

Analysis of President's Budget Request for FY 12 Compared to Past Years and Current FY 2012 House and Senate Appropriations to Date as of October 27, 2011 (\$millions) Key SPIE-Focus Science Agency R&D Program Spending (source: AAAS)

FY 2012 Congressional Action on R&D by Agency
(budget authority in millions of dollars)

	FY 2011 Estimate	FY 2012 Request	FY 2012 House	Change Request		Change FY 11-12		FY 2012 Senate	Change Request		Change FY 11-12	
				Amount	Percent	Amount	Percent		Amount	Percent	Amount	Percent
TOTAL R&D (Conduct of R&D and R&D Facilities)												
Defense (military)	77,987	77,753	75,978	-1,775	-2.3%	-2,009	-2.6%	74,001	-3,752	-4.8%	-3,986	-5.1%
<i>S&T (6.1-6.3, incl. medical)</i>	12,298	12,347	12,132	-215	-1.7%	-166	-1.4%	12,094	-253	-2.0%	-204	-1.7%
<i>All Other DOD R&D</i>	65,689	65,407	63,846	-1,560	-2.4%	-1,843	-2.8%	61,908	-3,499	-5.3%	-3,782	-5.8%
Health and Human Services	31,860	32,367	32,233	-133	-0.4%	374	1.2%	31,148	-1,219	-3.8%	-712	-2.2%
<i>National Institutes of Health</i>	<i>30,163</i>	<i>31,198</i>	31,198	0	0.0%	1,035	3.4%	29,979	-1,219	-3.9%	-184	-0.6%
<i>All Other HHS R&D</i>	<i>1,697</i>	<i>1,169</i>	1,036	-133	-11.4%	-662	-39.0%	1,170	1	0.0%	-528	-31.1%
Energy	10,235	12,989	10,428	-2,561	-19.7%	194	1.9%	10,821	-2,168	-16.7%	587	5.7%
<i>Atomic Energy Defense</i>	<i>3,909</i>	<i>4,522</i>	4,141	-381	-8.4%	232	5.9%	4,272	-250	-5.5%	363	9.3%
<i>Office of Science</i>	4,250	4,940	4,378	-562	-11.4%	128	3.0%	4,417	-523	-10.6%	167	3.9%
<i>Energy Programs</i>	<i>2,075</i>	<i>3,527</i>	1,909	-1,618	-45.9%	-166	-8.0%	2,132	-1,395	-39.5%	57	2.8%
NASA	9,867	9,821	8,460	-1,361	-13.9%	-1,407	-14.3%	9,277	-544	-5.5%	-591	-6.0%
National Science Foundation	5,372	6,097	5,367	-730	-12.0%	-5	-0.1%	5,232	-865	-14.2%	-140	-2.6%
Agriculture	2,107	2,343	1,976	-367	-15.7%	-131	-6.2%	1,928	-415	-17.7%	-179	-8.5%
Commerce	1,247	1,730	1,333	-397	-22.9%	86	6.9%	1,408	-322	-18.6%	161	12.9%
<i>NOAA</i>	<i>648</i>	<i>736</i>	508	-228	-31.0%	-139	-21.5%	720	-17	-2.3%	72	11.1%
<i>NIST</i>	531	874	634	-240	-27.4%	103	19.4%	623	-251	-28.7%	92	17.3%
Transportation	1,011	1,212	1,092	-120	-9.9%	81	8.0%	1,036	-176	-14.5%	25	2.4%
Homeland Security	573	1,054	416	-638	-60.5%	-157	-27.3%	690	-364	-34.5%	118	20.5%
Veterans Affairs 1/	1,162	1,018	1,162	144	14.2%	0	0.0%	1,162	144	14.2%	0	0.0%
Interior	758	774	799	25	3.3%	40	5.3%	758	-15	-2.0%	0	0.0%
<i>US Geological Survey</i>	<i>640</i>	<i>607</i>	675	68	11.2%	35	5.5%	640	33	5.4%	0	0.0%
Environ Protection Agency	558	584	535	-49	-8.4%	-22	-4.0%	558	-27	-4.6%	0	0.0%
Education 1/	335	480	335	-145	-30.3%	0	0.0%	335	-145	-30.3%	0	0.0%
Smithsonian	226	212	226	14	6.4%	0	0.0%	226	14	6.4%	0	0.0%
All Other 1/	574	650	574	-76	-11.7%	0	0.0%	574	-76	-11.7%	0	0.0%
Total R&D	143,871	149,084	140,915	-8,169	-5.5%	-2,956	-2.1%	139,154	-9,930	-6.7%	-4,717	-3.3%
Defense R&D	81,897	82,275	80,119	-2,156	-2.6%	-1,777	-2.2%	78,274	-4,002	-4.9%	-3,623	-4.4%
Nondefense R&D	61,974	66,809	60,796	-6,013	-9.0%	-1,179	-1.9%	60,881	-5,928	-8.9%	-1,094	-1.8%
By Character												
Basic Research	29,128	32,576	31,077	-1,498	-4.6%	1,949	6.7%	30,619	-1,957	-6.0%	1,491	5.1%
Applied Research	31,226	34,277	32,213	-2,064	-6.0%	987	3.2%	32,094	-2,183	-6.4%	868	2.8%
Development	79,208	79,532	75,353	-4,179	-5.3%	-3,855	-4.9%	74,206	-5,326	-6.7%	-5,002	-6.3%
Facilities and Equipment	4,309	2,700	2,272	-428	-15.8%	-2,037	-47.3%	2,235	-464	-17.2%	-2,073	-48.1%

Source: OMB R&D data, *Budget of the United States Government FY 2012*, agency budget documents, and appropriations bills and reports.

All figures are rounded to the nearest million. Changes calculated from unrounded figures.

1/ FY 2011 R&D investment levels used for FY 2012 House and Senate projections.