



NATIONAL NANOTECHNOLOGY INITIATIVE
Research and Development Funding in the President's 2007 Budget

The President's 2007 Budget provides over \$1.2 billion for the multi-agency National Nanotechnology Initiative (NNI), bringing the total investment since the NNI was established in 2001 to over \$6.5 billion and nearly tripling the annual investment of the first year of the Initiative. This sustained investment is advancing our understanding of the unique phenomena and processes that occur at the nanometer scale and expedites the responsible use of this knowledge to achieve advances in medicine, manufacturing, high-performance materials, information technology, and energy and environmental technologies.

The NNI supports fundamental and applied research on nanotechnology by funding cutting-edge research, creating multidisciplinary centers of excellence, and developing key research infrastructure. It also supports activities aimed at addressing the societal implications of nanotechnology, including ethical, legal, human and environmental health, and workforce related issues.

Critical, broad-ranging investments continue to be made by NSF, reflecting the agency's mission in supporting fundamental research across all disciplines of science and engineering, whereas the DoD investment emphasizes development of materials, devices, and systems that address the department's mission. DOE is in the process of completing five Nanoscale Science Research Centers that will make research equipment and infrastructure available to researchers from across the scientific research community. The 2007 request by HHS includes programs at NIH emphasizing nanotechnology-based biomedical advances occurring at the intersection of biology and the physical sciences and at the National Institute of Occupational Safety and Health (NIOSH) that address implications and applications of nanotechnology for health and safety in the workplace. The 2006 estimate and 2007 request include, for the first time, contributions from the DOE Office of Fossil Energy and the USDA Forest Service.

National Nanotechnology Initiative (dollars in millions)

	2001 Actual	2006 Estimate	2007 Proposed	Dollar Change 2001 to 2007	% Change 2001 to 2007
National Science Foundation	150	344	373	223	149%
Defense	125	436	345	220	176%
Energy*	88	207	258	170	193%
Health & Human Services *	40	175	173	133	333%
Commerce (NIST)	33	76	86	53	161%
NASA	22	50	25	3	14%
EPA	5	5	9	4	80%
Agriculture *	0	5	5	5	N/A
Homeland Security	0	2	2	2	N/A
Justice	1	1	1	0	0.0%
TOTAL	464	1,301[†]	1,277	813	175%

* 2006 and 2007 funding levels for: DOE includes Basic Energy Sciences and Fossil Energy; HHS includes NIH and NIOSH funding; and USDA includes CSREES and Forest Service.

† 2006 estimate includes Congressional earmarks that are outside the NNI plan totaling over \$100 million at DOD and over \$10 million at NASA.

In addition to supporting the development of nanotechnology for beneficial uses, the NNI funds research on the human and environmental health implications of nanotechnology and methods for managing potential risks. The funding within EPA will almost double in 2007 and additional efforts in this area are funded by NSF, HHS, NIST, DoD, and USDA.

In response to recommendations by the President's Council of Advisors on Science and Technology (PCAST) in its May 2005 report assessing the NNI, the Departments of Labor and Education have become participants in the interagency group that manages the NNI, thereby facilitating progress toward the education and workforce goals of the Initiative.

Additional information about the NNI is available at www.nano.gov.