

## **2009 FEDERAL R&D BUDGET HIGHLIGHTS**

- In President Bush's 2009 Budget, total Federal R&D is \$147 billion, a record in real terms and an increase of \$3.9 billion (three percent) over FY 2008. This represents a 61% increase compared to 2001's \$91.3 billion.
- With this Budget, Federal R&D investment under this Administration will total over \$1 trillion, 42% more inflation-adjusted investment than the previous eight years.
- Non-defense R&D increases six percent in the 2009 Budget over FY 2008, compared to less than one percent for overall non-security discretionary spending.
- With the 2009 Budget, real growth in outlays for the conduct of non-defense R&D is up over 31% under this Administration, compared to less than 11% for the previous eight years.
- Non-defense R&D outlays are estimated to be 10.6% of total non-defense discretionary spending in 2009, compared to 10.5% in 2008 and 10.5% in 2001.
- Funding for basic research is \$29.3 billion in 2009, up from \$21.3 billion in 2001 – a 37% increase.
- Reinforcing the President's commitment to the American Competitiveness Initiative, which seeks to double investment in key civilian Federal science agencies (NSF, DoE Office of Science, NIST core) that support basic research in the physical sciences and engineering, the 2009 Budget calls for \$12.2 billion total, an overall funding increase of \$1.6 billion, or 15%.
- NSF is increased 13.6% (+\$822 million) to \$6.85 billion in 2009 and by 55% since 2001.
- DoE's Office of Science is increased 18.8% (+\$749 million) to \$4.72 billion in 2009 and by 48% since 2001.
- National Institute of Standards and Technology (NIST) "core" intramural research and facilities are increased 21.5% (+\$112 million) after

accounting for earmarks and unrequested grants to \$634 million in 2009 and by 83% since 2001.

- The President's 2009 Budget includes \$1.7 billion for DoD basic research, \$270 million more than requested in FY 2008 and 34% more than 2001.
- At more than \$3.5 billion in the President's 2009 Budget - double the 2001 investment - the cumulative effort in Networking and Information Technology R&D goes over the \$19.5 billion mark during the eight years of this Administration.
- Since FY 2001, nanotechnology R&D has more than tripled to over \$1.5 billion in 2009. The cumulative eight-year investment in the National Nanotechnology Initiative is nearly \$10 billion.
- The 2009 Budget includes \$3.2 billion for the Advanced Energy Initiative, a 25% increase over 2008 enacted level and \$1.4 billion more than the 2006 investment.
- At \$29.3 billion in 2009, NIH is \$8.9 billion or 43% higher than in 2001. NIH investment under this Administration totals \$222 billion, 66% more real investment in life science research than the previous eight years.
- 2009 funding for NASA is increased 2.9% overall from 2008. This includes \$4.44 billion for earth and space science, which is 17% more than in 2001.
- President Bush's 2009 Budget provides \$103 million and a total of \$910 million over five years for a series of NASA Earth observing missions that the National Research Council's recent "decadal survey" ranked as the top priorities for Earth sciences.
- The Climate Change Science Program (CCSP) exceeds \$2 billion in the 2009 Budget (12% more than FY 2008) for an eight-year total exceeding \$14.6 billion.