To: Massachusetts Delegation Legislative Directors, Education LAs and Science LAs

From: **Boston University** – Jennifer Grodsky and Emily Burlij, Federal Relations
Harvard University – Suzanne Day, Kara Haas, and Peter DeYoe, Office of Federal Relations
Massachusetts Institute of Technology – David Goldston, Philip Lippel, Hannah Frye, and Tom Giancola, Washington Office
Tufts University – Mary Jeka and Rocco DiRicco, Government and Community Relations

Date: March 13, 2023

Re: Fiscal Year 2024 Programmatic Requests

To support your programmatic requests to the Appropriations Committee, please find attached the FY2024 funding priorities for Massachusetts's research universities. We were grateful for the MA congressional delegation's strong support for research and education in FY2023, and we look forward to working with you to grow and diversify the Commonwealth's innovation and education ecosystem in the coming year.

As the FY2024 appropriations process begins, we encourage you to improve on the positive outcomes in the FY2023 omnibus package and fund agencies and programs that expand and support college access and affordability and advance scientific research and innovation in areas ranging from Alzheimer's and artificial intelligence to quantum information science, investments that seek to make a real difference in the lives of families in your district and across the country. In particular, we hope you will build on the significant increase for the Pell Grant program and the National Institutes of Health in the Consolidated Appropriations Act of 2023 and match the President's request for sizable new investments in the National Science Foundation (NSF) and the Department of Energy's Office of Science (DOE OS), a crucial downpayment to attaining the authorized funding levels in the CHIPS & Science Act (P.L. 117-167). It is imperative that Congress sustains this momentum with strong, consistent funding for research and education to meet the grand challenges of our time.

With Massachusetts's leadership in higher education and education dependent on robust federal investments, we appreciate that both Congress and the White House have signaled support for dramatically increasing student financial aid and invigorating science agencies like NSF and DOE OS, and we look forward to working with you to enact these increases in FY2024.

Thank you for considering these requests. We appreciate your ongoing advocacy on behalf of our students, faculty, and staff.

LABOR, HEALTH, AND HUMAN SERVICES, EDUCATION AND RELATED AGENCIES

National Institutes of Health (NIH)
FY 2024 Request: At least $50.9 billion for NIH
FY 2023 Enacted: $47.5 billion
President's Budget Request: $48.6 billion
Dear Colleague: Generally circulated by Sen. Bob Casey (D-PA)

More than 200 Massachusetts institutions successfully competed for over $3.2 billion in funding from NIH in FY2022. At our universities, researchers are making discoveries to advance treatments and cures for diseases such as cancer, Alzheimer's disease, and mental health disorders. NIH also provides irreplaceable training support to students and early career biomedical researchers; this support must be expanded grow a workforce that is diverse as well as excellent. Our request would allow the agency to keep pace with inflation as well as real growth in NIH-funded research; support for the Advanced Research Projects Agency – Health (ARPA-H) should complement, not displace, the diverse investments in biomedical research at NIH.

Advanced Research Projects Agency – Health (ARPA-H)
FY2024 Request: $2.5 billion
FY 2023 Enacted: $1.5 billion
President's Budget Request: $2.5 billion

The Advanced Research Projects Agency for Health (ARPA-H) seeks to transform health care by bringing together a variety of scientific disciplines to tackle specific health problems that require research breakthroughs. This will complement the approach of NIH, which focuses more on discovery research in the biomedical sciences. Modeled on DARPA, ARPA-H will fund high-risk, high-reward research using nimble contracting approaches and bold, cross-disciplinary milestone-driven projects to accelerate the development of health solutions that will be accessible to diverse populations. We support the President's request of $2.5 billion, which will allow the new agency to hire program managers and initiate new projects.

Department of Education, Pell Grants
FY 2024 Request: $13,000 Maximum Award
FY 2023 Enacted: $7,395 Maximum Award
President's Budget Request: $8,215 Maximum Award
Dear Colleague: Generally circulated by Rep. Marcia Fudge (D-OH)

Although Congress made a significant down payment on the Pell Grant program last year, we encourage you to continue to work toward the doubling of the maximum award for students with the most financial need The Pell Grant program is the cornerstone of federal student aid portfolio, helping more than 95,000 students attend Massachusetts colleges and universities. Our universities supplement the Pell Grant and other federal aid programs by providing students with our own institutional aid. As a result, we can maintain affordability and outstanding educational quality.

Department of Education, Federal Work Study (FWS)
FY 2024 Request: $1.55 billion
FY 2023 Enacted: $1.23 billion
President's Budget Request: $1.23 billion
Dear Colleague: Generally circulated by Sen. Kirsten Gillibrand (D-NY)

Federal Work Study helps student succeed in college and prepare for the world of work. Massachusetts universities participate in campus-based student aid programs at a very high level, with nearly 19,000 students in Massachusetts receiving FWS in the 2020-21 academic year.

