

# NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

## Federal Funds

### SCIENCE

For necessary expenses, not otherwise provided for, in the conduct and support of science research and development activities, including research, development, operations, support, and services; maintenance and repair, facility planning and design; space flight, spacecraft control, and communications activities; program management; personnel and related costs, including uniforms or allowances therefor, as authorized by sections 5901 and 5902 of title 5, United States Code; travel expenses; purchase and hire of passenger motor vehicles; and purchase, lease, charter, maintenance, and operation of mission and administrative aircraft, **[\$7,795,000,000]** \$8,260,800,000, to remain available until September 30, **[2024]** 2025. (Science Appropriations Act, 2023.)

#### Program and Financing (in millions of dollars)

Identification code 080-0120-0-1-252	2022 actual	2023 est.	2024 est.
<b>Obligations by program activity:</b>			
0001 Science .....	7,801	7,795	8,261
<b>Budgetary resources:</b>			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1 .....	876	718	775
1010 Unobligated balance transfer to CECR [080-0130] .....	-7	.....	.....
1021 Recoveries of prior year unpaid obligations .....	39	57	57
1070 Unobligated balance (total) .....	908	775	832
Budget authority:			
Appropriations, discretionary:			
1100 Appropriation .....	7,614	7,795	8,261
1120 Appropriations transferred to CECR [080-0130] .....	-3	.....	.....
1160 Appropriation, discretionary (total) .....	7,611	7,795	8,261
1930 Total budgetary resources available .....	8,519	8,570	9,093
Memorandum (non-add) entries:			
1941 Unexpired unobligated balance, end of year .....	718	775	832
<b>Change in obligated balance:</b>			
Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1 .....	5,074	5,629	5,407
3010 New obligations, unexpired accounts .....	7,801	7,795	8,261
3011 Obligations ("upward adjustments"), expired accounts .....	10	.....	.....
3020 Outlays (gross) .....	-7,179	-7,960	-8,004
3040 Recoveries of prior year unpaid obligations, unexpired .....	-39	-57	-57
3041 Recoveries of prior year unpaid obligations, expired .....	-38	.....	.....
3050 Unpaid obligations, end of year .....	5,629	5,407	5,607
Memorandum (non-add) entries:			
3100 Obligated balance, start of year .....	5,074	5,629	5,407
3200 Obligated balance, end of year .....	5,629	5,407	5,607
<b>Budget authority and outlays, net:</b>			
Discretionary:			
4000 Budget authority, gross .....	7,611	7,795	8,261
Outlays, gross:			
4010 Outlays from new discretionary authority .....	2,659	3,118	3,304
4011 Outlays from discretionary balances .....	4,520	4,842	4,700
4020 Outlays, gross (total) .....	7,179	7,960	8,004
Offsets against gross budget authority and outlays:			
Offsetting collections (collected) from:			
4030 Federal sources .....	-1	.....	.....
4033 Non-Federal sources .....	-4	.....	.....
4040 Offsets against gross budget authority and outlays (total) ....	-5	.....	.....
Additional offsets against gross budget authority only:			
4052 Offsetting collections credited to expired accounts .....	5	.....	.....
4060 Additional offsets against budget authority only (total) .....	5	.....	.....
4070 Budget authority, net (discretionary) .....	7,611	7,795	8,261
4080 Outlays, net (discretionary) .....	7,174	7,960	8,004
4180 Budget authority, net (total) .....	7,611	7,795	8,261
4190 Outlays, net (total) .....	7,174	7,960	8,004

The Science appropriation provides for costs associated with the agency's Earth and space science programs: Earth Science, Planetary Science, Heliophysics, Biological and Physical Sciences, and Astrophysics. These programs, which are managed by the Science Mission Directorate, focus on three interdisciplinary objectives: discovering the secrets of the Universe; searching for life in the Solar System and beyond; and safeguarding and improving life on Earth. To accomplish these objectives, the Science Mission Directorate conducts research concerning the global Earth system; other planets in the solar system and around other stars; the connections among the Sun, Earth, and heliosphere; the origin and evolution of planetary systems, the galaxy,

and the universe, including the origin and distribution of life in the universe; and the effects of spaceflight on living systems in space. Program objectives are pursued through robotic flight missions, ground-based scientific research and data analysis, and the development of new technologies for future missions. Additionally, the Budget funds within Science a lunar robotic exploration program that will support innovative approaches to achieving human and science exploration goals.

