

# Awards from Federal, Massachusetts, or Municipal Entities for Calendar Year 2023 - Quarter Q1

Awarded Date	PI	Sponsor Name	Title	Obligated Total \$
1/3/2023	Cooke, Michele L	U.S. GEOLOGICAL SURVEY	ShakeAlert Joint Committee for Communication, Education, Outreach, and Technical Engagement (JCCEO&TE) 2023 IPA	\$47,500
	Timme-Laragy, Alicia	NIH-NATIONAL INSTITUTES OF HEALTH	Activation of Nrf2 during embryonic development: mechanisms and consequences	\$511,460
	Waldman, David A	US ARMY CCDC SOLDIER CENTER	New Hybrid Organic-Inorganic Perovskites	\$294,862
	Xia, Qiangfei	OFFICE OF NAVAL RESEARCH	Defects, noise, and coupled ionic-electronic transport in neuromorphic devices	\$20,000
1/4/2023	Rowen, Jamie	NATIONAL SCIENCE FOUNDATION	Career: Thank you for Your Service: The Instrumentalization of Law Through Veterans Treatment Courts	\$32,356
1/5/2023	Bezanson, Kristina	MA DEPT OF CONSERVATION AND RECREATION	Legacy Tree Project	\$50,039
	Clay, Wharton C	MA DEPT OF AGRICULTURAL RESOURCES	UMass Extension Legislative Investment	\$695,570
	Ramasubramaniam, Ashwin	NATIONAL SCIENCE FOUNDATION	Collaborative Research: EAGER: Insights into the Hydrogen Evolution Reaction of Transition Metal Dichalcogenide Nanocrystals by In-situ Electron Paramagnetic Resonance S..	\$125,000
1/6/2023	Albertson, Craig	NIH-NATIONAL INSTITUTES OF HEALTH	Genetic and developmental mechanisms that underlie craniofacial (co)variation	\$358,518
	Gleason, Colin J	NATIONAL AERO AND SPACE ADMINISTRATION	Developing, testing, and operationalizing a cloud-based open-source system to produce a global SWOT discharge product and advance the science of discharge estimation.	\$58,992
	Lawrie, Ashley W	MA DEPT OF DEVELOPMENTAL SERVICES	Support of the DDS Respite Enhancement Grant Award	\$330,750
	ROTHCHILD, ALISSA C	NIH-NATIONAL INSTITUTES OF HEALTH	Nrf2 regulation of alveolar macrophage immune responses in vivo to Mycobacterium tuberculosis	\$194,325
	Tobiason, John E	MA DEPT OF ENVIRONMENTAL PROTECTION	Small Community and Non-Transient, Non-Community Water Systems - Lead Service Line Inventory and Lead Service Line Replacement Plan Programs	\$260,000

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1/10/2023	Crivelli, Katherine M	MA DEPARTMENT OF PUBLIC HEALTH	Comprehensive Rape Crisis Services	\$33,573
	Gross, Megan C	NIH-NATIONAL INSTITUTES OF HEALTH	Dual-Language Communication and Social-Cognitive Skills in Bilingual Children with ASD	\$152,166
1/11/2023	Ai, Chengbo	FEDERAL HIGHWAY ADMINISTRATION	Dwight David Eisenhower Transportation Fellowship - 2022	\$5,000
	Connolly, Joseph F	TOWN OF CHESTER	Southern Hilltowns Calendar Year 2022	\$91,500
1/12/2023	Sharman, Krish T	MASSACHUSETTS TECHNOLOGY COLLABORATIVE	Development/Feasibility Plan related to a Center of Excellence in Moorings & Anchors	\$60,000
1/13/2023	Lee, Chi H	NIH-NATIONAL INSTITUTES OF HEALTH	Statistical methods for breast cancer survival using the restricted mean survival time	\$79,750
1/17/2023	Kaltashov, Igor A	NIH-NATIONAL INSTITUTES OF HEALTH	An integrated mass spectrometry approach to study heparin structure-bioactivity	\$380,251
	Menon, Narayanan	NATIONAL SCIENCE FOUNDATION	Dynamics of elastic surfactants	\$500,440
1/18/2023	Gordon, Jennifer R	MA DEPT OF ELEMENTARY & SECONDARY ED	DESE AP STEM & English Yr. 10	\$250,000
	Holden, James F	NATIONAL AERO AND SPACE ADMINISTRATION	Competition among thermophilic autotrophs in resource-limited environments	\$152,200
	Lacreuse, Agnes C	NIH-NATIONAL INSTITUTES OF HEALTH	Impact of brain estrogens on cognition and brain aging in a non-human primate	\$355,700
	Schloerb, F P	NATIONAL AERO AND SPACE ADMINISTRATION	Evolution of Physical Properties of the Northern Hemisphere of Comet 67P/Churyumov-Gerasimenko	\$112,957
1/19/2023	Gubrium, Aline C	MA DEPARTMENT OF PUBLIC HEALTH	Using Participatory Methods to Assess ASRH Outcomes Among Diverse Youth in Massachusetts	\$129,973

