache Networks	National Science Foundation	100%	\$498,932	10/1/2019	9/30/2022
Anand Seetharam	CNS Core: Small: Machine Learning Models for Wireless Channel Prediction and Application-level Performance Improvement	National Science Foundation	50%	\$249,371	10/1/2019	9/30/2022
Anand Seetharam	CPS: Small: Deep Reinforcement Learning Algorithms for Control Decision Making in Smart Grids	National Science Foundation	50%	\$177,856	12/1/2019	11/30/2022
Anand Seetharam	CPS: Small: A Scalable and Elastic Framework for Real-Time IoT Analytics Applications	National Science Foundation	25%	\$124,887	12/1/2019	11/30/2022
Arti Ramesh	CPS: Small: Deep Reinforcement Learning Algorithms for Control Decision Making in Smart Grids	National Science Foundation	50%	\$177,856	12/1/2019	11/30/2022
Arti Ramesh	CPS: Small: A Scalable and Elastic Framework for Real-Time IoT Analytics Applications	National Science Foundation	25%	\$124,887	12/1/2019	11/30/2022
Arti Ramesh	CRII: III: Interpretable Latent Relational Models for Alcohol Use Disorder	National Science Foundation	100%	\$174,968	4/1/2019	3/31/2021
Arti Ramesh	III: Small: Learning Interpretable Structured Priors for Generative Models	National Science Foundation	100%	\$497,761	10/1/2019	9/30/2022
Arti Ramesh	CNS Core: Small: Machine Learning Models for Wireless Channel Prediction and Application-level Performance Improvement	National Science Foundation	50%	\$249,371	10/1/2019	9/30/2022

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Guanhua Yan	TEMAISMONI: A Toolset Based on Emulation and AI Techniques for Securing Mobile Network Infrastructure	US Department of Homeland Security	100%	\$832,151	10/1/2019	9/30/2023
Guanhua Yan	National Critical Infrastructure Resilience Center of Excellence	University of Illinois Urbana Champaign	100%	\$110,378	9/1/2018	6/30/2019
Hui Lu	SHF: Small: Collaborative Research: Enabling Scalable, Elastic Stateful Applications in Serverless Computing	National Science Foundation	100%	\$250,000	10/1/2019	9/30/2022
Hui Lu	CNS Core: Small: Collaborative: Salvaging Commodity Operating Systems to Support Emerging Networking Technologies	National Science Foundation	100%	\$250,000	10/1/2019	9/30/2022
Hui Lu	CRII: CSR: Toward Streamlined End-to-End Storage I/O in Cloud Data Centers	National Science Foundation	100%	\$174,874	7/1/2019	6/30/2021
Hui Lu	Enabling a Secure Embedded Cloud Infrastructure via seL4	Griffiss Institute	100%	\$10,598	2/1/2019	7/31/2019
Hui Lu	CPS: Small: A Scalable and Elastic Framework for Real-Time IoT Analytics Applications	National Science Foundation	50%	\$249,773	12/1/2019	11/30/2022
Kanad Ghose	Ashlawn Energy 2019-2020 I/UCRC (ES2) Membership Agreement	Ashlawn Energy, LLC	50%	\$12,500	5/1/2019	4/30/2020
Kanad Ghose	CHIRP: Higher Voltage Package Power Delivery and Power Management Systems for High-end SiPs	Semiconductor Research Corporation	50%	\$74,999	1/1/2019	12/31/2021
Kanad Ghose	Future Facilities 2019-2020 ES2 I/UCRC Membership	Future Facilities Incorporated	50%	\$37,500	8/1/2019	7/31/2020
Kanad Ghose	Improved ECG Monitor with Capacitive Electrodes	Flex Tech Alliance	25%	\$62,500	1/1/2019	6/30/2020
Kanad Ghose	CHIRP: Exploration of Holistic Scaleout Designs Within Heterogeneous Packages for HPC/Server Processors (Proposal Number W32604)	Semiconductor Research Corporation	50%	\$74,999	1/1/2019	12/31/2021
Kanad Ghose	Microsoft 2019-2020 I/UCRC Membership	Microsoft Corporation	50%	\$25,001	8/1/2019	7/31/2020
Kartik Gopalan	Lightweight Hypervisor-level Mechanisms for Hardware-as-a-Service Platform	ITRI International Incorporated	100%	\$99,999	7/1/2018	6/30/2019

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Kenneth Chiu	Hyperspectral Drone Detection of Harmful Algal Blooms: Ground truthing new approaches for water quality assessment	Cornell University	50%	\$10,000	3/1/2019	2/29/2020
Kenneth Chiu	RI: Medium: Collaborative Research: Distributed Machine Learning and Its Accuracy, Stability and Robustness	National Science Foundation	50%	\$303,143	6/1/2019	
Kenneth Chiu	HDR DSC: Collaborative Research: Post-industrial Social & Economic Empowerment through Data Science (SEEDS) in New York's Southern Tier	National Science Foundation	10%	\$94,346	9/1/2019	8/31/2022
Kenneth Chiu	REU Supplement for NSF Grant #1761963	National Science Foundation	100%	\$16,000	5/1/2019	4/30/2020
Kenneth Chiu	Determine the influence of water quantity on water quality at an endangered dwarf wedgemussel location in Delaware River	National Park Service	100%	\$15,571	5/1/2020	4/30/2022
Kenneth Chiu	Quantum Spin Liquids for Guiding Combinatorial Optimization to Quantum Advantage	Defense Advanced Research Projects Agency (DARPA)	25%	\$306,265	11/1/2019	10/31/2023
Kyoung-Don Kang	SaTC: CORE: Small: Enhancing the Security of Active Automotive Sensors	National Science Foundation	100%	\$499,324	1/1/2020	12/31/2022
Kyoung-Don Kang	SHF: Small: A Predictive-Reactive Framework for Efficient Tail Latency Management	National Science Foundation	100%	\$442,450	10/1/2019	9/30/2022
Lei Yu	RI: Small: Diverse Behavior Learning and Understanding for Robust Autonomy	National Science Foundation	100%	\$499,610	7/1/2019	6/30/2022
Lei Yu	Intrinsically Motivated Collaborative Agents for Extracting Commonsense Knowledge	General Electric Company	100%	\$1,192,219	6/1/2019	5/31/2023
Lijun Yin	A New Paradigm in Objective Biomarker Discovery for Diagnosis and Prediction of Chronic Low Back Pain	National Institutes of Health	50%	\$1,643,712	9/1/2019	8/31/2024
Mo Sha	CNS Core: Small: Securing Industrial Wireless Sensor-Actuator Networks against Selective Jamming Attacks	National Science Foundation	100%	\$364,921	6/1/2019	5/31/2022

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Mo Sha	CNS Core: Small: Towards Secure and Adaptive IoT for Smart Home Healthcare	National Science Foundation	50%	\$250,000	10/1/2019	9/30/2022
Mo Sha	CAREER: Towards Scalable, Self-Adaptive, and Secure Industrial Wireless Sensor-Actuator Networks	National Science Foundation	100%	\$499,780	5/1/2019	4/30/2024
Mo Sha	CPS: Small: Building Self-Improving Industrial Wireless Control Systems through Deep Transfer Learning	National Science Foundation	50%	\$249,983	1/1/2020	12/31/2022
Seughee Shin	CRII: CSR: Enabling Inter-process Shared Memory for Non-volatile Main Memory	National Science Foundation	100%	\$174,983	3/1/2019	2/28/2021
Seughee Shin	Research on CPU vulnerability detection and validation	Korea University	100%	\$75,184	4/1/2019	3/31/2020
Shiqi Zhang	NRI: FND: Knowledge-based Robot Sequential Decision Making under Uncertainty	National Science Foundation	100%	\$351,374	9/1/2019	8/31/2022
Shiqi Zhang	Closed-loop Risk-adaptive Interface for Swarm-Human Partnership (CRISP)	University at Buffalo	100%	\$105,990	3/1/2019	2/29/2020
Shiqi Zhang	AI-DCL: Collaborative: Perceivable AI: Improving Self-Driving Vehicle Safety Design	National Science Foundation	100%	\$99,568	9/1/2019	8/31/2021
Shiqi Zhang	Design & Implementation of a 5G Communication System with 360 Vision Integration for Robot Navigation	Sony Corporation	25%	\$37,500	6/1/2019	5/31/2020
Shiqi Zhang	CRII: RI: Toward Integrating Learning, Reasoning, and Planning for Robot Sequential Decision-Making under Uncertainty	National Science Foundation	100%	\$174,985	2/1/2019	1/31/2021
Shiqi Zhang	RI: Medium: Collaborative Research: Spatio-Temporal Predicate Learning and Acquisition for Service Robots	National Science Foundation	100%	\$399,837	10/1/2019	9/30/2022
Weiyi Meng	III: Small: Collaborative Research: Sentiment Lexicon Integration	National Science Foundation	100%	\$199,986	10/1/2019	9/30/2022
Weiyi Meng	ELEMENTS: Collaborative Research: SACIS - Sentiment Analysis CyberInfrastructure for Science	National Science Foundation	90%	\$269,957	1/1/2020	12/31/2022

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Weiyong Dai	CRCNS Research Proposal: Collaborative Research: Global integration of brain functional networks	National Science Foundation	65%	\$517,878	9/1/2019	8/31/2022
Weiyong Dai	CAREER: Computational modeling of resting brain function	National Science Foundation	100%	\$553,916	7/1/2019	6/30/2024
Weiyong Dai	Basal Forebrain connections to the heart and mind in healthy aging	Cornell University	100%	\$125,982	10/1/2019	9/30/2024
Weiyong Dai	Identifying Heterogeneity of Bipolar Disorder Using Advanced Statistical Learning Methods	Brain and Behavior Research Foundation	100%	\$69,996	2/1/2020	1/31/2022
Xi Peng	A New Paradigm in Objective Biomarker Discovery for Diagnosis and Prediction of Chronic Low Back Pain	National Institutes of Health	3%	\$98,623	9/1/2019	8/31/2024
Xi Peng	Learning Knowledge Graphs and Ontologies for Causal Reasoning in Dynamic Military Environments and Missions	Rutgers University	100%	\$136,838	11/1/2018	10/31/2020
Xi Peng	CPS: Small: Building Self-Improving Industrial Wireless Control Systems through Deep Transfer Learning	National Science Foundation	50%	\$249,983	1/1/2020	12/31/2022
Yan Wang	SHF: Small: Collaborative Research: Software Hardware Architecture Co-design for Low-power Heterogeneous Edge Devices	National Science Foundation	100%	\$179,999	7/1/2019	6/30/2022
Yan Wang	CAREER:Secure Internet of Things Using Cross-modality Sensing	National Science Foundation	100%	\$505,850	9/1/2018	8/31/2023
Yan Wang	SCH: INT: Collaborative Research: Contactless Cardiovascular Disease Prediction and Prevention Leveraging Commodity WiFi	National Science Foundation	100%	\$300,000	8/1/2019	7/31/2023
Yan Wang	CPS: Medium: Collaborative Research: Physical Vibration-based User Input and Identification on Ubiquitous Solid Surfaces	National Science Foundation	100%	\$300,000	12/1/2019	11/30/2022
Yao Liu	CNS Core: Small: Delivering High Quality Immersive Environments via Adaptive Representations	National Science Foundation	100%	\$499,948	10/1/2019	9/30/2022

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Yao Liu	CAREER: Delivering High Quality Virtual and Augmented Environments to Resource-Restricted Platforms via Adaptive 3D Representations	National Science Foundation	100%	\$486,836	7/1/2019	6/30/2024
Yao Liu	Design & Implementation of a 5G Communication System with 360 Vision Integration for Robot Navigation	Sony Corporation	25%	\$37,500	6/1/2019	5/31/2020
Yifan Zhang	NSF Student Travel Grant for 2019 ACM/IEEE Symposium on Edge Computing (ACM/IEEE SEC)	National Science Foundation	100%	\$20,000	11/1/2019	10/31/2020
Yifan Zhang	SHF: Small: System and Development Support for Unikernel-based Embedded Lightweight Virtualization	National Science Foundation	100%	\$457,687	10/1/2019	9/30/2022
Yifan Zhang	CAREER: Empowering Edge Computing and IoT with Unikernel-based Lightweight	National Science Foundation	100%	\$488,546	7/1/2019	6/30/2024
Yifan Zhang	Travel Support for the ACM/IEEE SEC 2018 Conference	National Science Foundation	100%	\$20,000	10/15/2018	10/14/2019
Yu David Liu	CNS Core: Small: Language Runtime Support for Energy-Aware Applications	National Science Foundation	100%	\$478,592	10/1/2019	9/30/2022
Zhongfei Zhang	III: Small: On Complex Data Low-Shot Learning and Meta Learning	National Science Foundation	100%	\$499,999	10/1/2019	9/30/2022
Zhongfei Zhang	Adaptive Network Modeling of Real-World Temporal Network Dynamics	National Science Foundation	33%	\$167,801	6/1/2019	5/31/2022
				Total # Credited	53.51	
				Total \$ Credited	\$19,013,819	

020 Economics

Andreas Pape	New Frontiers in Understanding Human Concept Learning	National Science Foundation	30%	\$189,452	1/1/2019	12/31/2021
Andreas Pape	IGE: Enhancing Students' "Deep Diversity" of Knowledge and Skills via Exploration of the Orthogonal Subject-Skill Curricular Matrix	National Science Foundation	25%	\$124,999	4/1/2019	3/31/2022

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Andreas Pape	NRT: Complex Systems Training for Empowered Multidisciplinary Emergence Research and Graduate Education (CST-EMERGE)	National Science Foundation	15%	\$436,236	9/1/2019	8/31/2024
Christopher Hanes	Doctoral Dissertation Research in Economics: Do Women Gain from Access to Microcredit? Long Run Effects of an RCT in Bangladesh	National Science Foundation	50%	\$16,826	1/1/2019	12/31/2019
Plamen Nikolov	Doctoral Dissertation Research in Economics: Do Women Gain from Access to Microcredit? Long Run Effects of an RCT in Bangladesh	National Science Foundation	50%	\$16,826	1/1/2019	12/31/2019
Zili Yang	DICE/RICE Modeling Works for Yale Climate Change Research Program (YCCPR)	Yale University	100%	\$210,707	7/1/2018	6/30/2021
			Total # Credited	2.70		
			Total \$ Credited	\$995,046		

