

Awards from Federal, Massachusetts, or Municipal Entities for Calendar Year 2022 - Quarter Q4

Awarded Date	PI	Sponsor Name	Title	Obligated Total \$
10/3/2022	Gleason, Colin J	NATIONAL AERO AND SPACE ADMINISTRATION	A first global analysis of daily riverine gas exchange using the SWOT satellite Bayesian remote sensing, and carbon transport modeling	\$22,500
10/4/2022	Hannahan, Michael T	U.S. DEPARTMENT OF STATE	FY 2020 Study of the U.S. Institute for Student Leaders from Pakistan on Comparative Public Policymaking	\$399,972
	Muthukumar, Murugappan	NIH-NATIONAL INSTITUTES OF HEALTH	Computational Design Engine for Accurate and Efficient Sequencing of DNA and RNA	\$155,115
	Stratton, Margaret M	NIH-NATIONAL INSTITUTES OF HEALTH	Unraveling the molecular events driven by CaMKII in Ca2+-coupled cells	\$345,584
	Vargas, Yasmine	U.S. DEPT OF HEALTH AND HUMAN SERVICES	National Center on Program Management and Fiscal Operations (NCPMFO)	\$6,500,000
10/5/2022	Gubrium, Aline C	MA DEPARTMENT OF PUBLIC HEALTH	Using Participatory Methods to Assess ASRH Outcomes Among Diverse Youth in Massachusetts	\$109,990
	MacLean, Meghan G	MA EXEC OFFICE OF ENERGY & ENVIRON AFF	Update and extend forest carbon and land sector analysis from the 2050 Roadmap Study to inform the development of a Natural Working Lands plan and the Clean Energy and Clim..	\$62,076
10/6/2022	Catanzaro, Paul F	NORTHERN RESEARCH STATION (USFS)	Challenge Cost-share Agreement between the USDA Forest Service, Northern Research Station and the University of Massachusetts Amherst 2022 - NWOS Implementation	\$65,000
	Griffin, Curtice R	U.S. FOREST SERVICE	The effects of natural and anthropogenic influences on wildlife populations 18-JV-11242307-083	\$98,800
	Riessman, Robin E	MA EXEC OFC OF PUBLIC SAFETY & SECURITY	FFY 2023 - CRASH E-MANUAL (PHASE THREE): Law Enforcement Agency Targeted Resources to Improve Crash Data Quality Project, TR-23-02-01, F405CSB/80000405	\$149,362
	Sleegers, Frank	CITY OF SPRINGFIELD	University of Massachusetts Design Center 2022-2023	\$8,000
	Wang, Daniel Q	NATIONAL AERO AND SPACE ADMINISTRATION	X-raying hyperluminous sub-millimeter galaxies via strong gravitational lenses	\$117,784
	Warren, Paige S	U.S. FOREST SERVICE	Pollinator Habitat in Log Landings (PHiLL)	\$22,500

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10/11/2022	Cracco, Elizabeth J	MA DEPARTMENT OF HIGHER EDUCATION	ARPA Mental Health Funds	\$824,449
10/12/2022	Gordon, Jennifer R	MA DEPT OF ELEMENTARY & SECONDARY ED	DESE ACLS	\$400,000
	Haas, Laura M	U.S. DEPARTMENT OF EDUCATION	New Voices Scholarship - Robotics program, including scholarships	\$1,000,000
10/13/2022	Vardatira, Sharon M	MA EXEC OFC OF PUBLIC SAFETY & SECURITY	FFY2023 – Annual Statewide Seat Belt Survey	\$171,233
10/14/2022	Brown, Casey M	BUREAU OF RECLAMATION	Upper Rio Grande Futures Modeling	\$87,704
	Keiser, Ashley D	U.S. FOREST SERVICE	Forest health after an invasive pest: changes to forest composition and soil nutrient status following hemlock woolly adelgid invasion	\$20,329
10/17/2022	Andreadis, Konstantinos	U.S. GEOLOGICAL SURVEY	A data-driven framework to inform projections of aquatic flows in the Northeast	\$144,024
10/18/2022	Conroy, Christian M	MA OFFICE OF BUSINESS DEVELOPMENT	FY23 MA Office of Business Development MSBDC Cash Match	\$1,244,286
			FY23 MA Office of Business Development PTAC Cash Match	\$181,936
	SENA, MARK P	MA DEPARTMENT OF HIGHER EDUCATION	FY2023 MAICEI Implementation/Continuation Grant	\$200,000
10/20/2022	Boutt, David F	MA DEPT OF CONSERVATION AND RECREATION	MAP GROUNDWATER FLOODING VULNERABILITY UNDER CURRENT AND FUTURE CLIMATE CHANGE IN THE STATE	\$175,000
	Gordon, Jennifer R	MA DEPARTMENT OF HIGHER EDUCATION	DHE SSA Year 9 FY22	\$90,000
	Henry, Dana	EXECUTIVE OFFICE OF THE TRIAL COURT	Instructional Design Consultant	\$35,000