Department of Education, Supplemental Education Opportunity Grant (SEOG)
FY 2024 Request: $1.115 billion
FY 2023 Enacted: $910 million
President's Budget Request: $910 million
Dear Colleague: Generally circulated by Sen. Kirsten Gillibrand (D-NY)

Campus-based student aid programs help students by leveraging federal dollars with universities' own aid. SEOG awards are available to students with "exceptional need." More than 46,000 students in Massachusetts received SEOG during the 2020-21 academic year.

Department of Education, Institute of Education Sciences
FY 2024 Request: $900 million
FY 2023 Enacted: $807.6 million
President's Budget Request: $870.9 million
Dear Colleague: Generally circulated by Sen. Jeff Merkley (D-OR) and Rep. Suzanne Bonamici (D-OR)

Investing in peer-reviewed education research activities at the Institute of Education Sciences results in innovations in both teaching and learning, improving classrooms around the nation. IES is the only federal agency exclusively devoted to funding educational research, and is playing a critical role in understanding learning loss due to the pandemic. A 2022 National Academies report laid out an equity-oriented science agenda for IES; an infusion of funds is needed to make this goal a reality.

Department of Education, International Education and Foreign Language
FY 2024 Request: $173.6 million
FY 2023 Enacted: $85.7 million
President's Budget Request: $85.7 million
Dear Colleague: Generally circulated by Sens. Tammy Baldwin (D-WI) and Todd Young (R-IN)

The Title VI/ Fulbright-Hays International Education and Foreign Language programs support training in critical foreign languages, educational outreach activities for K-12 schools, and curriculum development for the multidisciplinary study of regions around the world, including Eurasia, Africa, and the Middle East. In an increasingly interconnected world, these international

education programs are an essential means for Massachusetts to develop a globally fluent citizenry.

Department of Education, Graduate Assistance in Areas of National Need (GAANN)
FY 2024 Request: $35 million
FY 2023 Enacted: $23.5 million
President's Budget Request: $23.5 million

GAANN fellowships provide financial support for Massachusetts graduate students pursuing doctoral education in fields that are critical to national priorities, including: biology; chemistry; computer and information sciences; engineering; mathematics; nursing; physics; and educational assessment, evaluation and research. Our request is the program's authorized level.

COMMERCE, JUSTICE, SCIENCE AND RELATED AGENCIES

National Science Foundation (NSF)
FY 2024 Request: $11.9 billion
FY 2023 Enacted: $9.87 billion
President's Budget Request: $11.3 billion
Dear Colleague: Generally circulated by Sen. Ed Markey (D-MA)

NSF is the federal government's primary funder of basic research, supporting work across scientific disciplines with the potential to foster breakthrough discoveries. In FY2022, NSF provided more than 1,200 competitive awards to more than 100 institutions in Massachusetts, with $469 million invested in fundamental research, 93 million in STEM education, and 31 million in Massachusetts businesses. Last year, Congress recognized the enormous role NSF plays in the American innovation ecosystem when it enacted the CHIPS & Science Act (P.L. 177-167), authorizing historic funding increases to meet the societal challenges of our time. Those authorizations must be met with appropriated funds to meet the bill's vision. Providing $11.9 billion will allow the agency to fund additional meritorious proposals across all its research directorates, including the new Technology, Innovation and Partnerships Directorate, as well as implement the numerous new programs and policies in CHIPS & Science.

National Aeronautics and Space Administration (NASA) Science account
FY 2024 Request: $9 billion
FY 2023 Enacted: $7.79 billion
President's Budget Request: $8.26 billion

NASA is a key federal contributor to advancing research in the physical sciences on Earth and in space, and NASA-funded climate research is critical to understanding our planet. Massachusetts institutions continue to play key roles in major NASA missions. Researchers seek funding through the Science Mission Directorate's pool of grants, which are divided across the Directorate's four discipline-specific Divisions and the Space Grant Program to encourage space education.

DEFENSE

Department of Defense (DOD) Basic (6.1) Research
FY 2024 Request: $3.096 billion
FY 2023 Enacted: $2.921 billion
President's Budget Request: $2.446 billion

Our institutions support strong investments of at least six percent growth in basic research, or 6.1 programs, within the Army, Navy, Air Force, Space Force, and Defense-wide, including those program elements that support extramural research, fellowships, and partnerships across a wide variety of scientific fields from biomedicine to emerging areas like AI and telecommunications. We support investments in the University Research Initiatives programs, sustained funding for the Multidisciplinary University Research Initiative, which supports teams of faculty conducting research in high priority fields that cross typical scientific disciplines, and continued support for the National Defense Science and Engineering Graduate Fellowships program, which provides fellowships for doctoral students pursuing a degree of interest to the DOD. We also support the Minerva Initiative, a social science research program that deepens understanding of social, cultural, and political forces of strategic importance. These programs underscore the breadth of scientific inquiry, discovery, and innovation that the Department of Defense supports through all its branches.

