



March 30, 2017

The Honorable John Culberson
2161 Rayburn House Office Building
Washington, D.C. 20515

The Honorable Richard Shelby
304 Russell Senate Office Building
Washington, D.C. 20510

The Honorable José Serrano
2354 Rayburn House Office Building
Washington, D.C. 20515

The Honorable Jeanne Shaheen
506 Hart Senate Office Building
Washington, D.C. 20510

Dear Chairman Culberson, Ranking Member Serrano, Chairman Shelby and Ranking Member Shaheen:

The Coalition for Aerospace and Science (CAS) is an alliance of prominent industry, university, and science organizations united in our support for robust and sustained federal investments in the National Aeronautics and Space Administration (NASA). As a group, we believe that increasing federal support and maximizing the efficiency and effectiveness for this vital agency will help ensure our nation's scientific, industrial, and academic leadership long into the future. **As you allocate funding for Fiscal Year (FY) 2018, we urge you to build on the strong bipartisan support established in FY 2016 by providing NASA with at least \$20.48 billion for FY 2018 - a five percent increase above the amount provided by the House Appropriations Committee for FY2017.**

Strong funding, a balanced portfolio of missions and research, and policies that encourage innovative collaborations are essential to our nation's leadership in space and Earth sciences, groundbreaking technology development, and expanding the frontiers of human exploration. NASA's long history of transformative advances in science and technology have positioned the U.S. as a world leader across many fields, driving strong U.S. exports, supporting jobs, and drawing the best and brightest students to American universities. As the nation addresses new problems and challenges, robust support for NASA is critical to fostering a 21st century economy and restoring America's global scientific and technological leadership.

Our recommendation echoes that of over 500 organizations from all fifty states representing American industry, higher education, science, and engineering recognized in the landmark statement *Innovation: An American Imperative* (attached). These principles urge Congress to enact policies and investment in areas that ensure the United States remains the global innovation leader.

Every member of CAS has unique concerns and requests. However, the entire coalition is united in our support and advocacy for the NASA's critical research, missions, and programs. As NASA-wide stakeholders, we respectfully request that within the topline request, Congress take note of the following specific opportunities for progress:

HUMAN EXPLORATION AND SPACE OPERATIONS

The Coalition requests strong continued support for the **Orion Multi-Purpose Crew Vehicle and Space Launch System (SLS)** programs. For America to continue to make progress in human exploration, it is vital to ensure these programs have the resources needed to build upon the significant progress already achieved on both SLS and Orion. Consequently, for FY18, we request \$2 billion for SLS including at least \$300 million for the SLS Exploration Upper Stage, \$1.35 billion for Orion, and \$635 million for Exploration Ground Systems. These levels of funding will allow completion of these systems on a schedule that will enable the first crewed Orion mission no later than 2021. CAS recognizes that NASA is currently studying the feasibility of launching a crew around the moon on the first Orion/SLS launch, which could impact funding requirements if approved. Meeting these funding requirements is also essential to enable the type of international partnerships for human exploration that have made the International Space Station (ISS) such a success.

Additionally, CAS requests that Congress builds upon priorities outlined in the bipartisan *NASA Transition Authorization Act of 2017* (P.L. 115-10) by providing competitive funding for human factors research. This includes priorities related to the interaction of autonomous systems anticipated in future long-duration crewed missions, updated mission control design, improving the behavioral health and performance of astronauts, and other research areas outlined and executed by the agency's Human Systems Integration Division.

Regarding other parts of the **Human Exploration and Operations Directorate**, CAS recommends \$1.56 billion for the ISS, including for commercial cargo resupply. For the Commercial Crew program, which is important both to restore independent US access to the ISS and to increase the amount of science performed on it, CAS recommends \$1.74 billion. In addition, to support a new deep space habitat in preparation for future long duration missions, CAS requests \$110 million.

SCIENCE

The Coalition requests at least \$5.9 billion to fund NASA's **Science Mission Directorate**. Maintaining a balance across this portfolio is necessary to ensure the U.S. remains globally competitive in all fields of science.

The Coalition requests Congress provide ample funding in order for the **Planetary Science Division** to adhere to the priorities set by the Planetary Science Decadal Survey. We applaud Congress' past support for exploring Europa, which the scientific community has determined offers one of the most promising extraterrestrial habitable environments in the solar system. Sufficient funding is necessary to ensure the Europa Mission can meet its expected launch date in the early 2020's. Beyond the Europa mission, the Coalition supports ongoing missions on Mars and elsewhere, as well as continued funding for future Discovery and New Frontiers missions in order to meet development milestones.