The Science appropriation provides for all of the research, development, operations, salaries and related expenses, and other general and administrative activities required to execute the programs within this account. Costs include labor, travel, and procurement. Performance goals associated with these activities are addressed in NASA's detailed budget request.

#### Object Classification (in millions of dollars)

Identification code 080-0120-0-1-252	2022 actual	2023 est.	2024 est.
<b>Direct obligations:</b>			
Personnel compensation:			
11.1 Full-time permanent .....	364	386	379
11.3 Other than full-time permanent .....	8	8	8
11.5 Other personnel compensation .....	2	2	2
11.9 Total personnel compensation .....	374	396	389
12.1 Civilian personnel benefits .....	135	143	140
21.0 Travel and transportation of persons .....	16	3	3
22.0 Transportation of things .....	18	18	19
23.2 Rental payments to others .....	5	5	5
23.3 Communications, utilities, and miscellaneous charges .....	12	12	13
24.0 Printing and reproduction .....	1	1	1
25.1 Advisory and assistance services .....	147	147	156
25.2 Other services from non-Federal sources .....	238	238	252
25.3 Other goods and services from Federal sources .....	284	284	301
25.4 Operation and maintenance of facilities .....	16	16	17
25.5 Research and development contracts .....	5,304	5,282	5,640
25.7 Operation and maintenance of equipment .....	81	81	86
26.0 Supplies and materials .....	48	48	51
31.0 Equipment .....	151	151	160
32.0 Land and structures .....	1	1	1
41.0 Grants, subsidies, and contributions .....	970	969	1,027
99.9 Total new obligations, unexpired accounts .....	7,801	7,795	8,261

#### Employment Summary

Identification code 080-0120-0-1-252	2022 actual	2023 est.	2024 est.
1001 Direct civilian full-time equivalent employment .....	2,637	2,607	2,430

## AERONAUTICS

For necessary expenses, not otherwise provided for, in the conduct and support of aeronautics research and development activities, including research, development, operations, support, and services; maintenance and repair, facility planning and design; space flight, spacecraft control, and communications activities; program management; personnel and related costs, including uniforms or allowances therefor, as authorized by sections 5901 and 5902 of title 5, United States Code; travel expenses; purchase and hire of passenger motor vehicles; and purchase, lease, charter, maintenance, and operation of mission and administrative aircraft, **[\$935,000,000]** \$995,800,000, to remain available until September 30, **[2024]** 2025. (Science Appropriations Act, 2023.)

#### Program and Financing (in millions of dollars)

Identification code 080-0126-0-1-402	2022 actual	2023 est.	2024 est.
<b>Obligations by program activity:</b>			
0001 Aeronautics .....	874	935	996
<b>Budgetary resources:</b>			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1 .....	19	30	42
1021 Recoveries of prior year unpaid obligations .....	4	12	12
1070 Unobligated balance (total) .....	23	42	54
Budget authority:			
Appropriations, discretionary:			
1100 Appropriation .....	881	935	996
1930 Total budgetary resources available .....	904	977	1,050
Memorandum (non-add) entries:			
1941 Unexpired unobligated balance, end of year .....	30	42	54

AERONAUTICS—Continued  
Program and Financing—Continued

Identification code 080–0126–0–1–402	2022 actual	2023 est.	2024 est.
<b>Change in obligated balance:</b>			
Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1 .....	431	415	442
3010 New obligations, unexpired accounts .....	874	935	996
3020 Outlays (gross) .....	-883	-896	-959
3040 Recoveries of prior year unpaid obligations, unexpired .....	-4	-12	-12
3041 Recoveries of prior year unpaid obligations, expired .....	-3	.....	.....
3050 Unpaid obligations, end of year .....	415	442	467
Memorandum (non-add) entries:			
3100 Obligated balance, start of year .....	431	415	442
3200 Obligated balance, end of year .....	415	442	467
<b>Budget authority and outlays, net:</b>			
Discretionary:			
4000 Budget authority, gross .....	881	935	996
Outlays, gross:			
4010 Outlays from new discretionary authority .....	534	552	588
4011 Outlays from discretionary balances .....	349	344	371
4020 Outlays, gross (total) .....	883	896	959
4180 Budget authority, net (total) .....	881	935	996
4190 Outlays, net (total) .....	883	896	959