020 Electrical and Computer Engineering

David Klotzkin	Design of Non-Uniform Gratings for High-Speed Directly Modulated Devices for Optimum Side Mode Suppression Yield Over All Currents and Reduced Spatial Hole Burning	Source Photonics Incorporated	100%	\$15,003	5/1/2019	4/30/2020
David Klotzkin	Perovskite-Based Solid State Lighting Technology	National Science Foundation	50%	\$167,392	1/1/2020	12/31/2022
Emrah Akyol	CIF:Small:Strategic Communication: Concepts, Methods, and Applications	National Science Foundation	100%	\$349,999	7/1/2019	6/30/2022
Emrah Akyol	CAREER: Strategic Communication: Bounds, Methods, and Applications	National Science Foundation	100%	\$499,796	1/1/2019	12/31/2023
Linke Guo	CNS Core: Small: Towards Secure and Adaptive IoT for Smart Home Healthcare	National Science Foundation	50%	\$250,000	10/1/2019	9/30/2022
Linke Guo	STTR: Phase I: Secure and Easy User Authentication Leveraging Brainwave and Heart Signatures to Personal Memory for Older Adults With and Without Mild Cognitive Impairment	Click Care LLC	100%	\$120,000	4/1/2019	3/31/2020

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Linke Guo	DCL: SaTC: Early-Stage Interdisciplinary Collaboration: Secure Wearable Authentication Leveraging Brainwave and Heart Signatures for Older Adults	National Science Foundation	100%	\$175,000	10/1/2019	9/30/2021
Linke Guo	SpecEES: Collaborative Research: Harnessing The Crowd to Enhance Spectrum Efficiency and Security in Cellular Networks	National Science Foundation	100%	\$250,001	10/1/2019	9/30/2022
Linke Guo	SaTC: Core: Small: Collaborative: Towards Secure and Usable Wearable Authentication	National Science Foundation	100%	\$249,999	1/1/2020	12/31/2022
Miao Hu	RTML: Large: Collaborative: 3D Memristor Convolutional Kernels With Diffusive Memristor Based Liquid State Machine For Real Time Machine Learning	National Science Foundation	100%	\$499,456	12/1/2019	11/30/2022
Miao Hu	Emulator of in-memory accelerator on FPGA	TetraMem Incorporated	100%	\$200,000	11/1/2018	10/31/2019
N Eva Wu	Effects of EV Diffusion on the Power Grid: Block-Level Overload Risk in NYC	NYS Energy Research and Development Authority	25%	\$100,000	3/1/2019	2/28/2021
N Eva Wu	A Low-cost Energy Storage System (LESS) to Enable High Solar Energy Penetration into Distribution Grids	US Department of Energy	14%	\$391,502	1/1/2019	12/31/2021
Ning Zhou	A Novel Model-Assisted Measurement-based Engine for Online Estimation and Uncertainty Quantification of Behind-the-Meter Solar Generation	Bigwood Systems Incorporated	100%	\$359,830	10/1/2018	9/30/2021
Ning Zhou	An Online Hierarchical System for Assessment and Enhancement of Solar Integration Considering System Security Limits and Multi-Time-Scale VAR Resources Coordination	Cornell University	100%	\$374,999	10/1/2018	9/30/2021
Ning Zhou	A Low-cost Energy Storage System (LESS) to Enable High Solar Energy Penetration into Distribution Grids	US Department of Energy	14%	\$391,502	1/1/2019	12/31/2021
Ning Zhou	CAREER: Integrated Dynamic State Estimation for Monitoring Power Systems under High Uncertainty and Variation	National Science Foundation	100%	\$500,030	7/1/2019	6/30/2024

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Ning Zhou	Estimation of Solar PV Generation based on Net-Load and Weather Data	Bigwood Systems Incorporated	100%	\$55,162	1/1/2019	12/31/2019
Ning Zhou	Big Data Analytics for Abnormal Event Detection and Diagnosis under Uncertain Environments	US Department of Energy	45%	\$270,001	5/15/2019	5/14/2021
Ning Zhou	Online Multi-Time-Scale Control Coordination Enabled by Grid-Edge Resource Visibility for High Performance and Resilient Distribution Networks	Bigwood Systems Incorporated	100%	\$360,000	7/1/2019	6/30/2022
Pritam Das	A Low-cost Energy Storage System (LESS) to Enable High Solar Energy Penetration into Distribution Grids	US Department of Energy	14%	\$391,502	1/1/2019	12/31/2021
Pritam Das	A Family of Long Lifetime, Best-in-class Efficiency, Selectively Dimmable, Multi-Channel LED Drivers for Universal Lighting Applications	Empire State Development Corp	100%	\$200,000	1/15/2020	1/14/2022
Pritam Das	CHIRP: Higher Voltage Package Power Delivery and Power Management Systems for High-end SiPs	Semiconductor Research Corporation	50%	\$74,999	1/1/2019	12/31/2021
Pritam Das	Feasibility study of an Onboard XFC/Motor Drive System with Extended Lifetime Batteries for All-electric and Plug-in hybrid Transit Buses	NYS Energy Research and Development Authority	100%	\$175,000	5/1/2019	4/30/2020
Pritam Das	DoE SBIR: Novel Power Conversion Stage for Reliable Grid-tied Energy Storage System	Ashlawn Energy, LLC	100%	\$66,647	7/1/2019	6/30/2020
Seokheun Choi	On-Demand Paper Bio-Battery Activated by Human Body Fluid	National Science Foundation	100%	\$344,462	9/1/2019	8/31/2022
Seokheun Choi	Stretchable Paper	National Science Foundation	40%	\$199,860	8/1/2019	7/31/2022
Seokheun Choi	Power-on-Skin: Energy Generation from Sweat-Eating Bacteria for Self-Powered Electronic Skins	National Science Foundation	60%	\$271,549	9/1/2019	8/31/2022
Seokheun Choi	A Wearable Sensor Patch	Bill and Melinda Gates Foundation	100%	\$100,000	11/1/2019	4/30/2021

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Seokheun Choi	Elastomeric Papertronics	National Science Foundation	40%	\$197,713	10/1/2019	9/30/2022
Tara Dhakal	MRI: Acquisition of a Hard X-Ray PhotoElectron Spectroscopy (HAXPES) for the Institute for Materials Research (IMR) at Binghamton University (BU)	National Science Foundation	10%	\$176,000	7/1/2019	6/30/2024
Tara Dhakal	DoE SBIR: Reduced Environmental Controls in Perovskite Solar Cell Manufacturing Enabled by Vacuum-Deposited Gas Barrier Coatings	GVD Corporation	100%	\$33,000	7/1/2019	6/30/2020
Tara Dhakal	Perovskite-Based Solid State Lighting Technology	National Science Foundation	50%	\$167,392	1/1/2020	12/31/2022
Tara Dhakal	Improved ECG Monitor with Capacitive Electrodes	Flex Tech Alliance	25%	\$62,500	1/1/2019	6/30/2020
Tara Dhakal	Enabling Quantum Leap: Q-AMASE-i: Discovery and Understanding of Spin Behaviors in 2D-Quantum Materials towards Quantum Computing	National Science Foundation	20%	\$4,421,820	5/1/2019	4/30/2025
Tara Dhakal	Design & Implementation of a 5G Communication System with 360 Vision Integration for Robot Navigation	Sony Corporation	25%	\$37,500	6/1/2019	5/31/2020
Vladimir Nikulin	DURIP: Experimental Testbed for Quantum Communication Research	Department of Defense (CDMRP)	100%	\$231,802	6/15/2019	6/14/2020
Xiaohua Li	CNS Core: Small: Collaborative Research: A Robust and Scalable Fleet of Drones (FoD) Network Architecture for Wildfire Monitoring and Deterrent	National Science Foundation	50%	\$189,876	1/1/2020	12/31/2022
Xiaohua Li	Design & Implementation of a 5G Communication System with 360 Vision Integration for Robot Navigation	Sony Corporation	25%	\$37,500	6/1/2019	5/31/2020
Xiaohua Li	5G-MiWIS: A Testbed for an Environmental Resilient 5G Millimeter Wave Imaging Technology based Surveillance System	US Air Force Office of Scientific Research	50%	\$147,641	2/1/2020	1/31/2021

<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	Big Data Analytics for Abnormal Event Detection and Diagnosis under Uncertain Environments	US Department of Energy	25%	\$150,001	5/15/2019	5/14/2021
Yu Chen	5G-MiWIS: A Testbed for an Environmental Resilient 5G Millimeter Wave Imaging Technology based Surveillance System	US Air Force Office of Scientific Research	50%	\$147,641	2/1/2020	1/31/2021
Yu Chen	Real-Time Detecting Visual Layer Attacks on Video Surveillance Systems Using ENF Signals	Griffiss Institute	100%	\$61,795	6/1/2019	5/31/2020
Yu Chen	A Novel Lightweight Blockchain Architecture for Low-Cost Resilient Satellite System	Intelligent Fusion Technology Incorporated	100%	\$30,000	1/31/2019	1/30/2020
Yu Chen	GlobalChain: An Autonomous, Robust Global Material Handling Paradigm on a Hierarchical Enterprise Network Enabled by Blockchain	Toyota Material Handling North America	50%	\$107,445	6/1/2019	5/31/2020
Yu Chen	Secure Situational Awareness Surveillance against Visual Layer Attacks Leveraging a Blockchain Enabled Microservices Architecture	US Air Force Office of Scientific Research	100%	\$516,086	1/1/2019	12/31/2021
Yu Chen	CNS: Small: Collaborative Research: iSENSE: Intelligent Surveillance as an Edge Network Service	National Science Foundation	100%	\$257,902	1/1/2020	12/31/2022
Yu Chen	CNS Core: Small: Collaborative Research: A Robust and Scalable Fleet of Drones (FoD) Network Architecture for Wildfire Monitoring and Deterrent	National Science Foundation	50%	\$189,876	1/1/2020	12/31/2022
Yu Chen	FW-HTF-P: Redefining Work and the Social Value System in the Post AI Era: Exploring Lessons from Traditional Economies of Vanuatu	National Science Foundation	50%	\$75,000	1/1/2020	12/31/2020
Ziang Zhang	A Low-cost Energy Storage System (LESS) to Enable High Solar Energy Penetration into Distribution Grids	US Department of Energy	16%	\$447,431	1/1/2019	12/31/2021
Ziang Zhang	DoE SBIR: Reliable, Affordable, Resilient and Efficient PV-storage Systems (RARE PVs)	Sydem, LLC	100%	\$18,805	7/1/2019	6/30/2020
Ziang Zhang	SwitchedSource NYSEDA Subaward: Power Systems Modeling and Thermal Management	Switched Source LLC	100%	\$77,172	5/1/2019	4/30/2020

<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 **35.98**

Total \$ Credited **\$15,185,587**

020 Entrepreneurship and Innovation Partnership

Olga Petrova	I-Corps: Replenishing the skin microbiome	National Science Foundation	50%	\$25,000	10/1/2018	3/31/2019
Per Stromhaug	EDA i6 Challenge - Binghamton XCEEDs	Economic Development Administration	100%	\$749,999	9/1/2019	8/31/2022
Per Stromhaug	EDA Seed Fund Support - Greater Binghamton Fund	Economic Development Administration	100%	\$299,949	4/1/2019	3/31/2022
Per Stromhaug	I-Corps: Replenishing the skin microbiome	National Science Foundation	50%	\$25,000	10/1/2018	3/31/2019
Per Stromhaug	I-Corps: Virtual Reality Room for Education and Workforce Development	National Science Foundation	100%	\$50,000	1/1/2019	6/30/2019

Total # Credited **4.00**

Total \$ Credited **\$1,149,948**

020 Geography

Chengbin Deng	Collaborative Research: Generating Accurate and Timely Land Use Maps with Remote Sensing and Social Sensing	National Science Foundation	100%	\$151,423	6/1/2019	5/31/2022
Chengbin Deng	Urban Thermal Dynamics in Response to Urban Landscape Transitions	National Science Foundation	100%	\$256,639	9/1/2019	8/31/2023
Chengbin Deng	Conference Proposal: Conference on Global Urbanization and Agricultural Land Conservation through Remote Sensing	National Science Foundation	100%	\$48,320	7/1/2019	6/30/2020
Chengbin Deng	Understanding Agricultural-Urban Land Transitions in Asian Countries with High Risk of Cropland Loss Using Dense Satellite Time Series	University of Connecticut	100%	\$48,031	1/1/2020	12/31/2022
Chengbin Deng	ELEMENTS: Collaborative Research: SACIS - Sentiment Analysis CyberInfrastructure for Science	National Science Foundation	10%	\$29,995	1/1/2020	12/31/2022

<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>
Louisa Holmes	Impact of new tobacco and marijuana policies on health disparities among young adults	National Institutes of Health	100%	\$4,041,995	7/1/2019	6/30/2024
			Total # Credited	5.10		
			Total \$ Credited	\$4,576,403		