CAS requests robust funding for the **Earth Science Division** to ensure continued support for key missions and programs. Missions within this division improve our understanding of Earth's complex and dynamic system. The Coalition supports the goals of Earth science missions, including: the Pre-Aerosol, Clouds, and Ocean Ecosystem (PACE); Surface Water and Ocean Topography (SWOT); Climate Absolute Radiance and Refractivity Observatory (CLARREO); Orbiting Carbon Observatory-3 (OCO-3), Deep Space Climate Observatory (DSCOVR); and a 2020 launch date for the NASA-ISRO Synthetic Aperture Radar (NISAR) missions. Among many outcomes, these missions will help us monitor oil spills, predict space weather events, and measure how bodies of water change over time.

Funding for this division supports the launch of Landsat 9 as early as 2021 and Landsat 10 in approximately 2029, as well as funding to increase the capabilities and uses of multi-spacecraft constellations of very small scientific satellites. Additionally, CAS requests Congress supports Venture Class missions and Earth Science Research and Analysis (R&A) - two key programs that fund research on universities across the United States - at \$199.6 million and \$322.6 million, respectively.

Finally, the National Academies is mid-way through the development of its second ESAS decadal survey, which will identify science priorities and the missions that will enable them through 2027. Like the Astronomy and Astrophysics Decadal Survey released in 2010, this report will be considered reflective of the scientific community's assessment of the field of Earth science and the questions that will drive new discoveries. The Coalition requests continued, robust funding for the Division in FY2018 and beyond to meet the forthcoming consensus-based objectives.

The Coalition requests \$720 million to support the **Heliophysics Division (HPD)**. This amount is vital to improve our understanding of the Sun-Earth relationship and mitigate the harmful impacts of a space weather incident. Such an event has the potential to impose catastrophic damage to the United States' electric grid and poses a threat to America's national security. For example, NASA's Advanced Composition Explorer (ACE) mission monitors solar activity that may harm sensitive space- and ground-based assets.

This requested amount will implement key community priorities outlined in the Space Weather Action Plan and 2012 Decadal Strategy for Solar and Space Physics. This includes a two-year cadence of alternating Heliophysics Small Explorer (SMEX) and Mid-sized Explorer (MIDEX) missions. A solicitation for a MIDEX mission has not been issued since FY2011, and a subsequent one is not slated for release until FY2019. The Heliophysics community was encouraged by the release of a SMEX solicitation in July 2016, but is concerned that funding shortfalls resulting from further stagnation in the Division's budget will hinder timely delivery of the mission and further jeopardize the prospects of implementing a higher cadence of these competitive missions. This amount is also needed to accommodate a necessary increase for the Solar Probe Plus mission as it enters its peak development phase without incurring a seven percent cut to other programs within the Heliophysics Division.

Robust support for the **Astrophysics Division (APD)** will allow for continued progress on the Astronomy and Astrophysics Decadal Survey priorities, which includes a launch of the Wide Field Infrared Survey Telescope (WFIRST) by 2024. This start date will allow for greater overlap with

James Webb Space Telescope, enable WFIRST to impact dark energy and exoplanet science sooner, and will save \$300 million over the mission lifetime.

The Coalition also requests \$76 million for APD's R&A account. Typically, R&A is conducted on data from satellites, probes, and telescopes that NASA builds, launches, and operates, but can also include the massive amount of information that remains after a mission is over.

For example, R&A opportunities are used to analyze data from Kepler, a telescope that searched for planets orbiting other stars. While the mission ended almost four years ago, scientists today still sift through data and continue to make new discoveries. In this way, the initial taxpayer investment continues to provide the basis for discoveries years after the mission itself has ended. Nevertheless, while NASA's overall budget has grown, APD's R&A account has remained relatively flat, especially when taking inflation into account. This funding affects thousands of researchers, including many at universities and colleges with world-renowned astronomy programs working to increase our nation's knowledge base in astronomy and astrophysics.