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1/19/2023	Karatsoreos, Ilia	NIH-NATIONAL INSTITUTES OF HEALTH	The role of endocannabinoids in circadian disruption induced metabolic dysregulation	\$40,379
	Anwar, Fatima M	NATIONAL SCIENCE FOUNDATION	CAREER: Secure Timing Architecture for Untrusted Edge Systems	\$221,309
1/20/2023	Freyman, Richard L	NIH-NATIONAL INSTITUTES OF HEALTH	Spatial hearing in complex sound fields	\$392,629
	LE, HUNG V	NATIONAL SCIENCE FOUNDATION	CAREER: Geometric Techniques for Topological Graph Algorithms	\$246,590
	Martin, Craig T	NIH-NATIONAL INSTITUTES OF HEALTH	Systems for Dramatically Improved Synthetic RNA	\$275,637
1/23/2023	Gordon, Jennifer R	MA DEPARTMENT OF HIGHER EDUCATION	DHE MassTeach YR. 1 FY23	\$50,679
	Pak, ChangHui	NIH-NATIONAL INSTITUTES OF HEALTH	Molecular dissection of synaptic dysfunction in mental disorders	\$451,905
1/24/2023	Spencer, Rebecca M	NIH-NATIONAL INSTITUTES OF HEALTH	The Role of Autobiographical Memory in Late-Life Emotion Regulation	\$40,464
	Zhou, Shuang	NATIONAL SCIENCE FOUNDATION	CAREER: Chiral active nematic liquid crystals	\$135,370
1/25/2023	Emrick, Todd S	NAVAL AIR WARFARE CENTER	Increasing the Corrosion Barrier of All-Metal Alloys with Environmentally Benign Polymer Zwitterions	\$10,000
	Fritz-Laylin, Lillian	NIH-NATIONAL INSTITUTES OF HEALTH	Defining mechanisms of mitotic spindle organization in Naegleria	\$67,174
	Spencer, Rebecca M	NIH-NATIONAL INSTITUTES OF HEALTH	Longitudinal study of sleep physiology and function across toddlerhood	\$189,275
	Yao, Jun	U.S. ARMY RESEARCH OFFICE	Integrated system for multi-channel bioelectronic recording	\$129,859

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1/27/2023	Carter, Kenneth R	NATIONAL SCIENCE FOUNDATION	Intergovernmental Personnel Act (IPA)	\$325,462
	Rotello, Vincent M	NIH-NATIONAL INSTITUTES OF HEALTH	Rapid Multi-Channel Serum Profiling for Liver Disease using Fluorescent Nanosensors	\$346,043
1/30/2023	Lee, Jungwoo	NIH-NATIONAL INSTITUTES OF HEALTH	Implantable pre-metastatic niche to elucidate the impact of chemotherapy-induced metastatic relapse	\$343,973
	Rao, Siyuan	NATIONAL SCIENCE FOUNDATION	CAREER: Multifunctional Soft Neural Probes for Elucidating Spinal Cord Injury Pathophysiology	\$432,936
	Woerman, Amanda L	NIH-NATIONAL INSTITUTES OF HEALTH	Effect of agent and host factors on alpha-synuclein strain pathogenesis	\$55,254
1/31/2023	Cheng, Brian S	NATIONAL SCIENCE FOUNDATION	Investigating mechanisms underlying adaptive capacity to ocean warming	\$51,394
	Cornelison, Robert C	NIH-NATIONAL INSTITUTES OF HEALTH	Designing cancer-inspired scaffolds for neural repair	\$189,870
	Dixon-Gordon, Katherine L	NIH-NATIONAL INSTITUTES OF HEALTH	EMERGE: Ecological Momentary Evaluation of Responses to Gain/Loss and Emotions	\$384,816
	Evans, Elizabeth A	FRANKLIN COUNTY SHERIFF'S OFFICE	Evaluation of the Community Opportunity, Network, Navigation, Exploration, and Connection Team (CONNECT) Program	\$99,898
	Gordon, Jennifer R	MA DEPT OF ELEMENTARY & SECONDARY ED	DESE Influence 100 Rebid FY23	\$57,413
Evaluation services related to the Influence 100 program.			\$16,500	
2/1/2023	Bardin, Joseph C	OFFICE OF NAVAL RESEARCH	Cryogenic Circuits in Technologies for Mixed-mode Ultra Scaled Integrated Circuits (T-MUSIC) for Quantum Computing	\$99,875
2/3/2023	Hajiesmaili, Mohammadhassan	NATIONAL SCIENCE FOUNDATION	CAREER: A Robust and Data-driven Design for Carbon-intelligent Distributed systems	\$98,969