Defense Advanced Research Projects Agency (DARPA)
FY 2024 Request: $4.307 billion
FY 2023 Enacted: $4 billion
President's Budget Request: $4.3 billion

The Defense Advanced Research Projects Agency (DARPA) funds high-risk, high-reward research that can lead to innovative applications for the warfighter. DARPA is known for its willingness to fund ambitious research, leading to game changing technologies such as GPS, automated voice recognition, and the Internet.

ENERGY AND WATER DEVELOPMENT AND RELATED AGENCIES

Department of Energy (DOE) Office of Science
FY 2024 Request: $9.5 billion
FY 2023 Enacted: $8.1 billion
President's Budget Request: $8.8 billion
Dear Colleague: Generally circulated by Reps. Bill Foster (D-IL), and Randy Weber (R-TX)
Dear Colleague: Generally circulated by Sens. Dick Durbin (D-IL) and Tammy Duckworth (D-IL)

The DOE Office of Science is a key funder of discovery-based and use-inspired basic research in fields including physics, chemistry, materials science, environmental science, advanced scientific computing, biology, and applied mathematics. Massachusetts universities and scientific organizations received more than $79 million in DOE Office of Science funding in fiscal year 2021, with major awards from every part of the Office. Massachusetts scientists also take

advantage of world-class user facilities at ten DOE National Laboratories funded through the Office of Science.

DOE Advanced Research Projects Agency-Energy
FY 2024 Request: $650 million
FY 2023 Enacted: $470 million
President's Budget Request: $650 million

ARPA-E supports early-stage energy technologies with transformational potential in order to lessen our reliance on energy imports, reduce energy-related emissions such as greenhouse gases, and improve energy efficiency. The full request would allow the agency to continue its work on the technologies needed for the transition to a net zero economy at the level authorized in the Energy Act of 2020. It would provide an additional $125 million for additional projects, coordinated across all federal agencies, on technologies to counter the most devastating impacts of climate change via adaptation and resiliency; the Administration has proposed new authorizations for these additional efforts.

There are currently 42 active ARPA-E awards in the Commonwealth. Half are led by universities. Many others are led by companies spun out of our research programs and working to develop new products and industries in Massachusetts.

INTERIOR, ENVIRONMENT AND RELATED AGENCIES

Environmental Protection Agency (EPA) Science and Technology
FY 2024 Request: $967 million
FY 2023 Enacted: $802 million
President's Budget Request: $967 million

EPA's Science and Technology (S&T) programs provide the foundation for credible decision-making to safeguard human health and ecosystems from environmental pollutants. EPA supports research in a number of areas, including air quality, chemical safety, climate change, water, and homeland security, among others, and is a key pillar to the President's efforts to advance environmental justice and equity.

National Endowment for the Humanities (NEH)
FY 2024 Request: $225 million
FY 2023 Enacted: $207 million
President's Budget Request: $211 million
Dear Colleague: Generally circulated by Rep. Dina Titus (D-NV)

NEH provides support for humanities research, such as history, preserving endangered languages and cultures, and literature. NEH programs stimulate creativity and innovation, helping us better understand the social and international dimensions of complex questions. Over the last five years, the NEH supported Massachusetts institutions with more than $42 million in grants.

National Endowment for the Arts (NEA)
FY 2024 Request: $225 million
FY 2023 Enacted: $207 million
President's Budget Request: $211 million

NEA provides support for Americans to participate in and engage with the arts across a wide variety of media and programs, including exhibits, concerts, readings, and other performances. This commitment to the arts – through state, local, and public-private partnerships – shares the benefits of these programs with every district in every state. In the past five years, the NEA distributed more than $28.7 million in grants in Massachusetts.

AGRICULTURE, RURAL DEVELOPMENT, FOOD AND DRUG ADMINISTRATION, AND RELATED AGENCIES

National Institute of Food and Agriculture (NIFA) - Agriculture and Food Research Initiative (AFRI)
FY2024 Request: $500 million
FY2023 Enacted: $455 million
President's Budget Request: $550 million

AFRI is the leading organization for competitive research grants in agricultural sciences. Massachusetts institutions play key roles in grant programs that support increased food production, improvement of food security, and enhancing human nutrition. Increased funding for this program will provide additional grant opportunities to continue this work and train the next generation of the agricultural research workforce.