EDUCATION

The Coalition requests continued support for NASA education programs. NASA plays a pivotal role in encouraging young people to pursue science, technology, engineering and mathematics (STEM) disciplines. CAS requests \$45 million for the **Space Grant College and Fellowship Program** and supports a statutory cap of five percent of the allocated funds designated as administrative fees assigned to NASA. This program funds nearly 4,000 fellowships and scholarships for students in all 50 states and the District of Columbia who are pursuing a STEM career, allowing them to participate in NASA aeronautics and space projects.

TECHNOLOGY

CAS requests at least \$796 million for the **Space Technology Mission Directorate (STMD)**. Robust investments in this directorate are necessary to develop the technologies and capabilities needed to achieve current and future NASA missions.

STMD represents an important component of NASA-wide innovation and technology development, and is the primary vehicle for bringing new technologies to market. Such promising innovations include the Laser Communications Relay Demonstration program, scheduled for a test in 2020 and expected to break new ground in optical communication technology. This is NASA's next premier optical communication demonstration, with the potential to revolutionize the way we send and receive data, video and other information. Other innovations with multi-directorate implications include the demonstrations of Solar Electric Propulsion technologies vital to future deep space human and robotic exploration missions.

The requested amount will also enable the Directorate to expand the number of Space Technology Research Institutes (STRI). These institutes will complement STMD's existing individual investigator-oriented programs with larger multidisciplinary research collaborations led by universities. STRIs strengthen NASA's connection to the academic community and empower universities to advance fundamental research and technology development in areas of interest to NASA and the aerospace

community. In addition, STRIs will contribute to the nation’s future economic competitiveness by helping to develop the high-skilled workforce necessary for ensuring our continued leadership in research and development.

The Coalition remains concerned that the recent unfunded transfer of the RESTORE-L program threatens to impact the Directorate’s exciting technology development programs, including grants to engineers and researchers at many of our universities and small businesses. As such, CAS requests \$796 million for the Directorate to ensure the Directorate remains a strong technological backbone for the Agency. Within that amount, CAS requests that Congress provide a \$5 million increase to the Directorate’s Technology and Innovation Division for NASA’s successful Technology Transfer Program, which has seen a 76 percent reduction in its budget over the last ten years.

AERONAUTICS

The Coalition requests at least \$712 million for the **Aeronautics Research Mission Directorate**. This directorate provides research that is vital to the well-being of our nation’s air transportation system and the aviation industry. Additionally, the Coalition supports NASA’s efforts to safely integrate Unmanned Aircraft Systems in the national airspace, allowing us to harness the potential of this technology.

Thank you for your consideration of our funding requests. We hope you will consider CAS as a resource as you work to craft FY2018 appropriations.

Member Organizations:

Aerospace Industries Association	Purdue University
American Astronautical Society	Raytheon Company
American Astronomical Society	Soil Science Society of America
American Geophysical Union	SPIE – the international society for optics and photonics
Association of American Universities	Washington State University
Association of Public and Land-grant Universities	Woods Hole Oceanographic Institution
American Society of Agronomy	University Corporation for Atmospheric Research
Boston University	University of Arizona
Consortium for Ocean Leadership	University of Colorado – Boulder
Crop Science Society of America	University of Maryland – College Park
Geological Society of America	University of Maryland – Baltimore County
Human Factors and Ergonomics Society	University of Michigan
Lockheed Martin Corporation	University of New Hampshire
New Mexico State University	University of Washington
Northrop Grumman Corporation	University of Wisconsin – Madison
The Planetary Society	

INNOVATION: AN AMERICAN IMPERATIVE

A call to action by American industry, higher education, science, and engineering leaders urging Congress to enact policies and make investments that ensure the United States remains the global innovation leader.

Our nation knows what it takes to innovate: a sustained commitment to scientific research, a world-class workforce, and an economic climate that rewards entrepreneurship and innovation. As the most dynamic and prosperous nation in the world, the United States has long benefitted from policies and investments that have promoted innovation and in turn driven productivity and economic growth, bolstered American trade, ensured our health and national security, and safeguarded the American dream. Our leadership is now at risk because of years of under-prioritizing federal scientific research investments and policies that promote innovation.

Now is not the time to rest on past success. As noted by the American Academy of Arts and Sciences in its 2014 Report *Restoring the Foundation: The Vital Role of Research in Preserving the American Dream*, "There is a deficit between what America is investing and what it should be investing to remain competitive, not only in research but in innovation and job creation." Competitor nations are challenging our leadership by copying our playbook for success. At the same time our nation's support for scientific research and innovation is stagnating. If these trends continue, other countries will soon surpass the United States as the global innovation leader.