This appropriation provides for the full costs associated with NASA's Aeronautics Research mission, which aims to expand the boundaries of aeronautical knowledge for the benefit of the nation and the broad aeronautics community. The mission is managed by NASA's Aeronautics Research Mission Directorate, and consists of the following integrated research programs: Air-space Operations and Safety, Advanced Air Vehicles, Integrated Aviation Systems, Transformative Aeronautics Concepts, and Aerosciences Evaluation and Test Capabilities. Full costs of these programs include all labor, travel, procurement, test, and fabrication costs associated with the research, development, operations, and other general and administrative activities required to execute the programs. Performance goals associated with these activities are addressed in NASA's detailed budget request.

Object Classification (in millions of dollars)

Identification code 080–0126–0–1–402	2022 actual	2023 est.	2024 est.
Direct obligations:			
Personnel compensation:			
11.1 Full-time permanent .....	189	205	211
11.3 Other than full-time permanent .....	8	9	9
11.9 Total personnel compensation .....	197	214	220
12.1 Civilian personnel benefits .....	71	77	80
21.0 Travel and transportation of persons .....	5	.....	.....
23.3 Communications, utilities, and miscellaneous charges .....	5	5	6
25.1 Advisory and assistance services .....	17	18	19
25.2 Other services from non-Federal sources .....	20	21	23
25.3 Other goods and services from Federal sources .....	8	9	9
25.4 Operation and maintenance of facilities .....	61	65	70
25.5 Research and development contracts .....	334	360	391
25.7 Operation and maintenance of equipment .....	44	47	50
26.0 Supplies and materials .....	13	14	15
31.0 Equipment .....	34	36	39
32.0 Land and structures .....	6	6	7
41.0 Grants, subsidies, and contributions .....	59	63	67
99.9 Total new obligations, unexpired accounts .....	874	935	996

Employment Summary

Identification code 080–0126–0–1–402	2022 actual	2023 est.	2024 est.
1001 Direct civilian full-time equivalent employment .....	1,528	1,567	1,526

SPACE TECHNOLOGY

For necessary expenses, not otherwise provided for, in the conduct and support of space technology research and development activities, including research, development, operations, support, and services; maintenance and repair, facility planning and design; space flight, spacecraft control, and communications activities; program management; personnel and related costs, including uniforms or allowances therefor, as authorized by sections 5901 and 5902 of title 5, United States Code; travel expenses; purchase and hire of passenger motor vehicles; and purchase, lease, charter, maintenance, and operation of mission and administrative aircraft, **[\$1,200,000,000] \$1,391,600,000**, to remain available until September 30, **[2024: Provided,**

That \$227,000,000 shall be for On-orbit Servicing, Assembly, and Manufacturing 1: *Provided further*, That \$110,000,000 shall be for the development, production, and demonstration of a nuclear thermal propulsion system, of which not less than \$45,000,000 shall be for reactor development, not less than \$45,000,000 shall be for fuel materials development, and not less than \$20,000,000 shall be for non-nuclear systems development and acquisition planning: *Provided further*, That, not later than 180 days after the enactment of this Act, the National Aeronautics and Space Administration shall provide a plan for the design of a flight demonstration **█ 2025.** (*Science Appropriations Act, 2023.*)

Program and Financing (in millions of dollars)

Identification code 080–0131–0–1–252	2022 actual	2023 est.	2024 est.
<b>Obligations by program activity:</b>			
0001 Space Technology .....	1,108	1,200	1,392
<b>Budgetary resources:</b>			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1 .....	27	23	53
1021 Recoveries of prior year unpaid obligations .....	4	30	30
1070 Unobligated balance (total) .....	31	53	83
Budget authority:			
Appropriations, discretionary:			
1100 Appropriation .....	1,100	1,200	1,392
1930 Total budgetary resources available .....	1,131	1,253	1,475
Memorandum (non-add) entries:			
1941 Unexpired unobligated balance, end of year .....	23	53	83