020 Geological Sci & Environmental Studies

Alex Nikulin	Translational Research in Ecology and Environmental Science TREES	National Science Foundation	20%	\$97,979	8/1/2019	7/31/2022
Alex Nikulin	Institutional Partnership for Student Transition in the Geosciences	National Science Foundation	25%	\$571,638	8/1/2020	7/31/2025
Jeffrey T Pietras	Institutional Partnership for Student Transition in the Geosciences	National Science Foundation	25%	\$571,638	8/1/2020	7/31/2025
Molly Patterson	Collaborative Research: The role of the Northwest Pacific Ocean in regional and Arctic-Antarctic Plio-Pleistocene climate teleconnections	National Science Foundation	100%	\$206,343	9/1/2019	8/31/2022
Molly Patterson	Institutional Partnership for Student Transition in the Geosciences	National Science Foundation	25%	\$571,638	8/1/2020	7/31/2025
Peter Knuepfer	Reconstruction of the 1865 flood in Binghamton NY	Cornell University	100%	\$9,391	3/1/2019	2/29/2020
Robert Holahan	NRT: Complex Systems Training for Empowered Multidisciplinary Emergence Research and Graduate Education (CST-EMERGE)	National Science Foundation	10%	\$290,824	9/1/2019	8/31/2024
Timothy de Smet	Open-Access Remote Sensing: Towards an Online Repository of Archaeological Geophysical Data	National Park Service	100%	\$25,000	8/15/2019	8/14/2020
Timothy de Smet	Archaeological Overview and Assessment of the St. Gabriel's and WaggonSeller Farm Parcels, Valley Forge National Historical Park, King of Prussia, PA	National Park Service	25%	\$14,000	9/1/2019	8/31/2020
Timothy de Smet	Institutional Partnership for Student Transition in the Geosciences	National Science Foundation	25%	\$571,638	8/1/2020	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>
Timothy Lowenstein	Sedimentology of halite sequences in deep hypersaline basins: New insights from the Dead Sea	US Israel Binational Science Foundation	100%	\$115,000	10/1/2019	9/30/2023
Timothy Lowenstein	Collaborative Research: Regional hydrologic and vegetation changes over the last 150 kyr in the Searles and Death Valley basins	National Science Foundation	100%	\$129,970	8/1/2019	7/31/2021
			Total # Credited	6.55		
			Total \$ Credited	\$3,175,059		

020 Harpur College Deans Office

Robert Holahan	Collaborative Research: Technological Shocks and Institutional Effectiveness under Heterogeneous Risk	National Science Foundation	100%	\$226,482	4/1/2019	3/31/2021
			Total # Credited	1.00		
			Total \$ Credited	\$226,482		

020 Health and Wellness Studies

Lina Begdache	What are the Benefits of a Mediterranean Diet on Mood?	Experiment.com	100%	\$2,134	6/6/2019	6/5/2020
Lina Begdache	Sweat Epifluidics Sensing Systems for Stress Monitoring	US Air Force Office of Scientific Research	20%	\$90,000	1/1/2020	12/31/2022
Lina Begdache	On-skin Sweat Sensing System for Quality of Life Monitoring	National Science Foundation	20%	\$101,870	8/1/2019	7/31/2022
Lina Begdache	Personalizing Dietary and Lifestyle Factors Assessment for Mental Health Optimization	National Institute for Nursing Research	50%	\$209,035	7/1/2019	6/30/2021
			Total # Credited	1.90		
			Total \$ Credited	\$403,039		

020 Health Outcomes and Administrative Sciences

Leon Cosler	Consultant Services for Rural Health Network	Rural Health Network of South Central New York	25%	\$18,750	1/1/2019	12/31/2020
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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>
Leon Cosler	R01: A Social Marketing and Participatory Modeling Approach for Optimizing Use of Antibiotics for Acute Respiratory Tract Infections	Agency for Healthcare Research and Quality	25%	\$544,554	4/1/2020	3/31/2025
Utkarsh Dang	Defining serum biomarkers of early-age severity for Duchenne Muscular Dystrophy: Statistical research using vamorolone 002 data.	Foundation to Eradicate Duchenne	100%	\$31,000	5/20/2019	5/19/2020
Utkarsh Dang	Identification and Validation of Serum Protein Biomarkers in Children with Juvenile Dermatomyositis	Ann & Robert Lurie Children's Hospital of Chicago	50%	\$267,993	7/1/2019	6/30/2024
Utkarsh Dang	Investigating different rates of disease progression in Duchenne muscular dystrophy.	American Association of Colleges of Pharmacy	100%	\$10,001	2/1/2019	1/31/2020
Utkarsh Dang	Definition of serum biomarkers in DMD that predict vamorolone response	Muscular Dystrophy Association of America	50%	\$150,000	7/1/2019	6/30/2022
Utkarsh Dang	Pilot trial of vamorolone for the treatment of Becker muscular dystrophy	University of Pittsburgh	50%	\$33,097	12/1/2019	11/30/2022
				Total # Credited	4.00	
				Total \$ Credited	\$1,055,395	

020 Library Administration

Edward Shephard	2018-2019 Library Collections Aid	NYS Education Department	100%	\$21,929	7/1/2018	6/30/2019
Heather Parks	2018-2019 Conservation & Preservation Program Grant	NYS Education Department	100%	\$61,880	4/1/2018	3/31/2019
				Total # Credited	2.00	
				Total \$ Credited	\$83,809	

020 Mathematical Sciences

Alexander Borisov	Binghamton University Graduate Conference in Algebra and Topology	National Science Foundation	100%	\$36,250	10/28/2019	10/27/2022
Alexander Borisov	Collaborative Research: Upstate Number Theory Conference	National Science Foundation	100%	\$19,995	4/1/2019	3/31/2024

<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>
Alexander Borisov	Geometric Approach to the Two-Dimensional Jacobian Conjecture	National Science Foundation	100%	\$217,602	6/1/2019	5/31/2022
Cary Malkiewich	Equivariant stable homotopy theory applied to fixed-point theory and manifolds	National Science Foundation	100%	\$346,005	9/1/2019	8/31/2022
Eugenia Sapir	Combinatorial Teichmuller Theory	National Science Foundation	100%	\$214,853	9/1/2019	8/31/2022
Gang Zhou	Blowup Problems In Keller-Segel Model of Chemotaxis, and formation of singularities and flow through singularities in geometric flows	National Science Foundation	100%	\$141,748	7/1/2019	6/30/2022
Laura Anderson	BearcatTeach Noyce Scholarship Initiative	National Science Foundation	20%	\$237,838	3/1/2019	2/29/2024
Marcin Mazur	Binghamton University Graduate Conference in Algebra and Topology (BUGCAT) October 2018	National Science Foundation	100%	\$6,860	9/1/2018	8/31/2019
Mei-Hsiu Chen	Consultant Services for Rural Health Network	Rural Health Network of South Central New York	25%	\$18,750	1/1/2019	12/31/2020
Mei-Hsiu Chen	Mechanobiology of Myofibroblast Behavior in Health and Disease	National Science Foundation	25%	\$100,000	9/1/2019	8/31/2022
Mei-Hsiu Chen	R01: A Social Marketing and Participatory Modeling Approach for Optimizing Use of Antibiotics for Acute Respiratory Tract Infections	Agency for Healthcare Research and Quality	10%	\$217,822	4/1/2020	3/31/2025
Pedro Ontaneda	Problems in negative and nonpositive curvature and other questions	National Science Foundation	100%	\$245,019	7/1/2019	6/30/2022
Sanjeena Dang	Efficient algorithms for clustering skewed and discrete high dimensional data	Simons Foundation	100%	\$42,000	9/1/2019	8/31/2024
Xingye Qiao	Towards more reliable statistical learning	Simons Foundation	100%	\$42,000	9/1/2019	8/31/2024
Xingye Qiao	Identifying Novel Drug Targets and Pathways in Ovarian Cancer Using Data Analytics	Case Western Reserve University	100%	\$21,553	12/1/2019	11/30/2021
Xingye Qiao	NRT: Complex Systems Training for Empowered Multidisciplinary Emergence Research and Graduate Education (CST-EMERGE)	National Science Foundation	10%	\$290,824	9/1/2019	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>
Xingye Qiao	HDR DSC: Collaborative Research: Post-industrial Social & Economic Empowerment through Data Science (SEEDS) in New York's Southern Tier	National Science Foundation	50%	\$471,728	9/1/2019	8/31/2022
Xingye Qiao	Big Data Analytics for Abnormal Event Detection and Diagnosis under Uncertain Environments	US Department of Energy	30%	\$180,001	5/15/2019	5/14/2021
Xingye Qiao	RI: Medium: Collaborative Research: Distributed Machine Learning and Its Accuracy, Stability and Robustness	National Science Foundation	50%	\$303,144	6/1/2019	
Xingye Qiao	CRCNS Research Proposal: Collaborative Research: Global integration of brain functional networks	National Science Foundation	20%	\$159,347	9/1/2019	8/31/2022
Xingye Qiao	Adaptive Network Modeling of Real-World Temporal Network Dynamics	National Science Foundation	33%	\$167,801	6/1/2019	5/31/2022
Xingye Qiao	Set-valued Multicategory Classification with Confidence: Method, Theory and Applications	National Science Foundation	100%	\$294,360	6/1/2019	5/31/2022
			Total # Credited	14.73		
			Total \$ Credited	\$3,775,500		

020 Mechanical Engineering

Bahgat Sammakia	CHIRP: Direct Liquid and Two-Phase Cooling of High Heat Flux Electronics in Heterogeneous Integrated Packages (HIPS)	Semiconductor Research Corporation	100%	\$149,998	10/5/2018	10/4/2021
Bahgat Sammakia	CHIRP: Optimized Thermal Design for Stacked Dies	CNSE University of Albany	100%	\$75,000	1/1/2019	12/31/2021
Bahgat Sammakia	CHIRP: Exploration of Holistic Scaleout Designs Within Heterogeneous Packages for HPC/Server Processors (Proposal Number W32604)	Semiconductor Research Corporation	50%	\$74,999	1/1/2019	12/31/2021
Bahgat Sammakia	CHIRP: Minimizing Thermal Interfacial Resistance in Heterogeneously Integrated Packages (HIPS): Benchmarking and a Scalable Microspring Thermal Spanner	Semiconductor Research Corporation	25%	\$37,500	1/1/2019	12/31/2021

<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>
Bruce Murray	Mechanobiology of Myofibroblast Behavior in Health and Disease	National Science Foundation	25%	\$100,000	9/1/2019	8/31/2022
Changhong Ke	SUNY Binghamton Space Grant 2019-20 Proposal	Cornell University	100%	\$10,000	5/1/2019	4/30/2020
Congrui Jin	Mechanics in Hydraulic Fracturing	American Chemical Society	100%	\$110,000	9/1/2019	8/31/2021
Congrui Jin	Mechanics in Hydrogen Production	Battelle Energy Alliance LLC	100%	\$15,212	4/29/2019	9/28/2019
Congrui Jin	CAREER: Fungi-Mediated Self-Healing Concrete for Sustainable and Resilient Infrastructure	National Science Foundation	100%	\$499,999	7/1/2019	6/30/2024
Guangwen Zhou	DMREF: Collaborative Research: Data-Driven Modeling and Experimental Validation to Establish Novel Alloy-Design Approaches via Minor-Element Additions	National Science Foundation	100%	\$360,001	9/1/2019	8/31/2023
Guangwen Zhou	Enabling Quantum Leap: Q-AMASE-i: Discovery and Understanding of Spin Behaviors in 2D-Quantum Materials towards Quantum Computing	National Science Foundation	20%	\$4,421,820	5/1/2019	4/30/2025
Guangwen Zhou	PNNL Subcontract - Materials Synthesis and Simulations Across Scales (MS3), Richland, WA, USA	Battelle Memorial Institute	100%	\$78,908	10/1/2018	9/30/2020
Guangwen Zhou	Collaborative Research: Coordinated In-situ Dynamic Experiments and Atomistic Modeling of Surface Segregation in Alloys	National Science Foundation	100%	\$311,010	5/1/2019	4/30/2022
Guangwen Zhou	Scanning Frequency-Domain Thermography for Quality Additive Manufacturing	US Navy Office of Naval Research	50%	\$150,000	3/1/2019	2/28/2022
Guangwen Zhou	MRI: Acquisition of a Hard X-Ray PhotoElectron Spectroscopy (HAXPES) for the Institute for Materials Research (IMR) at Binghamton University (BU)	National Science Foundation	10%	\$176,000	7/1/2019	6/30/2024
James Pitarresi	Using sequence of course-based research experience to increase STEM graduation	National Science Foundation	20%	\$200,000	8/1/2019	7/31/2024

