



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

From: **Boston University** – Jennifer Grodsky and Emily Burlij, Federal Relations
Harvard University – Suzanne Day, Jon Groteboer and Peter DeYoe, Office of Federal Relations
Massachusetts Institute of Technology – Philip Lippel, and Kate Stoll, Washington Office

Date: March 22, 2017

Re: FY 2018 Programmatic Requests for Federal Science and Education Agencies

Please find attached information on fiscal year (FY) 2018 priorities for Massachusetts's research universities to support your programmatic requests to the Appropriations Committee. We appreciate the strong support for research and education amongst our delegation and we are happy to provide further information or assistance as required.

As you are aware, federal support for research, education, and student aid enables Massachusetts's research universities to lead the way in scientific discovery and educating future leaders. This in turn attracts investment from tech-based industries and contributes to the vibrant economy of Massachusetts. Our institutions greatly appreciate your consistent work to enhance funding for scientific research and student support across the federal government.

We recognize the tight fiscal environment our nation is currently facing. However, to ensure the U.S. remains the global leader in technology development and innovation, and to address issues of national importance, we urge Congress to continue to make research and higher education top priorities in the FY 2018 appropriations process. We hope, too, that Congress will pass FY 2017 appropriations bills that robustly fund research agencies and student aid in order to help the Commonwealth's scientists and students thrive.

Thank you for considering these requests, for your ongoing advocacy for research and education, and for your support of Massachusetts research universities.

Fiscal Year (FY) 2018 Appropriations Priorities

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

National Institutes of Health (NIH)

FY 2018 Request: \$2 billion above FY 2017 level

FY 2016 Enacted: \$32.1 billion

Dear Colleague: Circulated by Reps. David McKinley (R-W.Va.), Andre Carson (D-Ind.), Peter King (R-N.Y.), and Susan Davis (D-Calif.); Contact Zach Bunshaft (Rep. Davis)

Deadline: March 31

Massachusetts institutions received over \$2.5 billion in funding from NIH in FY 2016. Our researchers are making discoveries that bring us closer to treating and curing diseases such as cancer, Alzheimer's disease, and mental health disorders. NIH also provides irreplaceable training support to early career biomedical researchers at our institutions; this support must be sustained so as not to disrupt the research workforce pipeline.

Department of Education, Pell Grants

FY 2018 Request: \$5,920 Maximum Discretionary Award

FY 2016 Enacted: \$5,815 Maximum Discretionary Award

The Pell Grant program is the foundation of federal student aid, helping approximately 136,000 low-income students attend college in Massachusetts. Our universities build on the foundation provided by Pell by supplementing federal aid with our own institutional financial aid. As a result, we can maintain affordability and outstanding educational quality.

FY 2018 Federal Work Study (FWS) Request: \$990 million

FY 2016 FWS Enacted: \$989.7 million

Massachusetts universities participate in campus-based student aid programs at a very high level, with an FWS allocation of nearly \$44 million in the 2016-17 academic year. FWS helps student succeed in college and prepare for the world of work.

FY 2018 Supplemental Education Opportunity Grant (SEOG) Request: \$757 million

FY 2016 SEOG Enacted: \$733 million

Campus-based student aid programs help students by leveraging federal dollars with universities' own aid. SEOG awards are available to students with "exceptional need," and \$757 million would restore funding to the program's fiscal year 2010 level.

Department of Education, Institute for Education Sciences

FY 2018 Request: \$670 million

FY 2016 Enacted: \$618 million

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.

Department of Education, International Education and Foreign Language

FY 2018 Request: \$76 million

FY 2016 Enacted: \$72 million

Dear Colleague: Circulated by Reps. David Price (D-NC), Don Young (R-AK), Joseph Crowley (D-NY); Contact: Nora Blalock (Rep. Price) or Todd Sloves (Rep. Crowley)
Deadline: March 31.

Dear Colleague: Circulated by Sen. Brian Schatz (D-HI); Contact: Nicole Casart (Sen. Schatz) Deadline: March 24

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 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.

Graduate Assistance in Areas of National Need (GAANN)

FY 2018 Request: \$31 million

FY 2016 Enacted: \$29.3 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.