Change in obligated balance:

Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1 .....	806	762	763
3010 New obligations, unexpired accounts .....	1,108	1,200	1,392
3011 Obligations ("upward adjustments"), expired accounts .....	3	.....	.....
3020 Outlays (gross) .....	-1,148	-1,169	-1,272
3040 Recoveries of prior year unpaid obligations, unexpired .....	-4	-30	-30
3041 Recoveries of prior year unpaid obligations, expired .....	-3	.....	.....
3050 Unpaid obligations, end of year .....	762	763	853
Memorandum (non-add) entries:			
3100 Obligated balance, start of year .....	806	762	763
3200 Obligated balance, end of year .....	762	763	853

Budget authority and outlays, net:

Discretionary:			
4000 Budget authority, gross .....	1,100	1,200	1,392
Outlays, gross:			
4010 Outlays from new discretionary authority .....	523	552	626
4011 Outlays from discretionary balances .....	625	617	646
4020 Outlays, gross (total) .....	1,148	1,169	1,272
Offsets against gross budget authority and outlays:			
Offsetting collections (collected) from:			
4030 Federal sources .....	-3	.....	.....
4033 Non-Federal sources .....	-1	.....	.....
4040 Offsets against gross budget authority and outlays (total) ...	-4	.....	.....
Additional offsets against gross budget authority only:			
4052 Offsetting collections credited to expired accounts .....	4	.....	.....
4070 Budget authority, net (discretionary) .....	1,100	1,200	1,392
4080 Outlays, net (discretionary) .....	1,144	1,169	1,272
4180 Budget authority, net (total) .....	1,100	1,200	1,392
4190 Outlays, net (total) .....	1,144	1,169	1,272

Space Technology aims to transform future missions while ensuring American leadership in the space economy by rapidly developing, demonstrating and transferring revolutionary, high-payoff space technologies driven by diverse ideas. The Space Technology appropriation funds Early Stage Innovation & Partnerships, Technology Maturation, Technology Demonstrations, and Small Business Innovative Research (SBIR) and Small Business Technology Transfer (STTR) programs. This appropriation provides for the full costs for all of the research, development, operations, salaries and related expenses, and other general and administrative activities required to execute the programs within this account.

Object Classification (in millions of dollars)

Identification code 080–0131–0–1–252	2022 actual	2023 est.	2024 est.
Direct obligations:			
Personnel compensation:			
11.1 Full-time permanent .....	119	109	106
11.3 Other than full-time permanent .....	3	3	3
11.5 Other personnel compensation .....	1	1	1
11.9 Total personnel compensation .....	123	113	110
12.1 Civilian personnel benefits .....	45	42	40
21.0 Travel and transportation of persons .....	3	.....	.....

22.0	Transportation of things .....	7	8	9
25.1	Advisory and assistance services .....	57	62	72
25.2	Other services from non-Federal sources .....	27	29	34
25.3	Other goods and services from Federal sources .....	47	51	59
25.4	Operation and maintenance of facilities .....	3	3	4
25.5	Research and development contracts .....	693	780	935
25.7	Operation and maintenance of equipment .....	10	11	13
26.0	Supplies and materials .....	8	9	10
31.0	Equipment .....	12	13	15
32.0	Land and structures .....	1	1	1
41.0	Grants, subsidies, and contributions .....	72	78	90
99.9	Total new obligations, unexpired accounts .....	1,108	1,200	1,392

**Employment Summary**

Identification code 080-0131-0-1-252	2022 actual	2023 est.	2024 est.
1001 Direct civilian full-time equivalent employment .....	943	762	716