<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>
Junghyun Cho	Conformal Coating Tin Whiskers	Honeywell Federal Manufacturing - Technologies LLC	100%	\$75,000	10/1/2018	9/30/2019
Junghyun Cho	GOALI: In-Situ Composites of Bi-Sb-Cu Alloys for New High-Temperature Pb-Free Solders	National Science Foundation	100%	\$396,443	7/1/2019	6/30/2022
Junghyun Cho	A Multi-Functional Nanoceramic Surface for Efficient Treatment and Reuse of Airport Deicer and Runoff Waste	NYS Department of Environmental Conservation	60%	\$60,000	9/1/2019	8/31/2020
Junghyun Cho	STTR (NASA):Nanoscale Antimicrobial Coatings for Reduction of Biofilm Formation	N2 Biomedical LLC	60%	\$31,800	8/1/2019	8/31/2020
Paul Chiarot	Control and Consequences of Cross-Species Inductions of Outer Membrane Vesicle Biogenesis	National Institutes of Health	50%	\$1,039,745	4/1/2019	3/31/2024
Paul Chiarot	Control and Consequences of Cross-Species Induction of Outer Membrane Vesicle Biogenesis	National Institute of Allergy & Infectious Disease	25%	\$544,095	9/1/2019	8/31/2024
Paul Chiarot	R21:Synthetic Outer Membrane Vesicles as Drug Delivery Vehicles Against Bacterial Biofilms	National Institute of Allergy & Infectious Disease	50%	\$202,195	1/1/2020	12/31/2021
Paul Chiarot	Capillary-Assisted Printing of Structured Colloidal Monolayers	National Science Foundation	33%	\$165,000	1/1/2020	12/31/2022
Pong-Yu Huang	Mechanobiology of Myofibroblast Behavior in Health and Disease	National Science Foundation	25%	\$100,000	9/1/2019	8/31/2022
Pong-Yu Huang	Capillary-Assisted Printing of Structured Colloidal Monolayers	National Science Foundation	33%	\$165,000	1/1/2020	12/31/2022
Ronald Miles	Discovering Capacitive Shock Sensing with Electrostatic Tunability	National Science Foundation	50%	\$277,713	9/1/2019	8/31/2022
Ronald Miles	INTERN DCL: A New Approach to Capacitive Sensing: Repulsive Sensors	National Science Foundation	50%	\$27,500	3/1/2019	8/31/2019
Ronald Miles	R21: A High Resolution, Compact Atomic Force Microscope for Biological Sample Imaging	National Institute of General Medical Sciences	50%	\$203,245	9/1/2020	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>
Scott Schiffres	CAREER: Intermetallic Interfacial Thermal Transport for Advanced Electronics Manufacturing	National Science Foundation	100%	\$500,001	1/1/2019	12/31/2023
Scott Schiffres	CHIRP:Minimizing Thermal Interfacial Resistance in Heterogeneously Integrated Packages (HIPS): Benchmarking and a Scalable Microspring Thermal Spanner	Semiconductor Research Corporation	50%	\$74,999	1/1/2019	12/31/2021
Scott Schiffres	Scanning Frequency-Domain Thermography for Quality Additive Manufacturing	US Navy Office of Naval Research	50%	\$150,000	3/1/2019	2/28/2022
Scott Schiffres	Enhanced Optical Materials for Metal Powders Used in Additive Manufacturing Application	ChromaNano Tech LLC	100%	\$34,999	6/1/2019	11/30/2019
Scott Schiffres	Enhanced Optical Materials for Metal Powders Used in Additive Manufacturing Application	US Air Force Research Laboratory	100%	\$25,000	7/1/2019	6/30/2020
Scott Schiffres	I-Corps: Additive Laser Metal Deposition onto Silicon for Enhanced Electronics Cooling	National Science Foundation	100%	\$50,000	7/1/2019	6/30/2020
Seungbae Park	Advanced Modeling and Simulation for Packaging Reliability	Analog Devices, Incorporated	100%	\$74,999	8/26/2019	8/25/2020
Seungbae Park	Development of Pick and Placement Machine On/Offline Optimization and Diagnosis Modules in the Printed Circuit Board Assembly Process	Koh Young Technology Incorporated	50%	\$180,000	1/31/2019	1/30/2022
Seungbae Park	Planning IUCRC SUNY at Binghamton: Center for Smart Electronics Manufacturing (CSEM)	National Science Foundation	100%	\$15,001	10/1/2019	9/30/2020
Seungbae Park	Anaren Inc. Participating Membership in the IEEC 2019-2020	Anaren Incorporated	100%	\$5,000	7/2/2019	7/1/2020
Seungbae Park	IUCRC Pre-proposal Planning SUNY at Binghamton: Center for Smart Electronics Manufacturing (CSEM)	National Science Foundation	100%	\$15,000	1/1/2020	12/31/2020
Seungbae Park	CHIRP:Minimizing Thermal Interfacial Resistance in Heterogeneously Integrated Packages (HIPS): Benchmarking and a Scalable Microspring Thermal Spanner	Semiconductor Research Corporation	25%	\$37,500	1/1/2019	12/31/2021
Seungbae Park	Investigating Temperature and Time Dependent Behavior of Packaging Materials	Analog Devices, Incorporated	100%	\$75,000	2/11/2019	2/10/2020

<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	Air-Deployable Cost-Effective Organic Radiation Nodes (ACORN) GE Sub-In	General Electric Global Research	100%	\$150,000	2/1/2020	1/31/2022
Shahrzad Towfighian	CAREER: MEMS High Voltage Triboelectric Levitation: A Generactuator	National Science Foundation	100%	\$500,000	1/1/2019	12/31/2023
Shahrzad Towfighian	Discovering Capacitive Shock Sensing with Electrostatic Tunability	National Science Foundation	50%	\$277,713	9/1/2019	8/31/2022
Shahrzad Towfighian	MEMS High Voltage Triboelectric Levitation: A Generactuator	National Science Foundation	100%	\$429,134	9/1/2019	8/31/2022
Shahrzad Towfighian	INTERN DCL: A New Approach to Capacitive Sensing: Repulsive Sensors	National Science Foundation	50%	\$27,500	3/1/2019	8/31/2019
Shahrzad Towfighian	R21: A High Resolution, Compact Atomic Force Microscope for Biological Sample Imaging	National Institute of General Medical Sciences	50%	\$203,245	9/1/2020	8/31/2022
Xin Yong	Bioinspired Photonic Glasses for Adaptive Structural Colors	Sony Corporation	100%	\$100,000	6/1/2019	5/31/2020
Xin Yong	Capillary-Assisted Printing of Structured Colloidal Monolayers	National Science Foundation	34%	\$170,000	1/1/2020	12/31/2022
Xin Yong	Collaborative Research: Understand Janus Particle Assembly Assisted by Surface Active Molecules	National Science Foundation	100%	\$232,842	7/1/2019	6/30/2022
Xin Yong	CAREER: Surfactant-Induced Emergent Behavior in Active Matter	National Science Foundation	100%	\$500,001	7/1/2019	6/30/2024
Xin Yong	R15: Small-molecule membrane interactions as a driver of bacterial outer membrane vesicle biogenesis across species	National Institutes of Health	50%	\$224,100	9/1/2019	8/31/2022
			Total # Credited	36.95		
			Total \$ Credited	\$14,110,215		

020 Pharmaceutical Sciences

Aaron Beedle	Improve Regeneration in Muscular Dystrophy by Targeting HIF2A in Satellite Cells	University of Georgia	100%	\$104,048	8/1/2019	7/31/2022
Aaron Beedle	Improve Regeneration in Muscular Dystrophy by Targeting HIF2A in Satellite Cells	University of Georgia	100%	\$106,083	2/1/2019	1/31/2022

<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>
Anthony DiPasqua	Nanomesh On-Skin Oxygen Sensor for Real-time Skin Cancer Monitoring	National Science Foundation	45%	\$175,242	8/1/2019	7/31/2022
Bennett Doughty	Increased Access to Naloxone in Rural Communities Using an Online-Based Education and Distribution Model	Centers for Disease Control and Prevention	25%	\$422,743	9/3/2019	9/2/2022
Eric Hoffman	Definition of serum biomarkers in DMD that predict vamorolone response	Muscular Dystrophy Association of America	50%	\$150,000	7/1/2019	6/30/2022
Jennifer Peterson	Chromatin Remodeling Mechanisms by BPTF in Heart Failure	Masonic Medical Research Institute	100%	\$67,323	9/1/2019	8/31/2024
Kanneboyina Nagaraju	R21: Teaching an old drug new tricks: Cell-specific delivery of dexamethasone for the treatment of arthritis	National Institutes of Health	33%	\$137,963	9/1/2019	8/31/2021
Kanneboyina Nagaraju	Targeting glucocorticoids to leukocytes for the treatment of lupus	National Institute of Allergy & Infectious Disease	50%	\$215,875	7/1/2019	6/30/2021
Kanneboyina Nagaraju	Effect of immunomodulatory treatments on immune response after gene correction in DMD	Parent Project for Muscular Dystrophy Research Inc	100%	\$329,005	1/1/2019	12/31/2020
Kanneboyina Nagaraju	Synergistic Combination Therapy for Duchenne Muscular Dystrophy	Muscular Dystrophy Association of America	50%	\$150,001	9/1/2019	8/31/2022
Katie Edwards	A non-invasive point-of-care assay for monitoring titin levels in DMD patients	Childrens Research Institute	100%	\$72,800	11/1/2018	10/31/2019
Katie Edwards	Synergistic Combination Therapy for Duchenne Muscular Dystrophy	Muscular Dystrophy Association of America	50%	\$150,001	9/1/2019	8/31/2022
L. Nathan Tumey	R01: Modular construction of a multi-targeted drug delivery system	National Institute of General Medical Sciences	50%	\$771,320	5/1/2020	4/30/2024
L. Nathan Tumey	R03: "Molecular whack-a-mole": Targeting transmembrane-TNF?or the delivery of anti-inflammatory drugs	National Institutes of Health	100%	\$157,000	12/1/2019	11/30/2021
L. Nathan Tumey	R21: Protease activated esters: A new ADC linker system for the release of alcohols	National Institute of General Medical Sciences	70%	\$302,225	3/5/2019	3/4/2021

<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>
L. Nathan Tumey	R21: Teaching an old drug new tricks: Cell-specific delivery of dexamethasone for the treatment of arthritis	National Institutes of Health	34%	\$142,144	9/1/2019	8/31/2021
L. Nathan Tumey	R15: Cell-specific blockage of TLR activation: A new strategy for addressing inflammatory disorders	National Institutes of Health	100%	\$450,480	9/1/2019	8/31/2022
L. Nathan Tumey	Targeting glucocorticoids to leukocytes for the treatment of lupus	National Institute of Allergy & Infectious Disease	50%	\$215,875	7/1/2019	6/30/2021
L. Nathan Tumey	Blockage of TLR-mediated signaling as a potential treatment of lupus	Department of Defense (CDMRP)	100%	\$149,999	7/1/2019	6/30/2020
L. Nathan Tumey	R15: Synthesis and optimization of antibody:DNAi conjugates targeting the MYC G4	National Cancer Institute	50%	\$185,675	4/1/2020	3/31/2023
Nathan Tumey	SBIR Phase I: Novel electrochemical instrument for facile antibody drug conjugate construction	Ligare Biotechnologies Incorporated	100%	\$15,700	1/1/2019	12/31/2019
Nathan Tumey	The identification of lysosomal-selective proteolytically cleavable linkers	Takeda Pharmaceuticals International Incorporated	100%	\$262,360	9/3/2018	3/2/2020
Nathan Tumey	The design and evaluation of alcohol-releasing self-immolative ADC spacers	Takeda Pharmaceuticals International Incorporated	100%	\$238,982	9/3/2018	3/2/2020
Nathan Tumey	ADC-mediated delivery of IRAK4 inhibitors for the treatment of autoimmune diseases	American Association of Colleges of Pharmacy	100%	\$10,000	2/1/2019	1/31/2020
Nathan Tumey	Efficacy of MYC-G4 Targeted DNAi and Vamorolone for Aggressive Non- Hodgkin Lymphoma	Department of Defense (CDMRP)	34%	\$213,520	7/1/2019	6/30/2021
Tracy Brooks	STH Hemp Extract Activity and Safety	Southern Tier Hemp LLC	100%	\$301,860	7/1/2019	6/30/2021
Tracy Brooks	Enhancing therapies for Aggressive Non-Hodgkin Lymphoma: Targeted inhibition of NF-kB and MYC	National Cancer Institute	100%	\$135,000	7/1/2019	6/30/2020
Tracy Brooks	R01: Modular construction of a multi-targeted drug delivery system	National Institute of General Medical Sciences	25%	\$385,660	5/1/2020	4/30/2024
Tracy Brooks	Hemp oil extract: testing for safety and efficacy as an anti-cancer, anti-inflammatory, and anti-seizure medication	John Curtin	100%	\$249,999	4/1/2019	3/31/2021

<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>
Tracy Brooks	Efficacy of MYC-G4 Targeted DNAi and Vamorolone for Aggressive Non- Hodgkin Lymphoma	Department of Defense (CDMRP)	66%	\$414,480	7/1/2019	6/30/2021
Tracy Brooks	R21: Protease activated esters: A new ADC linker system for the release of alcohols	National Institute of General Medical Sciences	30%	\$129,525	3/5/2019	3/4/2021
Tracy Brooks	R15: Synthesis and optimization of antibody:DNAi conjugates targeting the MYC G4	National Cancer Institute	50%	\$185,675	4/1/2020	3/31/2023
William Eggleston	Increased Access to Naloxone in Rural Communities Using an Online-Based Education and Distribution Model	Centers for Disease Control and Prevention	50%	\$845,487	9/3/2019	9/2/2022
William Eggleston	Student Investigator Support for Brian Kam: Assessing Healthcare Professionals Knowledge and Perceptions of Buprenorphine	American College of Clinical Pharmacy	100%	\$5,000	9/15/2019	9/14/2020
Yetrib Hathout	Identification and Validation of Serum Protein Biomarkers in Children with Juvenile Dermatomyositis	Ann & Robert Lurie Children's Hospital of Chicago	50%	\$267,993	7/1/2019	6/30/2024
Yetrib Hathout	R21: Teaching an old drug new tricks: Cell-specific delivery of dexamethasone for the treatment of arthritis	National Institutes of Health	33%	\$137,963	9/1/2019	8/31/2021
Yetrib Hathout	Pilot trial of vamorolone for the treatment of Becker muscular dystrophy	University of Pittsburgh	50%	\$33,097	12/1/2019	11/30/2022
			Total # Credited	25.45		
			Total \$ Credited	\$8,288,101		

020 Pharmacy Practice

Wesley Kufel	A quasi-experimental study to evaluate the impact of empiric disease state-based antibiotic order set implementation for common infectious disease states	Merck and Company	100%	\$105,703	7/1/2019	6/30/2020
Wesley Kufel	R01: A Social Marketing and Participatory Modeling Approach for Optimizing Use of Antibiotics for Acute Respiratory Tract Infections	Agency for Healthcare Research and Quality	20%	\$435,643	4/1/2020	3/31/2025

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Total # Credited **1.20**
Total \$ Credited **\$541,346**

020 Philosophy

Maxim Pensky	Women's NGOs and Mass Atrocity Prevention	Harry Frank Guggenheim Foundation	100%	\$41,706	1/1/2019	12/31/2019
Nicole Hassoun	More for Everyone: A New Tool for Health Resource Allocation	National Science Foundation	100%	\$1,252,726	7/1/2019	6/30/2022
Nicole Hassoun	RWJ Global Health Impacts	Robert Wood Johnson Foundation	100%	\$299,999	1/1/2019	12/31/2021
Nicole Hassoun	The Badness of Death and Value of Life	National Endowment for the Humanities	100%	\$250,001	10/1/2019	9/30/2022