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2/3/2023	Vazey, Elena	NIH-NATIONAL INSTITUTES OF HEALTH	3/8: INIA Stress and Chronic Alcohol Interactions: Norepinephrine and corticostriatal circuit regulation of cognitive effort after chronic alcohol and stress	\$465,254
2/6/2023	Yao, Jun	NIH-NATIONAL INSTITUTES OF HEALTH	Bioinspired mechanogating biosensors for real-time biodetection	\$17,918
2/7/2023	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	\$1,990
2/8/2023	Bell, Beverley J	MA DEPARTMENT OF HIGHER EDUCATION	MASS Teach	\$30,001
2/9/2023	De Bruyn Kops, Stephen M	OFFICE OF NAVAL RESEARCH	Stratified Turbulence at High Dynamic Range	\$64,858
	Venkataraman, Dhandapani	NATIONAL SCIENCE FOUNDATION	Methods to Mitigate Dopant-Induced Disorder in Organic Electronic Materials	\$176,946
2/13/2023	Melnik, Mark A	MA SECRETARY OF STATE	SOC Pop Estimates FY23	\$312,500
2/15/2023	Woodruff, Jonathan D	U.S. GEOLOGICAL SURVEY	Managing and Promoting the Resiliency of Winter-Adapted Species to Climate Change	\$23,532
2/16/2023	Ai, Chengbo	MA DEPARTMENT OF TRANSPORTATION	A Pavement Marking Inventory and Retroreflectivity Condition Assessment Method Using Mobile LiDAR Phase 2	\$200,000
	Streiff LaBonte, Gretchen N	MA DEPARTMENT OF HIGHER EDUCATION	ARPA Hunger Free Campus Initiative	\$75,000
2/17/2023	Hyers, Robert W	NATIONAL AERO AND SPACE ADMINISTRATION	Modeling and Simulation of Electrostatically Levitated Multiphase Liquid Drops	\$50,000
			Single Source, Fluid dynamics and Solidification on ISS-EML	\$75,000
	Martin, Craig T	NIH-NATIONAL INSTITUTES OF HEALTH	Systems for Dramatically Improved Synthetic RNA	\$30,626

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2/21/2023	Bardin, Joseph C	OFFICE OF NAVAL RESEARCH	Cryogenic Circuits in Technologies for Mixed-mode Ultra Scaled Integrated Circuits (T-MUSIC) for Quantum Computing	\$107,629
	Forbes, Neil S	U.S. DEPARTMENT OF DEFENSE	Intracellular bacterial delivery of vaccine antigens to establish T cell antitumor immunity in triple negative breast cancer	\$570,810
2/22/2023	Tobiason, John E	MA DEPT OF ENVIRONMENTAL PROTECTION	ASSESSMENT OF LEAD IN SCHOOL AND EARLY EDUCATION AND CARE FACILITY DRINKING WATER	\$97,500
2/23/2023	Boakye, Jessica S	MA DEPARTMENT OF TRANSPORTATION	Cross Modal Impact Assessment for Sustainable Transportation Networks	\$99,998
	Catanzaro, Paul F	MA EXEC OFFICE OF ENERGY & ENVIRON AFF	Conservation Restriction Review for the Executive Office of Energy and Environmental Affairs	\$20,475
	Peyton, Shelly	NIH-NATIONAL INSTITUTES OF HEALTH	UMass Amherst PREP Program	\$333,822
	Tessier, Russell G	MA DEPARTMENT OF TRANSPORTATION	LIMMS Development Planning	\$300,000
2/24/2023	Collins, Paul M	NATIONAL SCIENCE FOUNDATION	Understanding Law and Legality in Media	\$137,704
	Kaltashov, Igor A	NIH-NATIONAL INSTITUTES OF HEALTH	An integrated mass spectrometry approach to study heparin structure-bioactivity	\$42,251
	Melnik, Mark A	TOWN OF PROVINCETOWN	PTown STR FY23	\$80,000
	Spencer, Rebecca M	NIH-NATIONAL INSTITUTES OF HEALTH	The Role of Autobiographical Memory in Late-Life Emotion Regulation	\$942
	Xiong, Ya Y	NATIONAL SCIENCE FOUNDATION	CAREER: HCC: Supporting Calibrated Trust in Visual Data Communication	\$94,327
2/27/2023	Chen, Jianhan	NIH-NATIONAL INSTITUTES OF HEALTH	Disordered Proteins and Dynamic Interactions in Biology and Diseases.	\$379,812