The Institute of Museum and Library Services (IMLS)

FY 2018 Request: Museum services: \$38.6 million; Library services: \$182.7 million

FY 2016 Enacted: Museum services: \$31.2 million; Library services: \$182.7 million

The IMLS is the primary source of federal funding for the nation's museums and libraries, including many in Massachusetts. Through grants and local programs, the IMLS supports education, preservation, digitization, and many more programs to enrich the community. In 2016, the IMLS provided \$3.2 million in grants straight to the Commonwealth and directly funded projects at more than 20 museums and libraries.

COMMERCE, JUSTICE, SCIENCE AND RELATED AGENCIES

National Science Foundation (NSF)

FY 2018 Request: \$8 billion

FY 2016 Enacted: \$7.46 billion

Dear Colleague: Circulated by Reps. G.K. Butterfield (D-NC) and David McKinley (R-WA); Contact Dennis Sills (Rep. Butterfield) or Blake Deeley (Rep. McKinley) Deadline: March 24

NSF is the federal government's primary funder of basic research, supporting work across scientific disciplines with the potential to foster breakthrough discoveries. In FY 2015, 1,344 awards totaling approximately \$457 million to 130 institutions in Massachusetts. NSF makes awards based on intellectual merit and broader societal impact, through a proven system of peer review. Our institutions support research across all NSF disciplines.

National Aeronautics and Space Administration (NASA) Science account

FY 2018 Request: \$5.9 billion

FY 2016 Enacted: \$5.5 billion

NASA's footprint in Massachusetts is profound, and provides valuable learning opportunities at our institutions for both undergraduate and graduate students. NASA's Science Mission Directorate addresses earth science, planetary science, astrophysics, and heliophysics, and funds the Space Grant Program to encourage space education. NASA is a key federal contributor to advancing research in the physical sciences on Earth and in space.

National Aeronautics and Space Administration (NASA) Space Technology

FY 2018 Request: \$796 million

FY 2016 Enacted: \$686.5 million

NASA Space Technology develops innovative tools and invests in cutting edge technology development that support some of the best minds in science. Moreover, it funds fellowship programs to support the next generation of innovators on Massachusetts campuses.

DEFENSE

Department of Defense (DOD) Basic (6.1) Research

FY 2018 Request: \$2.37 billion

FY 2016 Enacted: \$2.3 billion

Within the DOD 6.1 basic research program, our institutions support sustained funding for critical initiatives such as National Defense Education Program, which supports undergraduate scholarships, graduate fellowships, and research awards to exceptionally talented researchers; the National Defense Science and Engineering Graduate Fellowships program; and the Minerva Initiative, a unique social science research program that deepens understanding of the social, cultural, and political forces affecting areas of the world of strategic importance to the U.S.

Defense Advanced Research Projects Agency (DARPA)

FY 2018 Request: \$3.01 billion

FY 2016 Enacted: \$2.87 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 and the Internet.

ENERGY AND WATER DEVELOPMENT AND RELATED AGENCIES

Department of Energy (DOE) Office of Science

FY 2018 Request: \$5.67 billion

FY 2016 Enacted: \$5.3 billion

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 were awarded more than \$81 million in DOE Office of Science funding in fiscal year 2016.

DOE Advanced Research Projects Agency-Energy

FY 2018 Request: \$341 million

FY 2016 Enacted: \$291 million

Dear Colleague: Circulated by Rep. Don Beyer (D-VA); Contact Kate Schisler (Rep. Beyer)

Deadline: March 21 (may have flexibility)

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 hold competitions in 7 or 8 new areas. Twenty-two awards are currently being executed by Massachusetts' teams, including some at each of our universities. Twenty-eight additional awards have already completed their projects in the agency's ten-year history. We estimate ARPA-E projects have collectively brought well over \$100 million in federal funding to bear on advanced energy technology development in the Commonwealth.

INTERIOR, ENVIRONMENT AND RELATED AGENCIES

National Endowment for the Humanities (NEH)

FY 2018 Request: \$155 million

FY 2016 Enacted: \$147.9 million

Dear Colleague: Circulated by Rep. David Price (D-NC) and Rep. Leonard Lance (R-NJ);

Contact Leigh Whittaker (Rep. Price) or Bri Hearn (Rep. Lance) Deadline: March 27

Dear Colleague: Circulated by Sen. Tom Udall (D-NM); Contact Anthony Sedillo, Deadline: March 16 (flexible)

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 social and international dimensions of complex questions.