Total # Credited **4.00**
Total \$ Credited **\$1,844,432**

020 Physics, Applied Physics & Astronomy

Bonggu Shim	Enabling Quantum Leap: Q-AMASE-i: Discovery and Understanding of Spin Behaviors in 2D-Quantum Materials towards Quantum Computing	National Science Foundation	20%	\$4,421,820	5/1/2019	4/30/2025
Bonggu Shim	Photonic Millimeter-Wave Antenna Using a Glass Interposer	MOSAIC Microsystems	100%	\$12,500	8/1/2019	7/31/2020
Eric Cotts	The Reliability of SnAgCu/SnBiAg Mixed Assemblies - Current Stressing	Universal Instruments Corporation	100%	\$22,500	9/1/2018	8/31/2019
Eric Cotts	Accelerated Thermal Testing (ATC) Reliability of SAC/SnBiAg Mixed Assembly Solder Joints - The Effect of Current Stressing	Universal Instruments Corporation	100%	\$22,500	1/21/2019	1/20/2020
Eric Cotts	The Reliability of Mixed Assemblies - SAC/SnBi	Universal Instruments Corporation	100%	\$22,000	6/11/2019	6/10/2020
Louis Piper	MRI: Acquisition of a Hard X-Ray PhotoElectron Spectroscopy (HAXPES) for the Institute for Materials Research (IMR) at Binghamton University (BU)	National Science Foundation	60%	\$1,056,000	7/1/2019	6/30/2024

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Louis Piper	Scaling the Sensitivity Gap to Probe Interfaces of High Voltage Cathodes	Research Corporation for Science Advancement	100%	\$55,000	2/1/2019	1/31/2020
Manuel Smeu	Computational Design and Understanding of Ionic Liquids for Deep Desulfurization	American Chemical Society	100%	\$110,001	9/1/2019	8/31/2021
Manuel Smeu	Superhydrophobic Perovskite Quantum Dots For Improved Reliability Of Photovoltaic Materials	US Department of Energy	50%	\$100,009	1/1/2019	6/30/2020
Manuel Smeu	DNA Sequencing with Resonant Tunneling (DSeRT)	National Institutes of Health	100%	\$390,140	4/1/2020	3/31/2022
Manuel Smeu	Computational Modeling of Molecular Spintronic and Electronic Devices	Research Corporation for Science Advancement	100%	\$99,999	5/1/2019	4/30/2022
Manuel Smeu	Collaborative Research: Design and Synthesis of Ferrite Nanoparticle-based Electrodes for Environmentally Benign and High-performance Sodium Ion Batteries	National Science Foundation	100%	\$163,978	9/1/2019	8/31/2022
Manuel Smeu	CAREER: Ab Initio Modeling of Electrode-Electrolyte Interfaces in Multivalent Ion Batteries	National Science Foundation	100%	\$431,728	1/1/2019	12/31/2023
Michael Lawler	Quantum Spin Liquids for Guiding Combinatorial Optimization to Quantum Advantage	Defense Advanced Research Projects Agency (DARPA)	50%	\$612,530	11/1/2019	10/31/2023
Michael Lawler	Collaborative Research: Machine Learning methods for multi-disciplinary multi-scales problems	National Science Foundation	100%	\$390,169	1/1/2020	12/31/2021
Michael Lawler	Collaborative Research: Integrating Physics and Generative Machine Learning Models for Inverse Materials Design	National Science Foundation	100%	\$338,320	9/1/2019	8/31/2021
Wei-Cheng Lee	Quantum Spin Liquids for Guiding Combinatorial Optimization to Quantum Advantage	Defense Advanced Research Projects Agency (DARPA)	25%	\$306,265	11/1/2019	10/31/2023
Wei-Cheng Lee	Collaborative Research: HDR: I-DIRSE-IL: Accelerating Sensing and Computational Science with Physics-Guided Machine Learning	National Science Foundation	100%	\$232,014	9/1/2019	8/31/2021

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			Total # Credited	15.05		
			Total \$ Credited	\$8,787,472		
020 Psychology						
Anushree Karkhanis	Mechanisms of rostrocaudal differences in accumbal kappa opioid receptor effects on ethanol drinking	National Institute for Alcohol Abuse & Alcoholism	100%	\$1,973,955	4/1/2020	3/31/2025
Anushree Karkhanis	Treating Cocaine Use Disorder by Targeting the Kappa Opioid Receptors and D2 Autoreceptors in a Model of Addiction Vulnerability	Alkermes Incorporated	100%	\$100,000	1/1/2019	12/31/2020
Anushree Karkhanis	Impact of early life stress on accumbal kappa opioid signaling and ethanol intake	National Institute for Alcohol Abuse & Alcoholism	100%	\$400,879	11/1/2018	5/31/2021
Brandon Gibb	Attentional Biases for Affective Cues in Infants of Depressed Mothers	National Institute of Mental Health	100%	\$413,856	4/1/2019	3/31/2021
Brandon Gibb	Attentional Biases for Affective Cues in Infants of Depressed Mothers	National Institute of Mental Health	90%	\$372,470	7/1/2019	6/30/2021
Brandon Gibb	Neural Activity and Emotion Processing (Google)	Google Incorporated	10%	\$30,627	10/1/2018	9/30/2019
Brandon Gibb	CRCNS Research Proposal: Collaborative Research: Global integration of brain functional networks	National Science Foundation	15%	\$119,510	9/1/2019	8/31/2022
Christina Balderrama-Durbi	Clinical Placement Agreement - Ithaca Psychological Testing	Ithaca Psychological Testing	100%	\$17,400	8/22/2018	8/21/2019
Christopher Bishop	Increasing nigral tyrosine hydroxylase expression as a mechanism of exercise-mediated recovery: evaluation in toxin and rat Parkinson's disease genetic models	University of North Texas	100%	\$378,797	4/1/2019	3/31/2022
Christopher Bishop	Targeting raphe-striatal neuroplasticity in L-DOPA-induced dyskinesia	National Institutes of Health	100%	\$5,316,098	7/1/2019	6/30/2024
Christopher Bishop	PFF-Seeded Synucleinopathy: Impact on Striatal Dopamine Release, Proinflammatory Cytokines and Contralateral Excitotoxicity	Michigan State University	100%	\$146,029	2/1/2019	1/31/2021

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Christopher Bishop	Defining a central role for tyrosine hydroxylase in the vulnerability to aging-related bradykinesia	University of North Texas	100%	\$565,892	7/1/2019	6/30/2024
David Werner	Impact of Prenatal Ethanol on BLA Synaptic Plasticity	National Institute for Alcohol Abuse & Alcoholism	5%	\$21,531	3/1/2019	2/28/2021
Elena Varlinskaia	Impact of Prenatal Ethanol on BLA Synaptic Plasticity	National Institute for Alcohol Abuse & Alcoholism	5%	\$21,531	3/1/2019	2/28/2021
Erin Jant	A Head Start in STEM Learning: The Role of Professional Development and Teacher-Family Engagement	Spencer Foundation	100%	\$395,514	7/1/2020	6/30/2023
Erin Jant	Early Start with Science: A Research-Practice Partnership to Promote Effective Teacher Professional Development	Sciencenter	100%	\$255,591	10/1/2019	9/30/2022
Erin Jant	Collaborative Research: Early STEM Connections: How a Museum-Head Start Partnership Bridges Family Engagement, Learning, and Children's School Readiness	National Science Foundation	100%	\$632,158	9/1/2019	8/31/2022
James Jentsch	Preventing the Opioid Epidemic - Subaward	Stanford University	100%	\$198,906	9/1/2019	8/31/2022
Jennifer Gillis Mattson	Elizabeth Munsterberg Koppitz Fellowship:Hannah Morton: Identification of Bullying Victimization Experienced by Children with and without ASD	American Psychological Foundation	50%	\$12,500	8/1/2019	7/31/2020
Jennifer Gillis Mattson	BRCASD 2019-20	NYS Education Department	100%	\$50,000	7/1/2019	6/30/2020
Kenneth Kurtz	New Frontiers in Understanding Human Concept Learning	National Science Foundation	70%	\$442,054	1/1/2019	12/31/2021
Kenneth Kurtz	NRT: Complex Systems Training for Empowered Multidisciplinary Emergence Research and Graduate Education (CST-EMERGE)	National Science Foundation	10%	\$290,824	9/1/2019	8/31/2024
Lisa Savage	SUNY Upstate Bridges to the Baccalaureate Program	National Institute of General Medical Sciences	50%	\$801,660	9/1/2019	8/31/2024

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Lisa Savage	Adolescent alcohol silencing of basal forebrain cholinergic neuron phenotype	University of North Carolina at Chapel Hill	100%	\$307,183	4/1/2022	3/31/2025
Marvin Diaz	Adolescent alcohol and amygdala kappa system	Brain and Behavior Research Foundation	100%	\$70,000	1/15/2020	1/14/2022
Marvin Diaz	Fellowship Support for Siara Rouzer: Prenatal Alcohol Exposure, CRF and Adolescent Anxiety	National Institute for Alcohol Abuse & Alcoholism	100%	\$72,432	9/1/2019	8/31/2021
Marvin Diaz	Impact of Prenatal Ethanol on BLA Synaptic Plasticity	National Institute for Alcohol Abuse & Alcoholism	90%	\$387,549	3/1/2019	2/28/2021
Marvin Diaz	Moderate Prenatal Alcohol Exposure on Gestational Day 12 Sex-Dependently Impairs Social Behavior in Adult Offspring: The Role of the Basolateral Amygdala-to-Prelimbic Prefrontal Cortex Projection	Research Society on Alcoholism	100%	\$5,000	7/1/2019	6/30/2020
Matthew Johnson	Fellowship Support for Erin Alexander: Development of a Brief, Valid Measure of Intimate Partner Violence Using Item Response Theory	National Institute of Justice	100%	\$150,000	9/1/2020	8/31/2023
Nicholas Gaspelin	The Impact of Selection History on Visual Search: Evidence from Eye-tracking and ERPs	National Eye Institute	100%	\$817,410	8/1/2019	7/31/2022
Patricia Di Lorenzo	SUNY Upstate Bridges to the Baccalaureate Program	National Institute of General Medical Sciences	50%	\$801,660	9/1/2019	8/31/2024
Patricia Di Lorenzo	Vagal Influence on Brainstem Plasticity and Neural Coding of Taste	University of Georgia	100%	\$1,280,968	7/1/2019	6/30/2024
Peter Gerhardstein	A New Paradigm in Objective Biomarker Discovery for Diagnosis and Prediction of Chronic Low Back Pain	National Institutes of Health	15%	\$493,113	9/1/2019	8/31/2024
Peter Gerhardstein	Attentional Biases for Affective Cues in Infants of Depressed Mothers	National Institute of Mental Health	10%	\$41,386	7/1/2019	6/30/2021
Peter Gerhardstein	Investigating the Relationship Between Autistic Traits and Visual Perception Across Development	National Science Foundation	100%	\$605,920	1/1/2019	12/31/2022

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Raymond Romanczyk	Assessment of Bullying Perpetration and Victimization for Parents of Children with and without Autism Spectrum Disorder (ASD) : Hannah Morton (student)	Organization for Autism Research	100%	\$2,000	7/1/2019	6/30/2020
Raymond Romanczyk	Elizabeth Munsterberg Koppitz Fellowship:Hannah Morton: Identification of Bullying Victimization Experienced by Children with and without ASD	American Psychological Foundation	50%	\$12,500	8/1/2019	7/31/2020
Terrence Deak	F31: Andrew Vore: Long Lasting Effects of Adolescent Alcohol on BBB Function	National Institute for Alcohol Abuse & Alcoholism	100%	\$73,032	4/1/2019	3/31/2021
Terrence Deak	F31: Andrew Vore: Adolescent Alcohol Use and Adult Blood-Brain Barrier Dysfunction	National Institutes of Health	100%	\$81,048	4/1/2019	3/31/2021
Vladimir Miskovic	Neural Activity and Emotion Processing (Google)	Google Incorporated	90%	\$275,645	10/1/2018	9/30/2019
				Total # Credited	31.10	
				Total \$ Credited	\$18,434,628	

020 Public Archaeology Facility

Chris Hohman	Phase 1A Archaeological Assessment, City Harbor Development Project, City of Ithaca, Tompkins County, NY	T G Miller PC	100%	\$2,178	5/31/2019	5/30/2020
Chris Hohman	Lodestar Energy Walton Solar Project, Phase 1 Cultural Resource Survey, Town of Walton, Delaware County, NY	Lodestar Energy	100%	\$2,939	6/6/2019	6/5/2020
Laurie Miroff	The Timelessness of Science: Multidisciplinary STEM Learning Through Archaeology Advanced Informal Science Learning Program, Pilots and Feasibility Studies	National Science Foundation	25%	\$74,771	8/1/2019	7/31/2021
Laurie Miroff	Phase 2 Site Examination, NYSEG Circuit 879 Project - Pike's Cantonment Site, Northern Locus	LaBella Associates	100%	\$13,953	6/14/2019	6/13/2020