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10/21/2022	Park, Chul	NATIONAL SCIENCE FOUNDATION	Developing Irradiance-Controlled Mixing to Overcome Photoinhibition for Advancing Energy Efficient Wastewater Treatment by Oxygenic Photogranules	\$109,988
10/24/2022	Gonzales, Eric J	MA DEPARTMENT OF TRANSPORTATION	Data-Driven Approaches for Transit Capital Planning	\$100,000
10/25/2022	Prokofiev, Nikolay V	U.S. DEPARTMENT OF ENERGY	Diagrammatic Monte Carlo approach to real-frequency response functions and the spin-fermion model of hot spots	\$140,000
10/26/2022	Deconto, Robert M	NATIONAL AERO AND SPACE ADMINISTRATION	Climate and Cryosphere International Project Office of the World Climate Research Program	\$247,928
	Holden, James F	NATIONAL AERO AND SPACE ADMINISTRATION	Competition among thermophilic autotrophs in resource-limited environments	\$71,780
	Narayanan, Gopalakrishnan	SMITHSONIAN ASTROPHYSICAL OBSERVATORY	Mid-scale RI-1 (M1:DP): Next Generation Event Horizon Telescope Design	\$200,000
	Reinhart, Peter H	MA DEPARTMENT OF PUBLIC HEALTH	Master Agreement - RFR 233132 Specialized Laboratory Testing Services	\$2,000,000
	Senner, Nathan R	NATIONAL AERO AND SPACE ADMINISTRATION	Multi-source Detection and Monitoring of Ephemeral Shallow Wetlands in an Agricultural Prairie System	\$50,000
	Van Wyk, Jennifer I	NATL INSTITUTE OF FOOD AND AGRICULTURE	Interactive effects of climate change and pathogens on pollinator health and pollination services: Bombus impatiens and tomato	\$215,826
10/27/2022	Chen, Yu	NIH-NATIONAL INSTITUTES OF HEALTH	Automatic Wide-Field Optical Coherence Tomography for Assessment of Transplant Kidney Viability	\$671,945
10/28/2022	Hatte, Marie-Francoise I	MA DEPT OF ENVIRONMENTAL PROTECTION	Acid Rain Monitoring Project FY23	\$46,249
	Mann, Matthew T	MA DEPARTMENT OF TRANSPORTATION	On-the-Job Training Supportive Services (OJT/SS) Program FFY 2021	\$140,143
	St Laurent, Christine W	NIH-NATIONAL INSTITUTES OF HEALTH	Interaction of physical activity and sleep in early childhood and their influence on cognition and the hippocampus	\$75,002

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10/28/2022	Tobiason, John E	MA DEPT OF ENVIRONMENTAL PROTECTION	MassDEP Small Systems Assistance	\$220,000
10/31/2022	Conroy, Christian M	SMALL BUSINESS ADMINISTRATION	FY2023 MA Small Business Development Center Proposal	\$625,205
	Lacreuse, Agnes C	NIH-NATIONAL INSTITUTES OF HEALTH	Behavioral and Neural Indicators of Prodromal Alzheimer's Disease	\$2,500
11/1/2022	Catanzaro, Paul F	MA EXEC OFFICE OF ENERGY & ENVIRON AFF	Conservation Restriction Review for the Executive Office of Energy and Environmental Affairs	\$57,680
	Jeranyama, Peter	AGRICULTURAL RESEARCH SERVICE	Understanding water-plant interactions in cranberry farms	\$95,798
	Oulhote, Youssef	NIH-NATIONAL INSTITUTES OF HEALTH	The interplay of early life exposure to environmental pollutants and folate system in the etiology of autistic behaviors	\$627,780
	Pocar, Andrea P	NATIONAL SCIENCE FOUNDATION	nEXO: a Search for Neutrino-less Double Beta Decay with a Tonne-Scale Enriched Xenon Time Projection Chamber	\$77,458
11/2/2022	Doherty, Jeffery J	MA DEPT OF AGRICULTURAL RESOURCES	FY23 ISA Massachusetts Pesticide Analytical Laboratory (MPAL) Services (FEDERAL)	\$79,000
	Xia, Qiangfei	OFFICE OF NAVAL RESEARCH	Defects, noise, and coupled ionic-electronic transport in neuromorphic devices	\$20,000
11/7/2022	Clay, Wharton C	MA DEPT OF AGRICULTURAL RESOURCES	Massachusetts Pesticide Exams, Phase II	\$88,272
	Elkinton, Joseph S	AGRICULTURAL RESEARCH SERVICE	Biological control of Emerald Ash Borer to Protect North American ash	\$169,156
11/9/2022	Morita, Yasu	NIH-NATIONAL INSTITUTES OF HEALTH	Cell envelope integrity in mycobacteria: interplay of lipoglycans, peptidoglycan, and capsular polysaccharides	\$230,220
11/14/2022	Knodler Jr, Michael A	MA DEPT OF STATE POLICE	Commercial Vehicle Safety Plan and Ongoing Crash Data Analysis	\$175,000