**EXPLORATION**

For necessary expenses, not otherwise provided for, in the conduct and support of Artemis Campaign Development activities, including research, development, operations, support, and services; maintenance and repair, facility planning and design; space flight, spacecraft control, and communications activities; program management; personnel and related costs, including uniforms or allowances therefor, as authorized by sections 5901 and 5902 of title 5, United States Code; travel expenses; purchase and hire of passenger motor vehicles; and purchase, lease, charter, maintenance, and operation of mission and administrative aircraft, **[\$7,468,850,000] \$7,971,091,000**, to remain available until September 30, **[2024: Provided further, That not less than \$1,338,700,000 shall be for the Orion Multi-Purpose Crew Vehicle: Provided further, That not less than \$2,600,000,000 shall be for the Space Launch System (SLS) launch vehicle, which shall have a lift capability not less than 130 metric tons and which shall have core elements and an Exploration Upper Stage developed simultaneously to be used to the maximum extent practicable, including for Earth to Moon missions and Moon landings: Provided further, That of the amounts provided for SLS, not less than \$600,000,000 shall be for SLS Block 1B development including the Exploration Upper Stage and associated systems including related facilitization, to support an SLS Block 1B mission available to launch in 2025 in addition to the planned Block 1 missions for Artemis I through Artemis III: Provided further, That \$799,150,000 shall be for Exploration Ground Systems and associated Block 1B activities, including up to \$281,350,000 for a second mobile launch platform: Provided further, That the National Aeronautics and Space Administration shall provide to the Committees on Appropriations of the House of Representatives and the Senate, concurrent with the annual budget submission, a 5-year budget profile for an integrated system that includes the SLS, the Orion Multi-Purpose Crew Vehicle, and associated ground systems that will ensure a crewed launch as early as possible, as well as a system-based funding profile for a sustained launch cadence that contemplates the use of an SLS Block 1B cargo variant with an 8.4 meter fairing and associated ground systems: Provided further, That \$2,600,300,000 shall be for Artemis Campaign Development] 2025. (Science Appropriations Act, 2023.)**

**Program and Financing** (in millions of dollars)

Identification code 080-0124-0-1-252	2022 actual	2023 est.	2024 est.
<b>Obligations by program activity:</b>			
0001 Deep Space Exploration Systems .....	6,876	7,469	7,971
<b>Budgetary resources:</b>			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1 .....	161	223	356
1021 Recoveries of prior year unpaid obligations .....	35	133	133
1070 Unobligated balance (total) .....	196	356	489
Budget authority:			
Appropriations, discretionary:			
1100 Appropriation .....	6,792	7,469	7,971
1120 Appropriations transferred to CECR [080-0130] .....	-1		
1121 Appropriations transferred from CECR [080-0130] .....	48		
1121 Appropriations transferred from Space Operations [080-0115] .....	64		
1160 Appropriation, discretionary (total) .....	6,903	7,469	7,971
1930 Total budgetary resources available .....	7,099	7,825	8,460
Memorandum (non-add) entries:			
1941 Unexpired unobligated balance, end of year .....	223	356	489
<b>Change in obligated balance:</b>			
Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1 .....	3,015	3,365	3,639
3010 New obligations, unexpired accounts .....	6,876	7,469	7,971
3011 Obligations ("upward adjustments"), expired accounts .....	7		
3020 Outlays (gross) .....	-6,492	-7,062	-7,620
3040 Recoveries of prior year unpaid obligations, unexpired .....	-35	-133	-133

3041 Recoveries of prior year unpaid obligations, expired .....	-6		
3050 Unpaid obligations, end of year .....	3,365	3,639	3,857
Memorandum (non-add) entries:			
3100 Obligated balance, start of year .....	3,015	3,365	3,639
3200 Obligated balance, end of year .....	3,365	3,639	3,857
<b>Budget authority and outlays, net:</b>			
Discretionary:			
4000 Budget authority, gross .....	6,903	7,469	7,971
Outlays, gross:			
4010 Outlays from new discretionary authority .....	3,626	4,033	4,225
4011 Outlays from discretionary balances .....	2,866	3,029	3,395
4020 Outlays, gross (total) .....	6,492	7,062	7,620
Offsets against gross budget authority and outlays:			
Offsetting collections (collected) from:			
4030 Federal sources .....	-2		
4033 Non-Federal sources .....	-3		
4040 Offsets against gross budget authority and outlays (total) ....	-5		
Additional offsets against gross budget authority only:			
4052 Offsetting collections credited to expired accounts .....	5		
4070 Budget authority, net (discretionary) .....	6,903	7,469	7,971
4080 Outlays, net (discretionary) .....	6,487	7,062	7,620
4180 Budget authority, net (total) .....	6,903	7,469	7,971
4190 Outlays, net (total) .....	6,487	7,062	7,620

