Research and Development Budget

Investments for the Twenty-First Century

Budget of the United States Government
Fiscal Year 2001

FISCAL YEAR 2001 RESEARCH AND DEVELOPMENT BUDGET:

FY 2001 is the eighth year in a row that the President has proposed increased investments in civilian research and development. The civilian R&D request is $43.3 billion, an increase of 6% ($2.5 billion) over FY 2000. The civilian R&D request now constitutes 51% of the overall R&D budget of $85.3 billion.

The FY 2001 budget boosts funding for basic research to $20.3 billion, an increase of 7% ($1.3 billion) over FY 2000. The budget also strengthens university-based research, which increases by 8% ($1.3 billion) over FY 2000. Substantial increases for several agencies help to restore balance between biomedical research and other scientific disciplines.

Science & Technology Initiative

The budget request includes a $2.9 billion Science and Technology Initiative directed towards national goals such as world leadership in science and technology and long-term economic growth and prosperity. This S&T Initiative is contained within the 21st Century Research Fund, which ensures effective integration of our science and technology investments. The Research Fund grows by 7% in FY 2001, to a total of $42.9 billion.

Highlights of the R&D Budget

The proposed R&D investments will enable the S&T agencies to achieve the President's goals for science and technology: promote long-term economic growth that creates high-wage jobs; sustain a healthy, educated citizenry; harness information technology; improve environmental quality; enhance national security and global stability; and maintain world leadership in science, engineering, and mathematics. For example:

- **National Institutes of Health (NIH).** The budget provides a $1 billion increase (6%) in biomedical research at the NIH that will support research in areas such as diabetes, brain disorders, cancer, genetic medicine, disease prevention strategies, and development of an AIDS vaccine.

- **National Science Foundation (NSF).** The budget provides a $675 million increase (17%) in the National Science Foundation – double the largest dollar increase in NSF's history. This increase will boost university-based research and ensure balanced support for all science and engineering disciplines. NSF funds half of all non-health related university-based research.

- **Department of Energy (DOE).** The budget provides $4.2 billion (a 15% increase) for DOE's programs in the 21st Century Research Fund. The budget includes a 13% increase for basic science programs as well as continued support for construction and operation of large scientific user facilities, including the Spallation Neutron Source.

- **Department of Defense (DOD).** The budget provides $1.2 billion in basic research (a 4.3% increase), and $3.1 billion in applied research. Research on counter-terrorism and on improvements in the safety and security of the Nation's physical infrastructure and information and communications systems receive targeted increases.

- **National Aeronautics and Space Administration (NASA).** The budget provides $5.2 billion (a 6% increase) for NASA's programs in the 21st Century Research Fund, including $2.4 billion for Space Science (a 9.4% increase), and $290 million (a 48% increase) for a $4.5 billion five-year space launch initiative.

- **Department of Commerce (DOC).** The budget includes $862 million for DOC programs in the 21st Century Research Fund. It provides $176 million (a 23% increase) for NIST's Advanced Technology Program to promote competitive, cost-shared R&D partnerships, and $50 million to create an Institute for Information Infrastructure Protection.

- **Department of Agriculture (USDA).** The budget provides $894 million (an 8% increase) for the Agricultural Research Service. The budget also includes $469 million for research and education activities through the Cooperative State Research, Education and Extension Service, including $150 million (a 26% increase) for the National Research Initiative (NRI). The NRI provides competitive grants in areas of national concern such as food safety, the environment, plant and animal research, and human nutrition.

- **Department of Transportation (DOT).** The budget provides $899 million (a 39% increase) for DOT's programs in the 21st Century Research Fund. The budget includes $338 million for the Intelligent Transportation System initiative aimed at enhancing the safety and efficiency of surface transportation infrastructure.

- **Department of the Interior (DOI).** The budget provides $895 million (a 10% increase) to USGS for science that supports natural resource and environmental decision-making. The budget also supports research and technical assistance on the scientific needs of land managers and local land use planners.

- **Environmental Protection Agency (EPA).** The budget provides $758 million (a 14% increase) for EPA's programs in the 21st Century Research Fund. The EPA budget funds research that provides a sound scientific and technical foundation for environmental policy and regulatory decision-making.

- **Department of Education (DOEd).** The budget provides $379 million (a 19% increase) for Ed's programs in the 21st Century Research Fund. The budget provides $20 million to support a collaborative research effort with NSF and NICHD on large-scale, interdisciplinary research focused on understanding how promising practices and research on how children learn can be scaled up and applied in complex and diverse classroom settings.

Interagency Initiatives

The budget increases funding for a number of priority research areas that require multi-agency efforts. High priority interagency programs identified by the National Science and Technology Council for special emphasis in FY 2001 received the following increases:

	1999 Actual	2000 Estimate	2001 Proposed	Dollar Change: 2000 to 2001	Percent Change: 2000 to 2001
National Science and Technology Council Initiatives:					
National Nanotechnology Initiative	247	270	495	+225	+83%
Information Technology R&D	1,301	1,721	2,315	+594	+35%
Information Technology Initiative (IT^2)	0	309	823	+514	+166%
Next Generation Internet	105	86	89	+3	+3%
Clean Energy: Biobased Products and Bioenergy	185	196	289	+93	+47%
Climate Change Technology Initiative	1,021	1,099	1,432	+333	+30%
Partnership for a New Generation of Vehicles	235	226	255	+29	+13%
Integrated Science for Ecosystem Challenges	630	657	747	+90	+14%
U.S. Global Change Research Program	1,657	1,701	1,740	+39	+2%
Interagency Education Research Initiative	30	38	50	+12	+32%
Critical Infrastructure Protection R&D	450	461	606	+145	+31%
Weapons of Mass Destruction Preparedness R&D	320	534	590	+56	+10%