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<b>2/27/2023</b>	Christofa, Eleni	MA DEPARTMENT OF TRANSPORTATION	Accessible Bus Stop Design in the Presence of Bike Lanes	\$199,915
	Goodell, Jody J	MA DEPT OF TRANSITIONAL ASSISTANCE	Supplemental Nutrition Assistance Program Education (SNAP-Ed) FY2023	\$4,652,463
	Irwin, David E	NATIONAL SCIENCE FOUNDATION	REU Site: Computing for an Equitable Energy Transition	\$433,765
	Lanier, Jason D	MA DEPT OF CONSERVATION AND RECREATION	MA DCR Forest Health Program	\$5,000
	Remage-Healey, Luke	NIH-NATIONAL INSTITUTES OF HEALTH	Rapid Estrogen Signaling in Brain Circuits that Guide Complex Behavior	\$337,162
	Tease, Katherine E	NATIONAL SCIENCE FOUNDATION	CAREER: Establishing Coherent Frameworks for Massive Galaxy Formation and Inclusive Astronomy	\$527,050
<b>3/1/2023</b>	Beltramo, Peter J	NATIONAL SCIENCE FOUNDATION	Cloaking Anisotropic Capillary Interactions Through Tunable Nanoscale Surface Topography	\$381,851
	Melnik, Mark A	TOWN OF AMHERST	AMH AHRA Survey FY23	\$9,825
	UVIN, JOHAN E	NATIONAL HIGHWAY TRAFFIC SAFETY ADMIN.	NHTSA Toxicology Consultant Services II	\$204,736
<b>3/6/2023</b>	Melnik, Mark A	CAPE COD COMMISSION	CCC Housing Update FY23	\$7,000
	Minter, Lisa M	U.S. DEPARTMENT OF DEFENSE	Intracellular bacterial delivery of vaccine antigens to establish T cell antitumor immunity in basal-like breast cancer	\$557,247
<b>3/7/2023</b>	Melnik, Mark A	MA DEP ECONOMIC RESEARCH DATA RESOURCES	EOL DER Trust Fund FY23-24	\$133,100
<b>3/9/2023</b>	Armstrong-Abrami, Meghan E	NATIONAL SCIENCE FOUNDATION	Doctoral Dissertation Research: Educational experiences of youth Puerto Rican Spanish heritage speakers in Western Massachusetts	\$16,655

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3/9/2023	Deria, Jamilla C	MA DEVELOPMENT FINANCE AGENCY	Bowker Auditorium HVAC Air Quality and Box Office Rehab	\$60,000
	Henry, Dana	MA EXECUTIVE OFFICE OF HLTH & HUMAN SVC	EOHHS Mgmt Training FY23	\$18,000
	Thayumanavan, Sankaran	NIH-NATIONAL INSTITUTES OF HEALTH	Protein-Induced Self-Assembly and Disassembly of Nanostructures Based on Oligomers and Polymers	\$513,034
3/10/2023	Bell, Beverley J	MA DEPT OF ELEMENTARY & SECONDARY ED	FY23 FC727 Early Literacy Formative Feedback Reviews Beverley Bell	\$10,000
	Bergan, Joseph F	NIH-NATIONAL INSTITUTES OF HEALTH	Synaptic contributions to sexually dimorphic circuit architecture	\$38,924
	Lackner, Matthew A	MASSVENTURES	Scale Model Testing of the Wind Trawler: An Autonomous Unmoored Floating Wind Turbine	\$75,000
3/13/2023	Ai, Chengbo	MA DEPARTMENT OF TRANSPORTATION	Development of a Visualization, Sharing, and Processing Platform for Large-Scale Highway Point Cloud Data	\$174,999
3/16/2023	Gerasimidis, Symeon	MA DEPARTMENT OF TRANSPORTATION	3D-printed lattice-based structures for next generation bridge bearings and bridge isolation bearings	\$225,599
	Mabee, Stephen B	Maine Geological Survey	Identifying Stratigraphic Problems in New England - Subcontract	\$15,000
	Zhu, Wei	NATIONAL SCIENCE FOUNDATION	CDS&E: Robust Symmetry-Preserving Machine Learning: Theory and Application	\$48,605
3/17/2023	Lee, Jae-Hwang	ARMY RESEARCH LAB	CCE-MR-1: Designing Materials: Nanocomposite metamaterial armors	\$60,000
	Ramsey-Musolf, Michael	U.S. DEPARTMENT OF ENERGY	Fundamental Interactions in Nuclei	\$142,445
3/20/2023	Murray, John G	MA DEPT OF TRANSITIONAL ASSISTANCE	FY 23 INFP CIES	\$18,372