This appropriation provides for costs associated with the development of systems and capabilities required for human exploration of space. The capabilities include launch and crew vehicles for missions beyond low Earth orbit; providing integrated systems to keep astronauts safe, healthy, and functional during deep space missions; and advancing the tools to increase exploration capabilities and reduce the cost of deep space missions. The full costs provide for the research, development, operations, salaries and related expenses, and other general and administrative activities required to execute the programs within this account. Costs include labor, travel, procurement, test, and fabrication costs. Major themes within the Deep Space Exploration Systems account include Common Exploration Systems Development, Artemis Campaign Development, Mars Campaign Development, and Human Exploration Requirements & Architecture. Performance goals associated with these activities are addressed in NASA's detailed budget request.

The Common Exploration Systems Development theme is comprised of the Space Launch System, Orion, and Exploration Ground Systems. The objective of the theme is to design, develop, test, and evaluate the initial vehicles in these programs and any follow-on development projects needed to enhance the vehicles along with the production and operations of the vehicles for each flight.

The Artemis Campaign Development theme is comprised of the Gateway, Advanced Cis-lunar and Surface Capabilities, the Human Lander System, and the Exploration Extravehicular Activity and Human Surface Mobility Program. These programs are developing the systems that will enable humans to live and operate in deep space, land humans on the Moon, explore the lunar surface, and prepare for Mars exploration.

The Human Exploration Requirements & Architecture theme consists of the Moon and Mars Architecture Program. The program is responsible for the integration of strategy and architecture across the Exploration Systems Development Mission Directorate (ESDMD).

The Mars Campaign Development theme consists of the Exploration Capabilities Program. This program is developing and testing prototype technologies, as well as contributing to the planning and development of flight missions to lunar orbit and the Moon, to develop systems and operations capabilities that enable an eventual mission to Mars.

**Object Classification** (in millions of dollars)

Identification code 080-0124-0-1-252	2022 actual	2023 est.	2024 est.
<b>Direct obligations:</b>			
Personnel compensation:			
11.1 Full-time permanent .....	381	408	407
11.3 Other than full-time permanent .....	4	4	4
11.5 Other personnel compensation .....	3	3	3
11.8 Special personal services payments .....	1	1	1
11.9 Total personnel compensation .....	389	416	415
12.1 Civilian personnel benefits .....	145	156	155
21.0 Travel and transportation of persons .....	11	9	9
22.0 Transportation of things .....	1	1	1
23.2 Rental payments to others .....	9	10	10
23.3 Communications, utilities, and miscellaneous charges .....	15	16	17
25.1 Advisory and assistance services .....	431	468	500
25.2 Other services from non-Federal sources .....	34	37	39
25.3 Other goods and services from Federal sources .....	28	30	32
25.4 Operation and maintenance of facilities .....	103	112	119
25.5 Research and development contracts .....	5,042	5,488	5,900
25.7 Operation and maintenance of equipment .....	149	162	173
26.0 Supplies and materials .....	55	60	64
31.0 Equipment .....	383	416	444
32.0 Land and structures .....	47	51	54
41.0 Grants, subsidies, and contributions .....	34	37	39

EXPLORATION—Continued  
Object Classification—Continued

Identification code 080-0124-0-1-252	2022 actual	2023 est.	2024 est.
99.9 Total new obligations, unexpired accounts .....	6,876	7,469	7,971

Employment Summary

Identification code 080-0124-0-1-252	2022 actual	2023 est.	2024 est.
1001 Direct civilian full-time equivalent employment .....	2,900	2,969	2,834

SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS ENGAGEMENT

For necessary expenses, not otherwise provided for, in the conduct and support of aerospace and aeronautical education research and development activities, including research, development, operations, support, and services; program management; personnel and related costs, including uniforms or allowances therefor, as authorized by sections 5901 and 5902 of title 5, United States Code; travel expenses; purchase and hire of passenger motor vehicles; and purchase, lease, charter, maintenance, and operation of mission and administrative aircraft, **[\$143,500,000]** \$157,800,000, to remain available until September 30, **[2024, of which \$26,000,000 shall be for the Established Program to Stimulate Competitive Research and \$58,000,000 shall be for the National Space Grant College and Fellowship Program]** 2025. (Science Appropriations Act, 2023.)