We must heed the warnings in the *Restoring the Foundation* report and other salient reports of the past decade and act decisively. In particular, Congress must:

Renew the federal commitment to scientific discovery

by ending sequestration's deep cuts to discretionary spending caps and providing steady and sustained real growth in funding of at least four percent for basic scientific research at: the National Science Foundation, the National Institutes of Health, the Department of Energy's Office of Science, the Department of Defense, NASA, the National Institute of Standards and Technology, USDA, and NOAA;

Make permanent a strengthened federal R&D tax credit

as a part of comprehensive tax reform to encourage more private-sector innovation investment here in America instead of in competitor countries;

Improve student achievement in science, technology, engineering, mathematics (STEM)

through increased funding of proven programs and incentives for science and math teacher recruitment and professional development;

Reform U.S. visa policy

to welcome and keep highly educated international professionals, particularly those holding STEM degrees from U.S. universities;

Take steps to streamline or eliminate costly and inefficient regulations

and practices governing federally funded research to help unburden researchers to focus more time on conducting research and training the next generation of scientists, engineers, health care professionals, and business leaders;

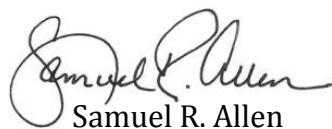
Reaffirm merit-based peer review

as the primary mechanism major federal agencies should employ in making competitive scientific research grants to ensure the most effective use of taxpayer dollars; and

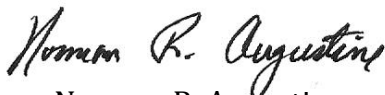
Stimulate further improvements in advanced manufacturing

through support for programs aimed at accelerating manufacturing innovation and new federal-industry-academic partnerships.

We, the signatories, urge support for these actions to keep the United States the global innovation leader. We stand ready to do our part.



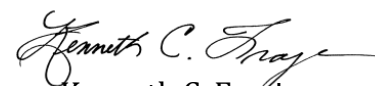
Samuel R. Allen
Chairman & CEO
John Deere



