

OFFICE OF SCIENCE AND TECHNOLOGY POLICY

FOR IMMEDIATE RELEASE

February 2, 2015

FACT SHEET

President's 2016 Budget Invests in America's Future: R&D, Innovation, and STEM Education

America's economic competitiveness and growth—including in domestic manufacturing—depend on robust investments in: research and development (R&D); innovation; and science, technology, engineering, and mathematics (STEM) education. Federal funding in these domains has, to date, catalyzed the development of new products, capabilities, and industries; spurred the creation of high-skill, high-wage jobs; and led to an astounding array of insights and services that benefit all Americans.

Science, technology, and innovation resulting from these investments help unlock opportunities in key areas of societal importance: creating jobs; improving the health of all Americans; enhancing access to clean energy, water, and food; addressing global climate change; managing competing demands on environmental resources; and ensuring the security of the Nation.

The President's 2016 Budget provides \$146 billion for R&D overall, an \$8 billion or 6 percent increase from 2015 enacted levels. The Budget targets resources to areas most likely to directly contribute to the creation of transformational knowledge and technologies that can benefit society and create the businesses and jobs of the future. The Budget also provides \$67 billion for basic and applied research (the "R" in R&D), a \$2 billion or 3 percent increase from 2015 enacted levels.

The Budget targets several key priorities:

- **Continuing our commitment to world-class science and research.** To continue the cutting-edge R&D that is essential to U.S. innovation and economic competitiveness, the Budget provides the Department of Energy's (DOE) Office of Science with over \$5.3 billion and the National Science Foundation (NSF) with over \$7.7 billion. The Budget also provides \$755 million for the National Institute of Standards and Technology (NIST) laboratories. The Budget increases total funding for these three key basic research agencies by \$0.7 billion over the 2015 level to \$13.8 billion.
- **Investing in innovation.** The Budget invests in innovative security capabilities. The 2016 Budget proposes \$12.3 billion for the Department of Defense's (DOD) Science & Technology program. The Budget also maintains DOD's critical role in fostering breakthrough approaches for discovering promising technologies with \$3.0 billion for the Defense Advanced Research Projects Agency (DARPA). To encourage innovation in our space capabilities, the Budget provides \$18.5 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 \$1.5 billion for the multi-agency National Nanotechnology Initiative.
- **Improving Americans' health.** The Budget provides \$31.3 billion to support biomedical research at the National Institutes of Health (NIH), an increase of \$1 billion over 2015 enacted. The Budget provides increased resources for Alzheimer's, cancer and other diseases that affect millions of Americans and includes \$135 million for NIH's contribution to the multi-agency BRAIN Initiative that

is helping to revolutionize our understanding of the human brain. The Budget also supports a \$1.2 billion government-wide investment by Department of Health and Human Services (HHS) agencies, DOD, the Department of Veterans Affairs (VA), and the U.S. Department of Agriculture (USDA) on combating antibiotic-resistant bacteria. The Budget also includes \$215 million at three HHS agencies (NIH, FDA, and ONC) to launch a Precision Medicine initiative that will accelerate our ability to develop prevention, diagnostic, and treatment approaches tailored to individual patients.

- **Making America a magnet for jobs.** In the area of manufacturing, the Budget will support the development and scaling of new advanced manufacturing technologies, helping smaller manufacturers adopt new technologies to increase their competitiveness, and accelerating the transfer of new technologies from Federal labs to industry. The 2016 Budget provides \$2.4 billion for Federal R&D directly supporting advanced manufacturing at NSF, DOD, DOE, the Department of Commerce (DOC), and other agencies, 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.
- **Investing in homegrown clean energy.** The Budget provides approximately \$7.4 billion for clean energy technology programs government-wide to accelerate the transition to a clean energy economy and position the United States as the world leader in the energy industries of the 21st Century. In DOE, the 2016 Budget provides \$2.7 billion for the Office of Energy Efficiency and Renewable Energy (EERE) to accelerate research and development, build on ongoing successes, increase the use of critical clean energy technologies, and further reduce costs. The Budget includes \$325 million for the Advanced Research Projects Agency–Energy (ARPA-E), a program that seeks to fund transformative energy research.
- **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 approximately \$2.7 billion for USGCRP; USGCRP outcomes support the Administration's Climate Action Plan.
- **Preparing students with STEM skills.** Our Nation's competitiveness depends on our ability to improve and expand STEM learning in the United States. Guided by the Federal STEM Education Five-Year Strategic Plan and a significant reorganization of programs, agencies are increasing coordination, strengthening partnerships, and identifying ways to leverage existing resources to improve the reach of agency assets. The Budget invests more than \$3 billion in STEM education programs, an increase of 3.6 percent over the 2015 enacted level.
- **Supporting private-sector R&D.** The Budget would reform and make permanent the Research and Experimentation (R&E) Tax Credit, an important Federal incentive for private-sector R&D.

Additional details about the 2016 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>.

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