

OFFICE OF SCIENCE AND TECHNOLOGY POLICY

FOR IMMEDIATE RELEASE

February 9, 2016

FACT SHEET

President's 2017 Budget Invests in American Innovation: R&D, Innovation, and STEM Education

America's economic competitiveness and growth depend on robust investments in: research and development (R&D); innovation; and science, technology, engineering, and mathematics (STEM) education. The President's 2017 Budget invests in American science, technology, and innovation to promote sustainable economic growth and job creation, maintain a safe and sufficient food supply, improve the health of all Americans, move toward a clean energy future and a climate-smart economy, address the challenge of global climate change, manage competing demands on environmental resources, and ensure the Nation's security.

The President's 2017 Budget provides \$152 billion for R&D overall, a \$6 billion or 4 percent increase from 2016 enacted levels. Within the total R&D investment, the Budget provides \$73 billion for basic and applied research (the "R" in R&D), a \$4 billion or 6 percent increase from 2016 enacted levels. \$4 billion of the overall \$152 billion investment in R&D is new mandatory funding. This will ensure that we make adequate R&D investments to create jobs and grow the economy, even as the Budget adheres to the discretionary spending levels set by the Bipartisan Budget Act.

The Budget targets several key priorities:

- **Continuing our commitment to world-class science and research.** The Budget provides the National Science Foundation (NSF) with nearly \$8.0 billion and the Department of Energy's (DOE) Office of Science with nearly \$5.7 billion through a mix of discretionary and mandatory funding. These investments support ground-breaking research and world-leading facilities across all fields of science and engineering, including clean energy, climate science, information technology, and life science. The Budget also provides \$826 million for the National Institute of Standards and Technology (NIST) laboratories. The Budget increases total funding for these three key basic research agencies by more than \$900 million over the 2016 level.
- **Investing in innovation.** The Budget invests in innovative security capabilities. The 2017 Budget proposes \$12.5 billion for the Department of Defense's (DOD) Science & Technology program and \$3.0 billion for the Defense Advanced Research Projects Agency (DARPA). The Budget provides \$318 million for cybersecurity R&D at civilian agencies. To encourage innovation in our space capabilities, the Budget provides \$19.0 billion for NASA to support the President's vision for innovation and scientific discovery on Earth and beyond. The Budget also invests in innovation for the industries of the future, including major investments within DOE (\$285 million) and NSF (\$33 million) to support the National Strategic Computing Initiative.

- **Improving Americans' health.** The Budget provides \$33.1 billion to support biomedical research at the National Institutes of Health (NIH), an increase of \$1 billion over 2016. The Budget provides \$755 million to continue the recently-launched National Cancer Moonshot for new cancer-related research activities at both the NIH and the Food and Drug Administration. The Budget includes \$195 million for NIH's contribution to the multi-agency BRAIN Initiative. The Budget includes \$309 million for Department of Health and Human Services (HHS) agencies to sustain the Precision Medicine Initiative aimed at tailoring medical care to the individual patient.
- **Accelerating the pace of innovation in manufacturing to create jobs.** The 2017 Budget provides \$2 billion for Federal R&D directly supporting advanced manufacturing, consistent with the goals and recommendations of the National Strategic Plan for Advanced Manufacturing. The Budget funds a national network of 45 manufacturing innovation institutes that will position the United States as a global leader in advanced manufacturing technology.
- **Moving toward cleaner American energy.** The 2017 Budget provides \$7.7 billion in clean energy R&D, demonstrating a strong U.S. commitment to the Mission Innovation pledge announced at the Paris climate summit in 2015 to double Federal clean energy R&D investments over five years.
- **Taking action on climate change.** The 13-agency U.S. Global Change Research Program (USGCRP) coordinates Federal research to improve our ability to understand, assess, predict, and respond to the human-induced and natural processes of global change and their related impacts and effects. The Budget includes \$2.8 billion for USGCRP; USGCRP outcomes support the Administration's Climate Action Plan.
- **Growing agriculture research for future generations.** The Budget recognizes the importance of science and technology to meet the challenges and opportunities in agriculture and provides significant investment increases. The Budget funds competitive research grants through the Department of Agriculture's Agriculture and Food Research Initiative at \$700 million, double the funding provided in FY 2016.
- **Preparing students with STEM skills.** Guided by the Federal STEM Education Five-Year Strategic Plan, the Budget invests \$3.0 billion in STEM education programs, maintaining the 2016 enacted funding level. The Budget funds the President's Computer Science for All initiative to give all students across the country the chance to learn computer science in school with \$4 billion in funding for states and \$100 million directly for districts.
- **Supporting private-sector R&D.** The Budget would simplify and expand the Research and Experimentation (R&E) Tax Credit, an important Federal incentive for private-sector R&D that was made permanent in December 2015.

Additional details about the 2017 Budget proposals for R&D, innovation, and STEM education can be found on fact sheets and other resources at <http://www.whitehouse.gov/ostp/rdbudgets>. For more information on OSTP, visit <http://www.whitehouse.gov/ostp>.

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