<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>
Nina Versaggi	Phase 1 Archaeological Survey, Lyons Runne 2 Development Project, Town of Cicero, Onondaga County, NY	Alex Lyon and Son	100%	\$19,838	4/20/2019	4/19/2020
Nina Versaggi	Cultural Resource Screening (FCC 620), Sanford Lower Tower Project, Marsh Pond Road, Broome County, NY	C and S Engineering	100%	\$1,825	3/8/2019	3/7/2020
Nina Versaggi	NYSEG Circuit 879 Project, Phase 1A Cultural Resource Assessment, Clinton County, NY	LaBella Associates	100%	\$2,210	3/11/2019	3/10/2020
Nina Versaggi	East Fishkill Solar Project, Phase 1A &1B cultural resource survey, Town of East Fishkill, Dutchess County, NY	Maser Consulting P.A.	100%	\$5,620	3/22/2019	3/21/2020
Nina Versaggi	Key Capture Energy NY3 Battery Storage Project, Phase 1 Cultural Resource Survey, Town of Ramapo, Rockland County, NY	Maser Consulting P.A.	100%	\$2,981	3/27/2019	3/26/2020
Nina Versaggi	Historic Resource Survey Form, 423-433 Reuter Boulevard Project, Town of Towanda, Bradford County, PA	Citizens and Northern Bank	100%	\$4,425	3/21/2019	3/20/2020
Nina Versaggi	Oneida Castle Battlefield - American Battlefield Preservation Program	National Park Service	100%	\$76,758	9/15/2019	9/14/2021
Nina Versaggi	Phase 1 Cultural Resource Survey, SV 228 to YM-52(S) Dehy Pipeline Project, Homer Township, Potter County, PA	Hanover Engineering Associates	100%	\$1,892	4/15/2019	4/14/2020
Nina Versaggi	Phase 1 Archaeological Survey (Subsurface Survey-960-1200 STPs), Cleveland Heights Subdivision Project, Town of Onondaga, Onondaga County, NY	LOK Development LLC	100%	\$29,630	4/10/2019	4/9/2020
Nina Versaggi	Archaeological Overview and Assessment of the St. Gabriel's and WaggonSeller Farm Parcels, Valley Forge National Historical Park, King of Prussia, PA	National Park Service	25%	\$14,000	9/1/2019	8/31/2020
Nina Versaggi	Cultural Resource Screening (FCC 620), Sanford Laurel Lake Road Tower, Broome County NY	C and S Engineering	100%	\$1,857	4/18/2019	4/17/2020
Nina Versaggi	Urbanski Solar Project	Maser Consulting P.A.	100%	\$16,680	10/9/2018	10/8/2019

<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>
Nina Versaggi	Battlefield Resource Survey of the Saratoga (Siege) Battlefield, ABPP GrantP18AP00520, Towns of Easton, Saratoga, and Northumberland, NY	Hudson Crossing Park Inc.	100%	\$40,782	5/14/2019	5/13/2020
Nina Versaggi	High Bridge Wind Project - Phase 1B	Environmental Design & Research	100%	\$52,730	4/22/2019	4/21/2020
Nina Versaggi	Phase 1B Archaeological Survey, NYSEG Circuit 879 Project, Clinton County, NY	LaBella Associates	100%	\$55,281	5/9/2019	5/8/2020
Nina Versaggi	Phase 2 Site Examinations & Phase 1B Addendum Survey, Sidney Water System Improvement Project (16PR03281), Sidney, Delaware County, NY	Lamont Engineers	100%	\$69,219	5/8/2019	5/7/2020
Nina Versaggi	SUNY Polytechnic Institute Project, Phase 1A Cultural Resource Assessment, Town of Marcy, Oneida County, NY	C and S Engineering	100%	\$2,274	5/21/2019	5/20/2020
Nina Versaggi	Phase 1 Archaeological Survey, Tabitha Creek Section G-2 Development Project, Town of Onondaga, Onondaga County, NY	Calocerinos Engineering PLLC	100%	\$11,000	4/17/2019	4/16/2020
Nina Versaggi	Phase 1 Cultural Resource Survey, Sheldon Hill Bridgeline Project, Auburn & Springville Townships, Susquehanna County, PA	Borton-Lawson Engineering Incorporated	100%	\$4,603	8/27/2018	8/26/2019
Nina Versaggi	The Timelessness of Science: Multidisciplinary STEM Learning Through Archaeology Advanced Informal Science Learning Program, Pilots and Feasibility Studies	National Science Foundation	25%	\$74,771	8/1/2019	7/31/2021
Nina Versaggi	Phase 1B Cultural Resource Survey (Gas Transmission Alternate Option #2, Approx. 43 STPs), Glass Greenhouse Facility Project	C and S Engineering	100%	\$3,416	11/1/2018	10/31/2019
Nina Versaggi	Cultural Resource Screening (FCC 620), Nabinger Hill Road Project, Broome County	C and S Engineering	100%	\$1,845	11/8/2018	11/7/2019
Nina Versaggi	Phase 2&3 Archaeological Investigations, Glass Greenhouse Facility Project, Village of Wampsville, City of Oneida, Madison County, NY	C and S Engineering	100%	\$170,001	7/3/2018	9/2/2019

<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>
Nina Versaggi	Phase 1 Archaeological Survey, Waverly Glen Park Improvement Projects OPRHP CFA, Village of Waverly, Tioga County, NY	Village of Waverly	100%	\$2,900	7/18/2018	7/17/2019
Nina Versaggi	Phase 1 Archaeological Survey, Renovus Tioga Solar Farms Project, Town of Tioga, Tioga County, NY	Renovus Solar	100%	\$2,736	1/8/2019	1/7/2020
Nina Versaggi	Phase 1 Cultural Resource Survey, Harney Road Bridge Replacement Project, Town of Plattsburgh/Town of Schuyler Falls, Clinton County, NY	Stantec Consulting Services Inc	100%	\$4,455	8/9/2018	8/8/2019
Nina Versaggi	Phase 3 Data Recovery of the Denton Reed II Site, Earl Road Gravel Mine Project, Town of Unadilla, Otsego County, NY	Clark Companies	100%	\$49,643	2/12/2019	2/11/2020
Nina Versaggi	Glass Greenhouse Project, Construction Monitoring, Cowaselon Precontact Site, Wampsville, Madison County, NY	C and S Engineering	100%	\$17,500	9/6/2018	9/5/2019
Nina Versaggi	Longyear Museum Faunal Analysis Project, Colgate University	Colgate University	100%	\$7,999	8/29/2018	12/28/2018
Nina Versaggi	Phase 2/3 Archaeological Investigations, Otsiningo Stage Site, Otsiningo Park Stage Electrical Line Project, Broome County, NY	Broome County Department of Public Works	100%	\$5,423	9/19/2018	9/18/2019
Nina Versaggi	Cultural Resource Screening (FCC 620), Short Track Road Project, Livingston County, NY	C and S Engineering	100%	\$2,000	9/19/2018	9/18/2019
Nina Versaggi	Phase 1 Proposal, Apalachin Elementary School Parking Project, Tioga County, NY	Owego Apalachin Central School District	100%	\$1,730	10/1/2018	9/30/2019
Nina Versaggi	Varano Solar Project	Maser Consulting P.A.	100%	\$16,680	10/11/2018	10/10/2019
Nina Versaggi	Phase 1B Archaeological Survey (Electrical Transmission Line), Glass Greenhouse Facility Project, Madison County, NY	C and S Engineering	100%	\$9,351	10/18/2018	10/17/2019
Nina Versaggi	Phase 3 Excavations for Task #1 (5x5M area), Glass Greenhouse Facility Project, Madison County, NY	C and S Engineering	100%	\$21,000	1/17/2019	1/16/2020

<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>
Nina Versaggi	Phase 1B Cultural Resources Survey, WNYE Gas Pipeline Project, Orleans and Genesee Counties, NY	IEDC	100%	\$11,198	8/3/2018	8/2/2019
			Total # Credited	37.75		
			Total \$ Credited	\$910,095		

020 Research VP

Bahgat Sammakia	Future Facilities 2019-2020 ES2 I/UCRC Membership	Future Facilities Incorporated	50%	\$37,500	8/1/2019	7/31/2020
Bahgat Sammakia	Advancing Health Science Technologies in the Southern Tier	Empire State Development Corp	100%	\$4,745,000	12/1/2018	11/30/2022
Bahgat Sammakia	Advances in Integration and Packaging of Electronic Systems	Empire State Development Corp	100%	\$100,000	6/1/2019	5/31/2022
James Turner	Improved ECG Monitor with Capacitive Electrodes	Flex Tech Alliance	25%	\$62,500	1/1/2019	6/30/2020
			Total # Credited	2.75		
			Total \$ Credited	\$4,945,000		

020 Romance Languages

Bryan Kirschen	Documenting Judeo-Spanish (LAD) Through Solitreo Text	National Science Foundation	100%	\$270,000	6/1/2019	5/31/2022
Bryan Kirschen	CAREER: Ladino Contact and Variation in the United States	National Science Foundation	100%	\$425,012	1/1/2019	12/31/2023
			Total # Credited	2.00		
			Total \$ Credited	\$695,012		

020 School of Management

Jinfeng Jiao	Effects of EV Diffusion on the Power Grid: Block-Level Overload Risk in NYC	NYS Energy Research and Development Authority	25%	\$100,000	3/1/2019	2/28/2021
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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>
Manoj Agarwal	HDR DSC: Collaborative Research: Post-industrial Social & Economic Empowerment through Data Science (SEEDS) in New York's Southern Tier	National Science Foundation	10%	\$94,346	9/1/2019	8/31/2022
Shelley Dionne	NRT: Complex Systems Training for Empowered Multidisciplinary Emergence Research and Graduate Education (CST-EMERGE)	National Science Foundation	10%	\$290,824	9/1/2019	8/31/2024
Shelley Dionne	IGE: Enhancing Students' "Deep Diversity" of Knowledge and Skills via Exploration of the Orthogonal Subject-Skill Curricular Matrix	National Science Foundation	25%	\$124,999	4/1/2019	3/31/2022
			Total # Credited	0.70		
			Total \$ Credited	\$610,169		

020 School of Nursing Academic

Ann Fronczek	DSON ANEW #2 Advanced Nursing Education Workforce Program	Health Resources and Services Admin	50%	\$1,400,000	7/1/2019	6/30/2023
Melissa Sutherland	Multi-level Influences of Violence Screening In College Health Centers	Agency for Healthcare Research and Quality	60%	\$651,008	9/1/2019	8/31/2022
Nicole Rouhana	DSON ANEW #2 Advanced Nursing Education Workforce Program	Health Resources and Services Admin	50%	\$1,400,000	7/1/2019	6/30/2023
Yvonne Johnston	Consultant Services for Rural Health Network	Rural Health Network of South Central New York	25%	\$18,750	1/1/2019	12/31/2020
			Total # Credited	1.85		
			Total \$ Credited	\$3,469,758		

020 Sociology

Benita Roth	Fighting the Opioid Epidemic in Upstate New York	Social Science Research Council	100%	\$10,000	5/1/2019	4/30/2020
			Total # Credited	1.00		
			Total \$ Credited	\$10,000		

<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>
020 Systems Science and Indust Eng (SSIE)						
Bing Si	Multi-level Influences of Violence Screening In College Health Centers	Agency for Healthcare Research and Quality	40%	\$434,006	9/1/2019	8/31/2022
Changqing Cheng	HDR DSC: Collaborative Research: Post-industrial Social & Economic Empowerment through Data Science (SEEDS) in New York's Southern Tier	National Science Foundation	10%	\$94,346	9/1/2019	8/31/2022
Christopher Greene	Process Research and Development for Complex Surface Mount Device Assemblies	Smart Modular Technologies Inc	50%	\$33,185	8/27/2018	8/26/2019
Christopher Greene	Advanced Process Research and Development for Complex Surface Mount Device Assemblies	Smart Modular Technologies Inc	50%	\$37,425	5/20/2019	5/19/2020
Christopher Greene	Process Analysis and Improvement for the Assembly of Complex Data Server Systems	Smart Modular Technologies Inc	50%	\$37,425	5/20/2019	5/19/2020
Christopher Greene	Research-Driven Continual Process Improvement for Complex Surface Mount Device Assemblies	Smart Modular Technologies Inc	50%	\$37,425	6/24/2019	6/23/2020
Daehan Won	Performance Improvement of Clinical Practices and Operations Research 2019-20	LiveOnNY	25%	\$15,638	5/20/2019	5/19/2020
Daehan Won	SWEAT: Smart Wearable and Economic Alcohol-monitoring Technology	National Institutes of Health	35%	\$141,537	8/1/2019	7/31/2021
Daehan Won	Sweat Epifluidics Sensing Systems for Stress Monitoring	US Air Force Office of Scientific Research	40%	\$180,000	1/1/2020	12/31/2022
Daehan Won	Demand Signal Analysis and Dispatching Process Automation in Semiconductor Manufacturing	Analog Devices General Trias Incorporated	33%	\$34,627	2/11/2019	2/10/2020
Daehan Won	On-skin Sweat Sensing System for Quality of Life Monitoring	National Science Foundation	40%	\$203,740	8/1/2019	7/31/2022
Daehan Won	Development of Pick and Placement Machine On/Offline Optimization and Diagnosis Modules in the Printed Circuit Board Assembly Process	Koh Young Technology Incorporated	25%	\$90,000	1/31/2019	1/30/2022
Daryl Santos	Quality Engineering Research and Development for Complex Surface Mount Device Assemblies	Smart Modular Technologies Inc	50%	\$34,035	8/19/2019	8/18/2020

