

**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION**

**SCIENCE, AERONAUTICS AND TECHNOLOGY**

**FISCAL YEAR 2001 ESTIMATES**

**GENERAL STATEMENT**

**GOAL STATEMENT**

The Science, Aeronautics and Technology appropriation provides funding for the research and development activities of NASA. This includes funds to extend our knowledge of the Earth, its space environment, and the universe; and to invest in new aero-space transportation technologies that support the development and application of technologies critical to the economic, scientific and technical competitiveness of the United States.

**STRATEGY FOR ACHIEVING GOALS**

Funding included in the Science, Aeronautics and Technology appropriation supports the program elements of NASA's four Enterprises:

Human Exploration of Space - uses the microgravity environment of space to conduct basic and applied research to understand the effect of gravity on living systems and to conduct research in the areas of fluid physics, materials science and biotechnology.

Space Science - seeks to answer fundamental questions concerning the galaxy and the universe; the connection between the Sun, Earth and heliosphere; the origin and evolution of planetary systems; and, the origin and distribution of life in the universe.

Earth Science - to understand the total Earth system and the effects of natural and human-induced changes on the global environment.

Aero-Space Technology - to pioneer high-payoff, critical technologies with effective transfer of design tools and technology products to industry and government.

Funding is also included to provide highly reliable, cost effective telecommunications services in support of NASA's science and aeronautics programs, and to conduct NASA's agency-wide university, minority university, and elementary and secondary school programs.

**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION**

**SCIENCE, AERONAUTICS AND TECHNOLOGY**

**FISCAL YEAR 2001 ESTIMATES  
(IN MILLIONS OF REAL YEAR DOLLARS)**

	<b><u>BUDGET PLAN</u></b>		
	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
	<u>OPLAN</u>	<u>OPLAN</u>	<u>PRES</u>
	<u>12/23/99</u>	<u>REVISED</u>	<u>BUDGET</u>
<b>SCIENCE, AERONAUTICS AND TECHNOLOGY</b>	<b>5,653.9</b>	<b>5,580.9</b>	<b>5,928.4</b>
SPACE SCIENCE	2,119.2	2,192.8	2,398.8
LIFE AND MICROGRAVITY SCIENCES AND APPLICATIONS	263.5	274.7	302.4
EARTH SCIENCE	1,413.8	1,443.4	1,405.8
AERO-SPACE TECHNOLOGY	1,198.5	984.9	1,058.0
COMMERICAL TECHNOLOGY	140.3	140.0	135.0
MISSION COMMUNICATION SERVICES	380.0	406.3	-
SPACE OPERATIONS	-	-	529.4
ACADEMIC PROGRAMS	138.5	138.8	100.0

**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION**

**PROPOSED APPROPRIATION LANGUAGE**

SCIENCE, AERONAUTICS AND TECHNOLOGY

For necessary expenses, not otherwise provided for, in the conduct and support of science, aeronautics and technology research and development activities, including research, development, operations, and services; maintenance; construction of facilities including repair, rehabilitation, and modification of real and personal property, and acquisition or condemnation of real property, as authorized by law; space flight, spacecraft control and communications activities including operations, production, and services; and purchase, lease, charter, maintenance and operation of mission and administrative aircraft, [\$5,580,900,000] \$5,929,400,000, to remain available until September 30, [2000] 2001. *(Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations Acts, 1999.)*

**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION**

**SCIENCE, AERONAUTICS AND TECHNOLOGY**

**REIMBURSABLE SUMMARY  
(IN MILLIONS OF REAL YEAR DOLLARS)**

	<b><u>BUDGET PLAN</u></b>		
	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
<b>SCIENCE, AERONAUTICS AND TECHNOLOGY</b>	<b>574.4</b>	<b>605.5</b>	<b>609.1</b>
SPACE SCIENCE	52.5	74.0	55.3
LIFE AND MICROGRAVITY SCIENCES AND APPLICATIONS	0.5	1.5	0.5
EARTH SCIENCE	442.1	425.6	399.7
AERO-SPACE TECHNOLOGY	63.3	72.6	66.0
COMMERICAL TECHNOLOGY	8.2	9.6	9.4
MISSION COMMUNICATION SERVICES	7.7	22.1	--
SPACE OPERATIONS	--	--	78.2
ACADEMIC PROGRAMS	0.1	0.1	-