Norman R. Augustine
Co-Chair
Restoring the Foundation



Wes Bush
Chairman, President & CEO
Northrop Grumman



Kenneth C. Frazier
Chairman & CEO
Merck & Co., Inc



Marillyn A. Hewson
Chairman, President, & CEO
Lockheed Martin Corporation



Charles O. Holliday
Chairman
Royal Dutch Shell plc



Joseph Jimenez
CEO
Novartis



W. James McNerney, Jr.
Chairman of the Board & CEO
The Boeing Company



Satya Nadella
CEO
Microsoft



Jay Timmons
President & CEO
National Association of
Manufacturers

Academy of Radiology Research
 Acoustical Society of America
 Ad Hoc Group for Medical Research
 Advanced Informatics and Medical Solutions LLC
 Adv. Technical Intelligence Assn.
 Aerospace Industries Association
 Agricultural & Applied Economics Association
 Aizoon Technology Consulting
 AJES LifeSciences, LLC
 Alabama Agricultural and Mechanical University
 Alpha – 1 Biologics
 AMD
 American Academy of Arts & Sciences
 American Anthropological Association
 American Association for Dental Research
 American Association for the Advancement of Science
 American Association for the Study of Liver Diseases
 American Association of Colleges of Pharmacy
 American Association of Mycobacterial Diseases
 American Association of Petroleum Geologists
 American Association of Physical Anthropologists
 American Association of Physicists in Medicine
 American Association of Physics Teachers
 American Association of State Colleges and Universities
 American Astronomical Society
 American Chemical Society
 American Council on Education
 American Dairy Science Association
 American Dental Education Association
 American Educational Research Association
 American Geophysical Union
 American Geosciences Institute
 American Institute for Medical & Bio. Engineering
 American Institute of Aeronautics and Astronautics
 American Institute of Chemists
 American Institute of Physics
 American Mathematical Society
 American Meteorological Society
 American Physical Society
 American Physiological Society
 American Phytopathological Society
 American Political Science Association
 American Psychological Association
 American Society for Biochemistry and Molecular Biology
 American Society for Engineering Education
 American Society for Microbiology
 American Society for Nutrition
 American Society of Agronomy
 American Society of Animal Science
 American Society of Plant Biologists
 American Sociological Association
 American Veterinary Medical Association
 Ames Chamber of Commerce
 Anchorage Economic Development Corporation
 Ann Arbor/Ypsilanti Chamber of Commerce
 Applied DNA Sciences, Inc.
 Applied Materials, Inc
 Archaeological Institute of America
 Arizona Nevada Academy of Science (ANAS)
 Arizona State University
 Arkansas Research Alliance
 Arkansas State University
 ASHRAE
 ASME
 Associated Industries of Florida
 Association for Information Science and Technology
 Association for Psychological Science
 Association for Women in Mathematics
 Association for Women in Science
 Association of American Geographers
 Association of American Medical Colleges
 Association of American Universities
 Association of American Veterinary Medical Colleges
 Association of Independent Research Institutes
 Association of Public and Land-grant Universities
 Association of Research Libraries
 Association of University Technology Managers
 ASTRA, Alliance for Science & Technology Research in America
 Auburn University
 Austin Chamber of Commerce
 Avanti Biosciences
 Battelle
 Bay Area Council
 Biocogent LLC
 BioForward
 Biophysical Society
 Biotechnology Industry Organization
 Blood Cell Technologies
 Boise State University
 Bonded Energy Solutions Corporation
 Boston University
 Botanical Society of America
 Boulder Chamber of Commerce
 Brandeis University
 Brides Energy
 Brookhaven Chambers of Commerce Coalition
 Brookhaven Technology Group, Inc.
 Brown University
 Buffalo Niagara Partnership
 Buncee, LLC
 Business-Higher Education Forum
 Business & Industry Association of New Hampshire
 CA Technologies
 California Institute of Technology
 California Polytechnic State University
 California State Polytechnic University, Pomona
 California State University Maritime Academy
 The California State University System
 California State University, Channel Islands
 California State University, Chico
 California State University, Dominguez Hills
 California State University, East Bay
 California State University, Fresno
 California State University, Fullerton
 California State University, Long Beach
 California State University, Los Angeles
 California State University, Northridge
 California State University, Sacramento
 California State University, San Bernardino
 California State University, San Marcos
 Carnegie Mellon University
 Cary Institute of Ecosystem Studies
 Case Western Reserve University
 Center for Policy on Emerging Technologies
 Central National Gottesman Inc.
 Chamber of Business & Industry of Centre County
 Chemcubed
 Chem-Master International, Inc.
 Chermac Energy Corporation
 Chroma Research Labs, Inc.
 The City University of New York
 Clearpointe
 Cleveland State University
 Clemson University
 Coalition for Aerospace and Science
 Coalition for National Science Funding
 Coalition for National Security Research
 Coalition of Urban Serving Universities
 The College of William and Mary
 Colorado School of Mines
 Colorado State University
 Columbia University
 Computing Research Association
 Consortium for Ocean Leadership
 Consortium of Social Science Associations
 Cornell University
 Council of Graduate Schools
 Council of Scientific Society Presidents
 Council on Competitiveness
 Council on Governmental Relations
 Crop Science Society of America
 Delaware State University
 DII, LLC
 Duke University
 Earthquake Engineering Research Institute
 East Carolina University
 Ecological Society of America
 EDUCAUSE
 Emory University
 Energy Sciences Coalition
 Energystics, Ltd.
 Entomological Society of America
 EPICenter Memphis
 Eugene Area Chamber of Commerce
 Ewbank Geo Testing, LLC
 FASS
 Federation of American Societies for Experimental Biology
 Federation of Associations in Behavioral and Brain Sciences
 FertiLab
 Festo Didactic, Inc.
 FlightPartner Technologies, Inc.
 Florida Agricultural & Mechanical University
 Florida Atlantic Research and Development Authority
 Florida International University
 Florida State University
 Foundation for Science and Disability
 Frontier Electronic Systems Corp.
 General Capacitor, LLC
 Genetics Society of America
 Geological Society of America
 George Mason University
 Georgia Institute of Technology
 Georgia Regents University
 Georgia Research Alliance
 Georgia State University
 Ghidorah Holdings, LLC
 Google
 Graphene 3D Lab
 Greater Boston Chamber of Commerce
 Greater Des Moines Partnership
 Greater Madison Chamber of Commerce
 Greater Manchester Chamber of Commerce
 Greater Philadelphia Chamber of Commerce
 Greater Pittsburgh Chamber of Commerce
 Greater Port Jefferson Chamber of Commerce
 Greater Providence Chamber of Commerce
 Harvard University
 Hawaii Academy of Science
 Hepatitis B Foundation
 Hewlett-Packard Company
 Human Factors and Ergonomics Society
 Humboldt State University
 IBM
 iCell Gene Therapeutics
 Idaho Academy of Science and Engineering
 IEEE-USA
 ImmunoMatrix, LLC
 IMSzema Solutions
 Indiana University
 Infineon Technologies Americas Corp.
 Information Technology Industry Council (ITI)
 Innovation Associates
 Innovation New Jersey
 Institute of Food Technologists
 Intel Corporation
 International Economic Development Council
 International Society for Educational Planning
 International Society for the Systems Sciences
 International Technology and Engineering Educators Assn.
 Iontraxx LLC
 Iowa's Cultivation Corridor
 Iowa State University
 Iowa State University Research Park
 IPC - Association Connecting Electronics Industries
 iStart Valley
 Jasmine Universe, LLC
 Jefferson Science Associates LLC
 The Johns Hopkins University
 Kansas State University
 Kansas State University Institute for Commercialization
 Kent State University
 Kentucky Academy of Science
 Lambert Construction Company
 Lehigh University
 Linguistic Society of America
 Little Rock Regional Chamber of Commerce
 Long Island University
 Louisiana State University
 Louisiana Tech University
 Lowell Observatory
 Maine State Chamber of Commerce
 Massachusetts Biotechnology Council
 Massachusetts Institute of Technology
 Massachusetts Life Sciences Center
 Materials Research Society
 Mathematical Association of America
 Meritage Midstream Services
 Miami Dade College
 Miami University
 Michigan State University
 Michigan Technological University
 Micron Technology, Inc
 Microscopy Society of America
 Middle Tennessee State University
 Millennial Materials and Devices Inc.
 MindWick
 Mississippi State University
 Missouri University of Science and Technology
 MN-SBIR
 Mobileware Inc.
 modelizeIT Inc.
 Montana State University
 National Alliance for Eye and Vision Research
 National Association of Colleges and Employers
 National Association of Geoscience Teachers
 National Association of Graduate-Professional Students
 National Association of Marine Laboratories
 National Center for Science Education
 National Center for Technological Literacy- Museum of Science
 National Coalition for Food and Agricultural Research
 National Council for Science and the Environment
 National Defense Industrial Association
 National Ground Water Association
 National Science Education Leadership Association
 National Science Teachers Association
 NeoMatrix Therapeutics
 New Jersey Business and Industry Association
 New Mexico State University
 New York University
 NextThought, LLC
 North Carolina Academy of Science
 North Carolina A&T State University
 North Carolina State University
 North Dakota State University
 Northeastern University
 Northern Illinois University
 Northwestern University Feinberg School of Medicine
 Oakland University
 Ohio University
 The Ohio State University
 Oklahoma Academy of Science
 Oklahoma State University
 Oklahoma State University – College of Engineering
 ON Semiconductor
 ONAMI
 Orange County Business Council
 Oregon State University
 Pace University
 Parapsychological Association
 Penn State University
 Phillips 66
 Phiston Technologies, Inc.
 Polynova Cardiovascular Inc.
 Population Association of America
 Portland State University
 Poultry Science Association
 PPG Industries, Inc.
 Prairie View A&M University
 Principal Financial Group
 Princeton University
 Progen LifeSciences
 QB Sonic, Inc.
 Qualcomm
 RAIN Eugene
 Regional Accelerator and Innovation Network
 Rensselaer Polytechnic Institute
 Re-Nuble
 Research!America
 Rice University
 Rochester Institute of Technology
 Rutgers, the State University of New Jersey
 SAGE
 San Diego Regional EDC
 San Diego State University
 San Francisco State University
 San Jose State University
 Saniteq LLC
 SchoolSource Technologies, LLC
 Semiconductor Equipment & Materials International (SEMI)
 Semiconductor Industry Association
 Semiconductor Research Corporation
 Sigma Xi
 Silicon Valley Leadership Group