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11/15/2022	Jensen, David D	U.S. ARMY RESEARCH OFFICE	Continuous Iterative Modeling and Repair in Response to Novelty (CIMARRON)	\$216,444
11/17/2022	Henry, Dana	MA DEPT. OF HOUSING & COMMUNITY DEVELOP	DHCD On-Going Support FY23	\$38,265
	Murray, John G	MA DEPT OF TRANSITIONAL ASSISTANCE	FY 23 INFP CIES	\$7,677
11/21/2022	Pobezinsky, Leonid A	NIH-NATIONAL INSTITUTES OF HEALTH	Defining post-transcriptional mechanisms that control CD8 T cell longevity, proliferation and differentiation	\$540,675
	Schiffman, Jessica D	NATIONAL SCIENCE FOUNDATION	BRITE: SYNERGY: Chemically resilient, fouling resistant separation membranes manufactured using aqueous phase inversion	\$386,034
11/22/2022	Grason, Gregory M	U.S. DEPARTMENT OF ENERGY	Shaping Symmetry and Molding Morphology of Triply-Periodic Assemblies via Molecular Design and Processing of Block Copolymers	\$220,000
	Zhang, Xiaohui	NIH-NATIONAL INSTITUTES OF HEALTH	Single-cell analysis of endothelial mechanotransduction mediated by endothelial surface glycocalyx	\$50,687
11/29/2022	Peyton, Shelly	U.S. ARMY RESEARCH OFFICE	Force-Activated, Mechanically Adaptive Soft Materials: Harnessing Cryptic Bonds in Synthetic Systems	\$75,000
11/30/2022	Karatsoreos, Ilia	NIH-NATIONAL INSTITUTES OF HEALTH	The role of endocannabinoids in circadian disruption induced metabolic dysregulation	\$434,278
12/1/2022	Larsen, Isaac	NATIONAL SCIENCE FOUNDATION	Conference: GLOW: Support for the 2023 Penrose Conference on the role of outburst floods in Earth and planetary evolution	\$25,000
12/2/2022	Boutt, David F	MA DEPT OF ENVIRONMENTAL PROTECTION	Hydrogeological Reviews for MassDEP - FY23	\$84,350
	Breger, Dwayne S	MASSACHUSETTS CLEAN ENERGY CENTER	Expanding, Broadening, and Sustaining the UMass Amherst Offshore Wind Professional Certificate Program	\$219,697
	Chen, Wen	NATIONAL SCIENCE FOUNDATION	CAREER: Understanding Microstructure Evolution and Deformation Mechanism of Strong yet Ductile Nanolamellar High-Entropy Alloys Produced by Additive Manufacturing	\$100,118

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12/2/2022	Gleason, Colin J	NATIONAL AERO AND SPACE ADMINISTRATION	Characterizing Future Changes in Glacier Melt, Snow melt, and Regional Runoff to Inform Adaptation Decisions in High Mountain Dependent Economies.	\$119,907
	Solak, Senay	MASSACHUSETTS STATE AUDITOR'S OFFICE	Establishing an IT Audit Unit within OSA	\$99,978
	Srimathveeravalli, Govindarajan	MASSVENTURES	Prostate cancer diagnostic technology	\$16,250
12/5/2022	Fritz-Laylin, Lillian	NATIONAL SCIENCE FOUNDATION	CAREER: The developmental response of a parasitic chytrid fungus to amphibian mucus	\$200,000
12/6/2022	De Bruyn Kops, Stephen M	OFFICE OF NAVAL RESEARCH	Stratified Turbulence at High Dynamic Range	\$10,000
12/7/2022	Balasubramanian, Hari J	DEPARTMENT OF VETERANS AFFAIRS	Developing a New Method to Improve Primary Care Workforce Management	\$31,200
	Chien, Peter	NIH-NATIONAL INSTITUTES OF HEALTH	Regulated Proteolysis in Bacteria Development and Stress Response	\$341,784
	Rotello, Vincent M	NIH-NATIONAL INSTITUTES OF HEALTH	Targeting of Bioorthogonal Chemotherapeutic Nanozymes to Tumor-Associated Macrophages	\$26,191
	Walsh, James P	NATIONAL SCIENCE FOUNDATION	CAREER: Harnessing Microfabrication for Chemical Control During High Pressure Synthesis of Non-Equilibrium Carbides	\$306,902
	Yao, Jun	NIH-NATIONAL INSTITUTES OF HEALTH	Bioinspired mechanogating biosensors for real-time biodetection	\$161,257
12/8/2022	Bergan, Joseph F	NIH-NATIONAL INSTITUTES OF HEALTH	Synaptic contributions to sexually dimorphic circuit architecture	\$350,321
12/9/2022	Fissore, Rafael A	NIH-NATIONAL INSTITUTES OF HEALTH	Mammalian Fertilization: Identifying the second sperm factor that induces residual calcium oscillations and its contributions to egg activation	\$234,765
	Hankinson, Susan	NIH-NATIONAL INSTITUTES OF HEALTH	Metabolomic profile of chronic distress in relation to diseases of aging across diverse populations	\$839,926

