

TABLE 18. Federal research and development and R&D plant budget authority for general science and basic research (251): FY 2007–09
(Millions of dollars)

Agency	2007 actual	2008 preliminary	2009 proposed	2008–09 (% change)
Total	8,712	8,744	10,225	16.9
Department of Energy (DOE)	3,560	3,574	4,314	20.7
Advanced scientific computing research	276	351	369	5.0
Basic energy sciences	1,221	1,270	1,568	23.5
Biological and environmental research	480	544	569	4.4
Human genome research	70	73	70	-3.8
All other biological and environmental research	410	472	499	5.7
Fusion energy sciences	312	287	493	72.1
High energy physics	732	689	805	16.8
Nuclear physics	412	433	510	17.9
Small business innovation research ^a	126	0	0	na
National Science Foundation (NSF)	4,440	4,479	5,175	15.5
Biological sciences	609	612	675	10.3
Computer and information science and engineering	527	535	639	19.5
Education and human resources	56	59	66	11.9
Engineering	630	637	759	19.2
Geosciences	746	753	849	12.8
Integrative activities	220	232	276	18.8
Major research equipment and facilities	191	206	148	-28.2
Mathematical and physical sciences	1,151	1,167	1,403	20.2
Office of cyberinfrastructure	182	185	220	18.8
Social, behavioral, and economic sciences	215	215	233	8.5
U.S. polar research programs	438	443	491	10.9
Budget authority adjustment ^b	-524	-564	-584	na
Department of Homeland Security (DHS) ^c	712	692	737	6.5

na = not applicable.

^a DOE treats this activity as a budget execution program (i.e., funds are collected from existing appropriations and are not allocated until three-quarters into the fiscal year).

^b Budget authority adjustment subtracts costs for research facilities, major equipment support, and other non-R&D from total NSF budget authority.

^c In FY 2007 DHS changed its R&D portfolio to reclassify funding in defense and most administration of justice as general science and basic research.

NOTES: Detail may not add to total because of rounding. Percent change derived from unrounded data. Not all federally sponsored basic research is categorized in subfunction 251.

SOURCES: Agencies' submission to Office of Management and Budget, Circular No. A-11, Max Schedule C; budget justification documents; and supplemental data from agencies' budget offices.