Small Business Technology Council
Smith Cybernetics, LLC
Society for In Vitro Biology
Society for Industrial and Applied Mathematics
Society for Industrial and Organizational Psychology
Society for Neuroscience
Society of the Study of Evolution
Society of Toxicology
Softheon
Soil Science Society of America
Sonoma State University
South Dakota State University
South Dakota School of Mines & Technology
Southeastern Universities Research Association
Southern Illinois University System
SPIE, the international society for optics and photonics
SRI International
SSTI
Stanford University
State University of New York
Stillwater Chamber of Commerce
Stony Brook Building Science, LLC
Stony Brook University
STS Global Inc.
Sulcrete
Sullstice
Supporters of Agricultural Research Foundation
SURA
SynchroPET
Syracuse University
TargaGenix, Inc.
Task Force on American Innovation
Teaching Institute for Excellence in STEM
Technology Association of Georgia
TechVision21
Temple University
Texas A&M University
The Texas A&M University System
Texas Instruments Incorporated
Texas State University
Texas Tech University
The Coalition for the Life Sciences
The Electrochemical Society
The Industrial Research Institute
The InterTech Group
The New England Council
The Optical Society
The Procter & Gamble Company
The Webb Group
Theragnostic Technologies Inc.
ThermoLift, Inc.
The Science Coalition
Tri-City Development Council – Tri-Cities, WA
TRITEC Real Estate Company, Inc.
Tufts University
Tulane University
University Economic Development Association
UNAVCO
Unique Technical Services LLC
United for Medical Research