**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION**

**FISCAL YEAR 2001 ESTIMATES**

**DISTRIBUTION OF SCIENCE, AERONAUTICS, AND TECHNOLOGY BY INSTALLATION  
(Thousands of Dollars)**

Program	Total	Johnson Space Center	Kennedy Space Center	Marshall Space Flight Center	Stennis Space Center	Ames Research Center	Dryden Flight Research Center	Langley Research Center	Glenn Research Center	
Space Science	1999	2,119,200	19,858	201,321	181,230	0	105,343	30	19,935	27,379
	2000	2,192,785	16,466	145,193	147,346	35	103,556	75	12,118	24,323
	2001	2,398,800	25,442	185,568	126,137	35	117,619	75	18,524	22,504
Life and Microgravity Sciences and Applications	1999	263,500	76,999	5,808	63,613	0	34,099	0	429	38,891
	2000	274,721	94,458	5,465	53,163	0	32,651	0	52	39,377
	2001	302,400	124,109	4,559	61,387	0	36,185	0	35	37,348
Earth Science	1999	1,413,800	5,520	65,584	30,141	39,491	15,868	16,432	74,073	0
	2000	1,443,425	5,005	73,044	35,550	32,845	17,394	20,500	87,047	0
	2001	1,405,800	4,595	88,005	37,593	36,290	15,559	20,450	101,667	0
Aero-Space Technology	1999	1,198,548	5,492	1,779	317,429	22,774	205,818	86,581	280,983	221,599
	2000	984,849	2,025	4,446	191,745	29,658	197,034	98,521	198,913	186,187
	2001	1,058,000	5,667	10,555	236,574	10,760	211,477	99,224	237,734	194,870
Commercial Technology Programs	1999	140,352	14,725	7,398	20,075	3,638	11,994	3,619	17,413	23,321
	2000	140,005	15,473	6,111	20,874	3,704	13,329	3,659	17,167	23,953
	2001	135,000	14,393	5,466	20,536	4,986	13,238	4,941	16,087	21,129
Total Aero-Space Technology	1999	1,338,900	20,217	9,177	337,504	26,412	217,812	90,200	298,396	244,920
	2000	1,124,854	17,498	10,557	212,619	33,362	210,363	102,180	216,080	210,140
	2001	1,193,000	20,060	16,021	257,110	15,746	224,715	104,165	253,821	215,999
Mission Communication Services	1999	380,000	119,700	0	300	0	0	12,600	0	10,100
	2000	406,300	171,900	1,100	1,400	0	0	12,800	0	10,100
	2001	0	0	0	0	0	0	0	0	0
Space Operations	1999	0	0	0	0	0	0	0	0	0
	2000	0	0	0	0	0	0	0	0	0
	2001	529,400	222,300	41,700	11,900	0	0	12,600	0	9,000
Academic Programs	1999	138,500	4,603	6,792	10,144	3,513	6,426	2,619	4,460	14,476
	2000	138,810	2,672	3,834	8,300	2,742	4,279	1,756	2,300	6,239
	2001	100,000	2,921	3,738	8,150	2,480	4,326	1,712	2,200	6,865
TOTAL SCIENCE, AERONAUTICS AND TECHNOLOGY	1999	5,653,900	246,897	288,682	622,932	69,416	379,548	121,881	397,293	335,766
	2000	5,580,895	307,999	239,193	458,378	68,984	368,243	137,311	317,597	290,179
	2001	5,929,400	399,427	339,591	502,277	54,551	398,404	139,002	376,247	291,716

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**DISTRIBUTION OF SCIENCE, AERONAUTICS, AND TECHNOLOGY BY INSTALLATION  
(Thousands of Dollars)**

Goddard Space Flight Center	Jet Propulsion Lab	Headquarters
741,721	708,730	113,653
764,738	825,000	153,935
870,508	985,193	47,195
11,069	12,881	19,711
10,324	10,484	28,747
6,776	13,988	18,013
882,418	247,300	36,973
895,380	248,174	28,486
811,664	248,492	41,485
4,478	6,111	45,504
1,227	4,072	71,021
3,781	10,452	36,906
30,411	3,082	4,676
30,849	2,916	1,970
29,338	2,916	1,970
34,889	9,193	50,180
32,076	6,988	72,991
33,119	13,368	38,876
101,800	132,400	3,100
71,800	131,900	5,300
0	0	0
0	0	0
0	0	0
94,600	131,100	6,200
69,933	3,314	12,220
90,247	2,264	14,177
52,031	1,319	14,258
1,841,830	1,113,818	235,837
1,864,565	1,224,810	303,636
1,868,698	1,393,460	166,027