



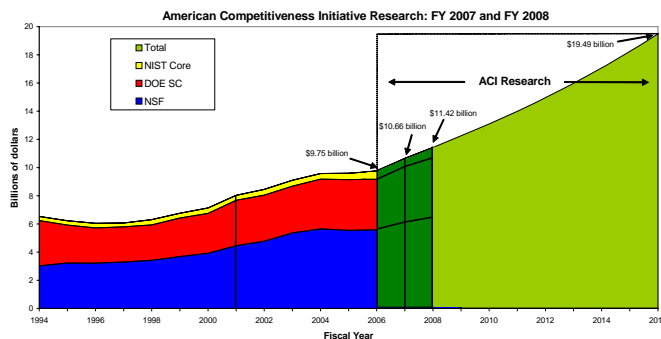
AMERICAN COMPETITIVENESS INITIATIVE *Research and Development Funding in the President's 2008 Budget*

The President's 2008 Budget maintains a strong commitment, through the American Competitiveness Initiative (ACI), to prioritize basic research in areas that advance knowledge and technologies used by scientists in nearly every field. As a centerpiece of ACI, the President plans to double, over 10 years, investment in innovation-enabling research at three Federal agencies—the National Science Foundation (NSF), the Department of Energy's Office of Science (DoE SC), and the Department of Commerce's National Institute of Standards and Technology laboratories (NIST). In FY 2008, the second year of the ACI, President Bush proposes \$11.42 billion total for NSF, DOE SC, and NIST, an overall funding increase of \$764 million, or 7.2 percent, above his 2007 ACI Research Budget of \$10.66 billion. As overall annual increases will need to average roughly seven percent, the President asserts and reinforces his commitment to research doubling with this Budget.

National Science Foundation is the primary source of support for academic research in the physical sciences, funding basic research in areas such as nanotechnology, advanced networking and information technology, physics, chemistry, materials science, mathematics, and engineering. It also is well regarded for funding nearly all of its research through a competitive, peer-reviewed process. The increase in NSF funding will support many more researchers, students, post-doctoral fellows and technicians contributing to the innovation enterprise.

The **Department of Energy's Office of Science** supports grants and infrastructure for a wide range of basic research related to economically significant innovations including nanotechnology, biotechnology, high-end computing and advanced networking, and energy technologies. The 2008 Budget increases funding for both research and cutting edge facilities in these critical mission areas, such as an expansion in the number of nanoscale science and bio-energy research centers, expanded supercomputing facilities and related research, and design or construction activities for world-leading next-generation materials research facilities.

The **Department of Commerce's National Institute of Standards and Technology** invests in technological innovation through research and standards development. These investments will improve nanotechnology manufacturing capabilities; expand NIST's neutron investigation facility to aid in characterizing novel materials in high-growth research fields; construct new, top-performance laboratories at NIST's Boulder, Colorado facility; and improve our understanding of quantum information science that has the potential to dramatically improve computer processing speeds and enable more secure communications.



	FY 2006 Enacted	FY 2007 ACI Request	FY 2008 ACI Request		
	(billions of dollars)	(billions of dollars)	(billions of dollars)	% Increase Over FY07	% Increase Over FY06
NSF	\$5.58	\$6.02	\$6.43	6.8	15.2
DoE SC¹	\$3.60	\$4.10	\$4.40	7.2	22.3
NIST Core²	\$0.57 ³	\$0.54	\$0.59	10.5	3.7 ⁴
TOTAL	\$9.75	\$10.66	11.42	7.2	17.1

¹ DoE SC—DoE Office of Science

² NIST core consists of NIST lab research and construction accounts.

³ The 2006 enacted level for NIST core includes \$137 million in one-time earmarks.

⁴ Represents a 36 percent increase after accounting for earmarks.