<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>
Daryl Santos	Research in Radio Frequency and Power Packaging Technologies	General Electric Company Res and Dev Center	50%	\$30,280	1/7/2019	1/6/2020
Daryl Santos	System in Package (SiP) Assembly Engineering Research and Development	Analog Devices	50%	\$14,858	8/13/2018	8/12/2019
Daryl Santos	Failure Analysis and Reliability Research for DRAM and Flash Memory Products	Smart Modular Technologies Inc	50%	\$34,130	1/2/2019	1/1/2020
Daryl Santos	System in Package (SiP) Assembly Engineering Research and Development	Analog Devices, Incorporated	50%	\$19,286	1/21/2019	1/20/2020
Daryl Santos	Process Improvement for the Assembly of Complex Data Server Systems	Smart Modular Technologies Inc	50%	\$33,040	5/20/2019	5/19/2020
Daryl Santos	Incoming Inspection and Supplier Quality Studies for the Assembly of Complex Data Server Systems	Smart Modular Technologies Inc	50%	\$33,040	5/20/2019	5/19/2020
Fuda Ning	Quantifying the Effects of As-Built Surface Finish on the Mechanical Performance of IN625 SLM Canonical Design Features	Southwest Research Institute	75%	\$224,999	1/1/2019	12/31/2020
Hiroki Sayama	IGE: Enhancing Students' "Deep Diversity" of Knowledge and Skills via Exploration of the Orthogonal Subject-Skill Curricular Matrix	National Science Foundation	25%	\$124,999	4/1/2019	3/31/2022
Hiroki Sayama	Workshop on "Managing Complexity"	Griffiss Institute	50%	\$20,000	9/17/2018	2/16/2019
Hiroki Sayama	NRT: Complex Systems Training for Empowered Multidisciplinary Emergence Research and Graduate Education (CST-EMERGE)	National Science Foundation	15%	\$436,236	9/1/2019	8/31/2024
Hiroki Sayama	R03: Improving Healthcare Quality in Rural and Socioeconomically Disadvantaged Communities	Agency for Healthcare Research and Quality	20%	\$19,766	5/1/2020	4/30/2022
Hiroki Sayama	Adaptive Network Modeling of Real-World Temporal Network Dynamics	National Science Foundation	34%	\$172,886	6/1/2019	5/31/2022
Huimin Zhou	A Low-cost Energy Storage System (LESS) to Enable High Solar Energy Penetration into Distribution Grids	US Department of Energy	14%	\$391,502	1/1/2019	12/31/2021
Jia Deng	3D Printing Orthodontic Models	Hatala Orthodontics	100%	\$5,000	4/22/2019	4/21/2020

<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>
Krishnaswa Srihari	Developing Large-scale Pharmacy Solutions Using Discrete Simulation, Data Analytics & Optimization, and Systems Engineering Principles	Innovation Associates	50%	\$173,790	5/20/2019	5/19/2020
Krishnaswa Srihari	Quality Engineering Research and Development for Complex Surface Mount Device Assemblies	Smart Modular Technologies Inc	50%	\$34,035	8/19/2019	8/18/2020
Krishnaswa Srihari	Research-Driven Continual Process Improvement for Complex Surface Mount Device Assemblies	Smart Modular Technologies Inc	50%	\$37,425	6/24/2019	6/23/2020
Krishnaswa Srihari	Process Analysis and Improvement for the Assembly of Complex Data Server Systems	Smart Modular Technologies Inc	50%	\$37,425	5/20/2019	5/19/2020
Krishnaswa Srihari	Health Care Performance, Quality, and Safety Improvement at MaineHealth	MaineHealth	50%	\$33,569	5/27/2019	5/26/2020
Krishnaswa Srihari	Advanced Process Research and Development for Complex Surface Mount Device Assemblies	Smart Modular Technologies Inc	50%	\$37,425	5/20/2019	5/19/2020
Krishnaswa Srihari	Performance Improvement of Clinical Practices and Operations Research 2019-20	LiveOnNY	25%	\$15,638	5/20/2019	5/19/2020
Mark Poliks	Small Unmanned Aircraft Systems (SUAS) using Flexible Hybrid Electronics for Expanded Multi-Mission Operation	Flex Tech Alliance	100%	\$850,000	7/1/2019	12/31/2020
Mark Poliks	Improved ECG Monitor with Capacitive Electrodes	Flex Tech Alliance	25%	\$62,500	1/1/2019	6/30/2020
Mark Poliks	STTR Phase I: Roll-to-Roll Nanomaterial Manufacturing	Aquaneers Incorporated	100%	\$75,001	1/1/2020	12/31/2020
Mark Poliks	Acquisition of High-Resolution 3D X-ray Tomography Microscope for Non-Destructive Evaluation of Critical Electronic Components and Material Interfaces	US Air Force Office of Scientific Research	100%	\$1,130,737	2/1/2020	1/31/2021
Mark Poliks	Center for Flexible Hybrid Medical Device Manufacturing	Empire State Development Corp	100%	\$4,184,800	7/1/2019	6/30/2024
Mark Poliks	DARPA Measuring Biological Aptitude White Paper	General Electric Global Research	100%	\$850,000	9/1/2019	8/31/2023

<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>
Mark Poliks	Critical Materials, Surfaces and Interfaces for Advanced Packaging	Analog Devices, Incorporated	100%	\$68,001	4/1/2019	3/31/2020
Mark Poliks	Wearable Interstitial Fluid Biomarker Monitoring Device	Flex Tech Alliance	100%	\$1,000,000	7/1/2019	12/31/2020
Mark Poliks	FHE Enabled Cradle-to-Grave Composite Structure SHM	Flex Tech Alliance	100%	\$800,000	7/1/2019	12/31/2020
Mark Poliks	MRI: Acquisition of a Hard X-Ray PhotoElectron Spectroscopy (HAXPES) for the Institute for Materials Research (IMR) at Binghamton University (BU)	National Science Foundation	10%	\$176,000	7/1/2019	6/30/2024
Mark Poliks	Room-Temperature Sinterable Conductive Copper-Nanoalloys for Scalable Manufacturing of Paper-Based Sensors	National Science Foundation	34%	\$167,196	1/1/2019	12/31/2021
Mark Poliks	STTR Phase 1: Roll-to-Roll Nanomaterial Manufacturing	Aquaneers Incorporated	100%	\$74,999	11/1/2018	6/30/2019
Mark Poliks	STTR (NASA) Phase 1: Roll-to-Roll Nanomaterial Manufacturing	Aquaneers Incorporated	100%	\$41,666	8/1/2019	8/31/2020
Mohammad Khasawneh	Healthcare Design Research and Development for Operational Efficiency and Value Creation (Amd 1)	EwingCole	50%	\$34,590	4/15/2019	4/14/2020
Mohammad Khasawneh	Organizational Excellence Support at Christiana Care	Christiana Care Health Services Incorporated	50%	\$31,503	2/11/2019	2/10/2020
Mohammad Khasawneh	Population Health and Operations Management for Sustainable and Comprehensive Quality Care	Finger Lakes Community Health (FLCH)	50%	\$31,928	3/18/2019	3/17/2020
Mohammad Khasawneh	Health Care Performance, Quality, and Safety Improvement at MaineHealth	MaineHealth	50%	\$33,569	5/27/2019	5/26/2020
Mohammad Khasawneh	Redesign of Care Processes and Workflows to Facilitate the Implementation of a Customer Relationship Management System	Cooper University Health Care	50%	\$31,950	1/7/2019	1/6/2020
Mohammad Khasawneh	Business Process Engineering Support for Network Management Systems (CMO)	Montefiore Hospital and Medical Center	50%	\$32,895	8/27/2018	8/26/2019
Mohammad Khasawneh	Business Intelligence & Performance Improvement at UHS	United Health Services Hospitals Incorporated	50%	\$178,061	8/27/2018	8/26/2019

<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>
Mohammad Khasawneh	Process Analysis and Performance Excellence for Integrated Delivery Care Systems	Montefiore Hospital and Medical Center	50%	\$34,690	8/15/2018	8/14/2019
Mohammad Khasawneh	Improving the Efficiency and Effectiveness of Healthcare Delivery	Montefiore Hospital and Medical Center	50%	\$33,254	1/8/2019	1/7/2020
Mohammad Khasawneh	Performance Improvement of Clinical Practices and Operations Research 2019-20	LiveOnNY	25%	\$15,638	5/20/2019	5/19/2020
Mohammad Khasawneh	Improving Quality, Safety and Patient Flow and Outpatient Medication Management	Memorial Sloan Kettering Cancer Center	50%	\$67,642	8/27/2018	8/26/2019
Nagen Nagarur	Research in Supply Chain Management Practices in the Electronics Industry	Sanmina Corporation	50%	\$33,613	1/7/2019	1/6/2020
Nagen Nagarur	Quality Engineering Research at an Electronics Manufacturing Service Provider	SMTC Manufacturing Corporation	50%	\$33,166	1/7/2019	1/6/2020
Nagen Nagarur	Research in Electronics Manufacturing and Automation	Sanmina Corporation	50%	\$38,561	7/2/2018	7/1/2019
Nagen Nagarur	Medical/Diagnostic Devices and Enterprise Systems	Jabil Circuit Incorporated	50%	\$34,552	9/17/2018	9/16/2019
Nagen Nagarur	Automation and Process Improvement in a Contract Manufacturing Company	Sanmina Corporation	50%	\$33,701	2/4/2019	2/3/2020
Nasim Seyed ZadehSaboun	Personalizing Dietary and Lifestyle Factors Assessment for Mental Health Optimization	National Institute for Nursing Research	50%	\$209,035	7/1/2019	6/30/2021
Nasim Seyed ZadehSaboun	Investigating the Impact of the Good Samaritan Law Among Minority Populations in the State of Connecticut	Yale University	100%	\$49,102	1/1/2020	12/31/2021
Nasim Seyed ZadehSaboun	NRT: Complex Systems Training for Empowered Multidisciplinary Emergence Research and Graduate Education (CST-EMERGE)	National Science Foundation	10%	\$290,824	9/1/2019	8/31/2024
Nasim Seyed ZadehSaboun	CAREER: Advancing the Modeling of Social and Behavioral Variables in Decision Making Models	National Science Foundation	100%	\$500,002	1/1/2019	12/31/2023
Nasim Seyed ZadehSaboun	Modeling Risk of Lyme disease in built environments using ecological, demographic and behavioral risk factors	National Science Foundation	50%	\$1,249,841	5/31/2019	5/30/2024

<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>
Nasim Seyed ZadehSaboun	R01: A Social Marketing and Participatory Modeling Approach for Optimizing Use of Antibiotics for Acute Respiratory Tract Infections	Agency for Healthcare Research and Quality	45%	\$980,198	4/1/2020	3/31/2025
Pamela Sandoval	IGE: Enhancing Students' "Deep Diversity" of Knowledge and Skills via Exploration of the Orthogonal Subject-Skill Curricular Matrix	National Science Foundation	25%	\$124,999	4/1/2019	3/31/2022
Peter Borgesen	Research on Electronics Reliability Issues	Universal Instruments Corporation	100%	\$24,068	9/1/2018	8/31/2019
Peter Borgesen	Quantifying the Effects of As-Built Surface Finish on the Mechanical Performance of IN625 SLM Canonical Design Features	Southwest Research Institute	25%	\$75,000	1/1/2019	12/31/2020
Peter Borgesen	CHIRP:Alternative Fine Pitch Interconnect Technologies for SiPs	Semiconductor Research Corporation	100%	\$149,998	1/1/2019	12/31/2021
Peter Borgesen	Research on Electronics Reliability Issues	Universal Instruments Corporation	100%	\$23,350	1/1/2019	12/31/2019
Peter Borgesen	'Viscous' Deformation and Damage of Metals Under Varying Loads	National Science Foundation	100%	\$467,417	9/1/2019	8/31/2022
Peter Borgesen	Nanocopper Process and Reliability	Hitachi Ltd	100%	\$134,000	9/1/2019	4/30/2021
Sangwon Yoon	Modernizing Symphony Standard to VB.Net Platform and Applying Business Intelligence	Innovation Associates	50%	\$98,907	1/21/2019	1/20/2020
Sangwon Yoon	Developing Large-scale Pharmacy Solutions Using Discrete Simulation, Data Analytics & Optimization, and Systems Engineering Principles	Innovation Associates	50%	\$173,790	5/20/2019	5/19/2020
Sangwon Yoon	Performance Improvement of Clinical Practices and Operations Research 2019-20	LiveOnNY	25%	\$15,638	5/20/2019	5/19/2020
Sangwon Yoon	Support for the Plan of Every Part (PFEP) in Materials Handling and Logistics	Raymond Corporation	50%	\$49,791	5/20/2019	5/19/2020
Sangwon Yoon	Demand Signal Analysis and Dispatching Process Automation in Semiconductor Manufacturing	Analog Devices General Trias Incorporated	33%	\$34,627	2/11/2019	2/10/2020

<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>
Sangwon Yoon	SUNY Artificial Intelligence and Quantum Center	Empire State Development Corp	100%	\$4,268,175	7/1/2019	6/30/2024
Sangwon Yoon	Supporting New Logistic Network and Transportation System Implementation	Raymond Corporation	50%	\$29,969	8/6/2018	8/5/2019
Sangwon Yoon	Development of Pick and Placement Machine On/Offline Optimization and Diagnosis Modules in the Printed Circuit Board Assembly Process	Koh Young Technology Incorporated	25%	\$90,000	1/31/2019	1/30/2022
Sarah Lam	Business Intelligence and Analytics for Server Manufacturing	IBM Corporation	50%	\$33,456	1/1/2019	12/31/2019
Soongeol Kwon	LSTMN-Based Optimization Framework	National Science Foundation	100%	\$339,458	9/1/2019	8/31/2022
Soongeol Kwon	Energy-aware Autonomous Vehicle Operations for Material Handling: A Machine Learning Approach	Toyota Material Handling North America	50%	\$95,531	5/1/2019	4/30/2020
Soongeol Kwon	Energy-aware Automatic Forklift Operations for Material Handling	Materials Handling Industry	50%	\$37,637	8/21/2019	8/20/2020
Sunghoon Chung	Energy-aware Autonomous Vehicle Operations for Material Handling: A Machine Learning Approach	Toyota Material Handling North America	50%	\$95,531	5/1/2019	4/30/2020
Sunghoon Chung	Enabling Continuous Warehouse Operations via Electrified Aisles for Charging Forklifts	Materials Handling Industry	100%	\$37,586	8/21/2019	8/20/2020
Sunghoon Chung	Smart and Connected Warehouse: Safety-Aware Adaptive Autonomous Vehicle Operations for Material Handling	Materials Handling Industry	100%	\$83,389	9/1/2019	8/31/2020
Sunghoon Chung	Smart and Connected Warehouse: Safety-Aware Adaptive Autonomous Vehicle Operations for Material Handling	Toyota Material Handling North America	100%	\$224,017	5/1/2019	4/30/2020
Sunghoon Chung	CAREER: Adaptive Strategic Disaster Management of Highly Uncertain, Cascading Natural Events	National Science Foundation	100%	\$500,002	3/1/2019	2/29/2024
Sunghoon Chung	Energy-aware Automatic Forklift Operations for Material Handling	Materials Handling Industry	50%	\$37,637	8/21/2019	8/20/2020