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3/21/2023	Moorman, David	NATIONAL SCIENCE FOUNDATION	CAREER: Frontal cortical ensemble regulation of response execution and inhibition	\$50,000
3/23/2023	Goff, Sarah L	NIH-NATIONAL INSTITUTES OF HEALTH	The Effects of Accountable Care Organizations on Disparities in Childhood Asthma Care and Outcomes	\$627,149
	Rotello, Vincent M	NIH-NATIONAL INSTITUTES OF HEALTH	Targeting of Bioorthogonal Chemotherapeutic Nanozymes to Tumor-Associated Macrophages	\$450,001
3/24/2023	Chambers, James J	MASSACHUSETTS LIFE SCIENCES CENTER	Expanding light microscopy offerings to enhance biomedical training and research in Western MA	\$1,555,276
	Nolden, Alissa	NIH-NATIONAL INSTITUTES OF HEALTH	Plasticity of sweet taste: importance of diet and receptor expression in taste buds	\$154,747
	Rauch, Jennifer	NIH-NATIONAL INSTITUTES OF HEALTH	Deciphering the Molecular Features Underlying LRP1-Mediated Tau Spread	\$388,650
	Ribbe, Alexander E	MASSACHUSETTS LIFE SCIENCES CENTER	A Cryo-Transmission Electron Microscope Facility for Western Massachusetts	\$1,655,774
	THOMAS, ERIC H	MA DEPT OF AGRICULTURAL RESOURCES	FY2023 Massachusetts Aquaculture Center Funding	\$8,431
3/27/2023	Rawlins, Michael A	NATIONAL SCIENCE FOUNDATION	Collaborative Research: The role of capillaries in the Arctic hydrologic system.	\$294,517
3/28/2023	Senner, Nathan R	NATIONAL SCIENCE FOUNDATION	Climate Change, community dynamics, and long-distance migratory birds	\$159,259
3/29/2023	McCallum, Andrew K	NATIONAL SCIENCE FOUNDATION	Collaborative Research: SOS-DCI / HNDS-R: Advancing Semantic Network Analysis to Better Understand How Evaluative Exchanges Shape Scientific Arguments	\$225,000
	Peyton, Shelly	U.S. ARMY RESEARCH OFFICE	Force-Activated, Mechanically Adaptive Soft Materials: Harnessing Cryptic Bonds in Synthetic Systems	\$60,313
3/30/2023	Katz, Paul	NATIONAL SCIENCE FOUNDATION	Collaborative Research: Higher-order processing in a peripheral neural structure of a nudibranch mollusc	\$997,100

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<b>3/30/2023</b>	Lacreuse, Agnes C	NIH-NATIONAL INSTITUTES OF HEALTH	Impact of brain estrogens on cognition and brain aging in a non-human primate	\$31,616
	Melnik, Mark A	MA DEPARTMENT OF HIGHER EDUCATION	DHE Enrol Proj FY23	\$18,500
	Murray, John G	MA DEPT OF TRANSITIONAL ASSISTANCE	FY 23 INFP CIES	\$11,263
<b>3/31/2023</b>	Gordon, Jennifer R	TOWN OF AMHERST	Amherst CRESS FY23	\$33,500
	Oke, Olufolajimi B	MA DEPARTMENT OF TRANSPORTATION	Robust decision-making framework for sustainable operations and planning of MBTA rapid transit vehicles	\$124,999
	Paredes, Cliff A	SMALL BUSINESS ADMINISTRATION	FY2023 MA Small Business Development Center Proposal	\$1,987,734
	Rao, Siyuan	NIH-NATIONAL INSTITUTES OF HEALTH	Magnetic Modulation on Targeted Neural Circuits in Autism	\$249,000
<b>Grand Total</b>				<b>\$31,774,025</b>

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