Universities Research Association
University at Albany, State University of New York
University at Buffalo, State University of New York
University City Science Center
University Corporation for Atmospheric Research
University Economic Development Association
The University of Akron
The University of Alabama
The University of Alabama at Birmingham
University of Alaska
University of Alaska Fairbanks
University of Arizona
University of Arkansas
University of Arkansas at Little Rock
University of California System
University of California, Berkeley
University of California, Davis
University of California, Irvine
University of California, Los Angeles
University of California, Merced
University of California, Riverside
University of California, San Diego
University of California, San Francisco
University of California, Santa Barbara
University of California, Santa Cruz
University of Central Florida
University of Cincinnati
University of Colorado at Colorado Springs
University of Colorado Boulder
University of Colorado Denver
University of Colorado, Anschutz Medical Campus
University of Connecticut
University of Delaware
University of Florida
University of Georgia
University of Hawaii
University of Idaho
University of Illinois
University of Illinois at Chicago
University of Illinois at Urbana-Champaign
University of Iowa
University of Kansas
University of Louisville
University of Massachusetts Amherst
University of Massachusetts Boston
University of Maryland – Baltimore County
University of Maryland – Eastern Shore
University of Maryland University College
University of Memphis
University of Michigan
University of Minnesota
University of Mississippi
University of Missouri – Columbia
University of Missouri – Kansas City
University of Missouri – St. Louis
University of Missouri System
University of Montana
University of Nebraska
University of Nevada, Reno
University of New Hampshire

University of New Mexico
University of North Carolina at Chapel Hill
University of North Carolina at Charlotte
University of North Carolina at Greensboro
University of North Carolina System
University of North Carolina Wilmington (UNCW)
University of North Dakota
University of North Texas
University of Notre Dame
University of Oklahoma
University of Oregon
University of Pennsylvania
University of Pittsburgh
University of Rhode Island
University of Rochester
University of South Carolina
University of South Dakota
University of South Florida
University of Southern California
University of Tennessee
University of Tennessee, Knoxville
The University of Texas at Austin
The University of Texas System
University of Toledo
University of Vermont
University of Virginia
University of Washington
University of Wisconsin System
University of Wisconsin-Madison
University of Wisconsin-Milwaukee
University of Wyoming
University System of Maryland
Unmanned Systems Research Institute
Utah State University
Van Fleet & Associates
Vanderbilt University
Vascular Simulations LLC
Vela Therapeutics LLC
Vermeer Corporation
Virginia Commonwealth University
Virginia Polytechnic Institute and State University
Vitalex Inc.
Washington State University
Washington State University, Tri Cities
Washington University in St. Louis
Wayne State University
Weather Decision Technologies. Inc.
Weathernews Inc.
Web4Sign Corporation
West Virginia University
West Virginia State University
Western Massachusetts Economic Development Council
Western Michigan University
Wichita State University
Wisconsin Technology Council
Woods Hole Oceanographic Institution
Yale University
Zuznow

This document was issued on June 23, 2015. Additional endorsers continue to be added.
Related op-eds, resources and the most up to date list of endorsers may be found at innovationimperative.org

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