<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>
Susan Shuxia Lu	GlobalChain: An Autonomous, Robust Global Material Handling Paradigm on a Hierarchical Enterprise Network Enabled by Blockchain	Toyota Material Handling North America	50%	\$107,445	6/1/2019	5/31/2020
Susan Shuxia Lu	Smart Breath-Sensor Array for Point-of-Care Screening of Lung Cancer	National Cancer Institute	30%	\$185,574	12/1/2019	11/30/2022
Yong Wang	CAREER: Transforming Manufacturing into Power Grid Resources for Environmental Sustainability Through Demand Response	National Science Foundation	100%	\$499,999	1/1/2019	12/31/2023
Yong Wang	Collaborative Research: Joint Energy Management Of Manufacturing Plant And On-Site Microgrid Using Neural-Network Based Reinforcement Learning	National Science Foundation	100%	\$203,277	8/1/2019	7/31/2022
Yong Wang	Effect of EV Diffusion on the Power Grid: Block-Level Overload Risk in NYC	NYS Energy Research and Development Authority	50%	\$200,000	3/1/2019	2/28/2021
				Total # Credited	56.68	
				Total \$ Credited	\$25,202,185	

020 Watson School Deans Office

Bahgat Sammakia	Microsoft 2019-2020 I/UCRC Membership	Microsoft Corporation	50%	\$25,001	8/1/2019	7/31/2020
Bahgat Sammakia	Futurewei Technologies I/UCRC Membership	Huawei Technologies Company Limited	50%	\$27,500	6/1/2018	5/31/2019
Bahgat Sammakia	Amendment 1 - Futurewei Technologies I/UCRC 2018-2019 Membership Agreement	Futurewei Technologies	50%	\$12,500	3/1/2019	12/31/2019
Bahgat Sammakia	Ashlawn Energy 2019-2020 I/UCRC (ES2) Membership Agreement	Ashlawn Energy, LLC	50%	\$12,500	5/1/2019	4/30/2020
John Bay	Workshop on "Managing Complexity"	Griffiss Institute	50%	\$20,000	9/17/2018	2/16/2019
Kanad Ghose	Futurewei Technologies I/UCRC Membership	Huawei Technologies Company Limited	50%	\$27,500	6/1/2018	5/31/2019
Kanad Ghose	Future Facilities 2018-2019 I/UCRC Membership	Future Facilities Incorporated	100%	\$25,000	8/1/2018	7/31/2019
Kanad Ghose	Amendment 1 - Futurewei Technologies I/UCRC 2018-2019 Membership Agreement	Futurewei Technologies	50%	\$12,500	3/1/2019	12/31/2019

<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>
Krishnaswa Srihari	Population Health and Operations Management for Sustainable and Comprehensive Quality Care	Finger Lakes Community Health (FLCH)	50%	\$31,928	3/18/2019	3/17/2020
Krishnaswa Srihari	Organizational Excellence Support at Christiana Care	Christiana Care Health Services Incorporated	50%	\$31,503	2/11/2019	2/10/2020
Krishnaswa Srihari	Incoming Inspection and Supplier Quality Studies for the Assembly of Complex Data Server Systems	Smart Modular Technologies Inc	50%	\$33,040	5/20/2019	5/19/2020
Krishnaswa Srihari	Redesign of Care Processes and Workflows to Facilitate the Implementation of a Customer Relationship Management System	Cooper University Health Care	50%	\$31,950	1/7/2019	1/6/2020
Krishnaswa Srihari	Failure Analysis and Reliability Research for DRAM and Flash Memory Products	Smart Modular Technologies Inc	50%	\$34,130	1/2/2019	1/1/2020
Krishnaswa Srihari	Warehouse Operations Management and Analytics Research and Development	Bennett Distribution Services Limited Liability Corporation	100%	\$67,024	1/21/2019	1/20/2020
Krishnaswa Srihari	Modernizing Symphony Standard to VB.Net Platform and Applying Business Intelligence	Innovation Associates	50%	\$98,907	1/21/2019	1/20/2020
Krishnaswa Srihari	Demand Signal Analysis and Dispatching Process Automation in Semiconductor Manufacturing	Analog Devices General Trias Incorporated	34%	\$35,677	2/11/2019	2/10/2020
Krishnaswa Srihari	Automation and Process Improvement in a Contract Manufacturing Company	Sanmina Corporation	50%	\$33,701	2/4/2019	2/3/2020
Krishnaswa Srihari	Medical/Diagnostic Devices and Enterprise Systems	Jabil Circuit Incorporated	50%	\$34,552	9/17/2018	9/16/2019
Krishnaswa Srihari	Process Improvement for the Assembly of Complex Data Server Systems	Smart Modular Technologies Inc	50%	\$33,040	5/20/2019	5/19/2020
Krishnaswa Srihari	Support for the Plan of Every Part (PFEP) in Materials Handling and Logistics	Raymond Corporation	50%	\$49,791	5/20/2019	5/19/2020
Krishnaswa Srihari	Healthcare Design Research and Development for Operational Efficiency and Value Creation (Amd 1)	EwingCole	50%	\$34,590	4/15/2019	4/14/2020
Krishnaswa Srihari	Improving the Efficiency and Effectiveness of Healthcare Delivery	Montefiore Hospital and Medical Center	50%	\$33,254	1/8/2019	1/7/2020

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Krishnaswa Srihari	Reliability Analysis and Research for DRAM and Flash Memory Products	Smart Modular Technologies Inc	100%	\$68,259	9/4/2018	9/3/2019
Krishnaswa Srihari	System in Package (SiP) Assembly Engineering Research and Development	Analog Devices, Incorporated	50%	\$19,286	1/21/2019	1/20/2020
Krishnaswa Srihari	Business Intelligence and Analytics for Server Manufacturing	IBM Corporation	50%	\$33,456	1/1/2019	12/31/2019
Krishnaswa Srihari	Research in Radio Frequency and Power Packaging Technologies	General Electric Company Res and Dev Center	50%	\$30,280	1/7/2019	1/6/2020
Krishnaswa Srihari	Quality Engineering Research at an Electronics Manufacturing Service Provider	SMTC Manufacturing Corporation	50%	\$33,166	1/7/2019	1/6/2020
Krishnaswa Srihari	Research in Electronics Manufacturing and Automation	Sanmina Corporation	50%	\$38,561	7/2/2018	7/1/2019
Krishnaswa Srihari	Process Analysis and Performance Excellence for Integrated Delivery Care Systems	Montefiore Hospital and Medical Center	50%	\$34,690	8/15/2018	8/14/2019
Krishnaswa Srihari	System in Package (SiP) Assembly Engineering Research and Development	Analog Devices	50%	\$14,858	8/13/2018	8/12/2019
Krishnaswa Srihari	Supporting New Logistic Network and Transportation System Implementation	Raymond Corporation	50%	\$29,969	8/6/2018	8/5/2019
Krishnaswa Srihari	Business Intelligence & Performance Improvement at UHS	United Health Services Hospitals Incorporated	50%	\$178,061	8/27/2018	8/26/2019
Krishnaswa Srihari	Business Process Engineering Support for Network Management Systems (CMO)	Montefiore Hospital and Medical Center	50%	\$32,895	8/27/2018	8/26/2019
Krishnaswa Srihari	Improving Quality, Safety and Patient Flow and Outpatient Medication Management	Memorial Sloan Kettering Cancer Center	50%	\$67,642	8/27/2018	8/26/2019
Krishnaswa Srihari	Process Research and Development for Complex Surface Mount Device Assemblies	Smart Modular Technologies Inc	50%	\$33,185	8/27/2018	8/26/2019
Krishnaswa Srihari	Research in Supply Chain Management Practices in the Electronics Industry	Sanmina Corporation	50%	\$33,613	1/7/2019	1/6/2020
Seungbae Park	Snake Creek Lasers dba Advanced Photonic Sciences Participating Membership in the IEEC	Snake Creek Lasers LLC	100%	\$5,000	5/1/2019	4/30/2020
Seungbae Park	Juniper's Full Membership in the IEEC, 2019-20	Juniper Networks Incorporated	100%	\$60,000	6/1/2019	5/31/2020

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Seungbae Park	Amphenol's Participating Membership in the IEEC 2019-2020	Amphenol Aerospace Operations	100%	\$5,000	3/1/2019	2/29/2020
Seungbae Park	Unison's Participating Membership in the IEEC 2019-2020	Unison Industries LLC	100%	\$5,000	4/1/2019	3/31/2020
Seungbae Park	Endicott Research Group, Inc. Full Membership in the IEEC, 2019-20	Endicott Research Group Incorporated	100%	\$30,000	4/1/2019	12/31/2019
Seungbae Park	Harris Participating Membership in the IEEC	Harris Corporation	100%	\$5,000	3/4/2019	3/3/2020
Seungbae Park	Ashlawn Energy's Full membership in the IEEC, 2019-20	Ashlawn Energy, LLC	100%	\$40,000	5/1/2019	4/30/2020
Seungbae Park	BW Elliott's participating membership in the IEEC, 2019-20	B.W. Elliott Manufacturing Company LLC	100%	\$5,000	5/1/2019	4/30/2020
Seungbae Park	MA/COM's participating membership in the IEEC, 2019-20	MACOM Technical Solutions Incorporated	100%	\$5,000	4/12/2019	4/11/2020
Seungbae Park	Mosaic Microsystems Participating Membership in the IEEC, 2019-20	MOSAIC Microsystems	100%	\$5,000	5/15/2019	5/14/2020
Seungbae Park	Raymond Corporation participating membership in the IEEC, 2019-20	Raymond Corporation	100%	\$5,000	5/24/2019	5/23/2020
Seungbae Park	i3 Electronics' Participating membership in the IEEC 2019-2020	i3 Electronics Incorporated	100%	\$5,000	3/1/2019	2/29/2020
Seungbae Park	Bell Semiconductor's Participating Membership in the IEEC, 2019-20	Bell Semiconductor	100%	\$5,000	5/15/2019	5/14/2020
Seungbae Park	Menlo Microsystems, Inc. Participating Membership in the IEEC, 2018-19	Menlo Microsystems Incorporated	100%	\$3,000	11/15/2018	11/14/2019
Seungbae Park	Smart Modular's Participating Membership in the IEEC, 2019-20	Smart Modular Technologies Inc	100%	\$5,000	5/1/2019	4/30/2020
Seungbae Park	EMD Performance Materials' IEEC Participating Membership, 2018-2019	EMD Performance Materials	100%	\$3,000	9/12/2018	9/11/2019
Seungbae Park	mIQrotech's participating membership in the IEEC, 2018-19	mIQrotech LLC	100%	\$3,000	9/4/2018	9/3/2019
Seungbae Park	Prismark Partners LLC Participating Membership in the IEEC, 2018-19	Prismark Partners LLC	100%	\$25,000	9/1/2018	8/31/2019

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Seungbae Park	Corning's Membership in the IEEC 2018-19	Corning Incorporated	100%	\$60,000	10/1/2018	9/30/2019
Seungbae Park	BAE's Membership in the IEEC, 2019	BAE Systems Controls Incorporated	100%	\$60,000	1/1/2019	12/31/2019
Seungbae Park	DuPont's IEEC Participating Membership, 2018-19	E.I. du Pont de Nemours and Company	100%	\$3,000	10/1/2018	9/30/2019
Seungbae Park	Sanmina's Participating Membership in the IEEC 2019-2020	Sanmina Corporation	100%	\$5,000	2/15/2019	2/14/2020
Seungbae Park	Datum Alloys membership in the IEEC, 2018-19	Datum Alloys Incorporated	100%	\$3,000	10/22/2018	10/21/2019
Seungbae Park	SunRay Scientific participating membership in the IEEC, 2018-19	SunRay Scientific LLC	100%	\$3,000	11/1/2018	10/31/2019
Seungbae Park	Pelitex Inc.'s Participating Membership in the IEEC, 2018-19	Pelitex Incorporated	100%	\$3,000	11/15/2018	11/14/2019
Seungbae Park	Lockheed's Membership in the IEEC, 2019	Lockheed Martin Corporation	100%	\$60,000	1/1/2019	12/31/2019
Seungbae Park	Universal Instruments' Participating Membership in the IEEC, 2019	Universal Instruments Corporation	100%	\$5,000	1/1/2019	12/31/2019
Seungbae Park	Knowles Participating Membership in the IEEC 2019-2020	Knowles Capacitors-Dielectric Laboratories	100%	\$5,000	3/1/2019	2/29/2020
Seungbae Park	Analog Devices Full Membership in the IEEC 2019-2020	Analog Devices, Incorporated	100%	\$60,000	2/8/2019	2/7/2020
Seungbae Park	Advanced Semiconductor Engineering IEEC Membership 2018-19	Advanced Semiconductor Engineering Incorporated	100%	\$60,000	9/1/2018	8/31/2019
Tara Dhakal	STTR Phase I: Continuous Flow Monitor to Detect Waterborne Arsenic	Quansor Corporation	50%	\$58,437	2/1/2019	1/31/2020
Tara Dhakal	SIPS: Development of Highly Efficient Perovskites with Innovative Material Concepts	US Department of Energy	50%	\$100,000	10/1/2018	3/31/2020
Tara Dhakal	Superhydrophobic Perovskite Quantum Dots For Improved Reliability Of Photovoltaic Materials	US Department of Energy	50%	\$100,009	1/1/2019	6/30/2020
Tara Dhakal	A Low-cost Energy Storage System (LESS) to Enable High Solar Energy Penetration into Distribution Grids	US Department of Energy	14%	\$391,502	1/1/2019	12/31/2021

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Total # Credited 50.98

Total \$ Credited \$2,589,447

Total Proposals Submitted:	508.00
Total Amount Requested:	\$204,417,827