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12/12/2022	Kwon, Do-Hoon	U.S. ARMY RESEARCH OFFICE	Single and dual polarized metasurface cloaks for microwave invisibility	\$70,302
	Murray, John G	MA DEPT OF TRANSITIONAL ASSISTANCE	FY 23 INFP CIES	\$15,869
	Skouta, Rachid	MASSVENTURES	Novel Ferroptosis Inducers to Target RAS-Positive Tumors	\$16,250
12/13/2022	Avery, Mary W	MA DEPARTMENT OF EARLY EDUCATION & CARE	EEC Content Expert FY23-24	\$1,200,000
12/15/2022	Dutta, Joyita	NIH-NATIONAL INSTITUTES OF HEALTH	Sleep metrics from machine learning for Alzheimer's disease diagnostics	\$201,442
	Jacobson, Jennifer	MASSACHUSETTS CULTURAL COUNCIL	FY23 Cultural Investment Portfolio: Juniper Initiative for Literary Arts and Action	\$11,600
	Woerman, Amanda L	NIH-NATIONAL INSTITUTES OF HEALTH	Effect of agent and host factors on alpha-synuclein strain pathogenesis	\$612,310
12/16/2022	Sakamoto, Michael A	MASSACHUSETTS CULTURAL COUNCIL	Cultural Investment Portfolio: UMASS Amherst Asian Arts & Culture Program (FY23)	\$7,600
12/19/2022	Dutta, Joyita	NIH-NATIONAL INSTITUTES OF HEALTH	Super-Resolution Tau PET Imaging for Alzheimer's Disease	\$151,673
	Zhang, Hao	NATIONAL SCIENCE FOUNDATION	CAREER: Robot Reflections in Lifelong Adaptation	\$186,246
12/20/2022	Brena, Sergio F	MA DEPARTMENT OF TRANSPORTATION	Revised Load Rating Procedures for Deteriorated Prestressed Concrete Beams	\$24,721
	Gleason, Colin J	NATIONAL AERO AND SPACE ADMINISTRATION	Monitoring the flow of proglacial rivers in High Mountain Asia	\$50,000
	Yao, Jun	U.S. ARMY RESEARCH OFFICE	Interfacing Bio-amplitude Neuromorphic Devices with Cells	\$90,000

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12/21/2022	Emrick, Todd S	FEDERAL AVIATION ADMINISTRATION	Novel non-flammable polymers for aircraft: Synthesis, mechanics, and thermal evaluation	\$152,090
12/23/2022	Russell, Thomas P	U.S. ARMY RESEARCH OFFICE	Adaptive Assemblies of Soft Matter at Interfaces	\$43,651
	Vandenberg, Laura N	NIH-NATIONAL INSTITUTES OF HEALTH	Near-Peer Mentoring in Environmental Health: Chemical Exposures and Disease Risk	\$106,309
12/27/2022	Dhankher, Om P	NIH-NATIONAL INSTITUTES OF HEALTH	A novel strategy for arsenic phytoremediation	\$249,339
12/28/2022	Gordon, Jennifer R	MA DEPT OF DEVELOPMENTAL SERVICES	DDS Respite	\$150,000
	Ping, Jinglei	NIH-NATIONAL INSTITUTES OF HEALTH	Highly Integrated Nucleic-Acid Analysis Using Graphene Bioelectronics	\$189,870
Grand Total				\$27,833,551

Data as of: 1/3/2023 10:57:26 AM