Program and Financing (in millions of dollars)

Identification code 080-0128-0-1-252	2022 actual	2023 est.	2024 est.
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<b>Obligations by program activity:</b>			
0001 STEM Engagement .....	132	144	158

**Budgetary resources:**  
Unobligated balance:

1000 Unobligated balance brought forward, Oct 1 .....	7	12	14
1021 Recoveries of prior year unpaid obligations .....		2	2
1070 Unobligated balance (total) .....	7	14	16
<b>Budget authority:</b>			
<b>Appropriations, discretionary:</b>			
1100 Appropriation .....	137	144	158
1930 Total budgetary resources available .....	144	158	174
<b>Memorandum (non-add) entries:</b>			
1941 Unexpired unobligated balance, end of year .....	12	14	16

**Change in obligated balance:**

<b>Unpaid obligations:</b>			
3000 Unpaid obligations, brought forward, Oct 1 .....	171	179	197
3010 New obligations, unexpired accounts .....	132	144	158
3020 Outlays (gross) .....	-122	-124	-140
3040 Recoveries of prior year unpaid obligations, unexpired .....		-2	-2
3041 Recoveries of prior year unpaid obligations, expired .....	-2		
3050 Unpaid obligations, end of year .....	179	197	213
<b>Memorandum (non-add) entries:</b>			
3100 Obligated balance, start of year .....	171	179	197
3200 Obligated balance, end of year .....	179	197	213

**Budget authority and outlays, net:**

<b>Discretionary:</b>			
4000 Budget authority, gross .....	137	144	158
<b>Outlays, gross:</b>			
4010 Outlays from new discretionary authority .....	18	19	21
4011 Outlays from discretionary balances .....	104	105	119
4020 Outlays, gross (total) .....	122	124	140
4180 Budget authority, net (total) .....	137	144	158
4190 Outlays, net (total) .....	122	124	140

This appropriation provides for costs associated with the Office of Science, Technology, Engineering, and Mathematics (STEM) Engagement. This includes support for four projects. The Minority University Research and Education Project (MUREP) aims to increase the number of students in STEM at all education levels and encourage them to earn degrees in STEM fields that are critical to NASA and the Nation. Space Grant funds education and research projects through a national network of university-based consortia. To maximize impact for these STEM investments, Space Grant leverages Agency resources in STEM education through strategic collaborations with NASA centers, subject matter experts, and mission directorates. Next Gen STEM provides learning opportunities for students in grades K-12 that infuse the excitement of NASA missions and programs into an integrated portfolio of educational products, experiences, challenges, and competitive awards, and sustains a national network of museums and science

centers. The Established Program to Stimulate Competitive Research (EPSCoR) provides cooperative agreement opportunities designed to establish partnerships between government, higher education, and industry in an effort to build stronger research and development capabilities in 28 eligible EPSCoR jurisdictions. NASA will expand its efforts to broaden diversity and inclusion in STEM, including working with partner organizations to attract and retain underrepresented students in STEM fields and providing greater access to NASA STEM learning opportunities. Performance goals associated with these activities are addressed in NASA's detailed budget request.

Object Classification (in millions of dollars)

Identification code 080-0128-0-1-252	2022 actual	2023 est.	2024 est.
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11.1 Direct obligations: Personnel compensation: Full-time permanent .....	5	6	6
11.9 Total personnel compensation .....	5	6	6
12.1 Civilian personnel benefits .....	2	2	2
21.0 Travel and transportation of persons .....	1	1	1
25.1 Advisory and assistance services .....	1	1	1
25.2 Other services from non-Federal sources .....	5	5	6
25.5 Research and development contracts .....	8	9	10
25.7 Operation and maintenance of equipment .....	4	4	5
31.0 Equipment .....	2	2	2
41.0 Grants, subsidies, and contributions .....	104	114	125
99.9 Total new obligations, unexpired accounts .....	132	144	158

Employment Summary

Identification code 080-0128-0-1-252	2022 actual	2023 est.	2024 est.
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1001 Direct civilian full-time equivalent employment .....	43	49	49
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SAFETY, SECURITY AND MISSION SERVICES

For necessary expenses, not otherwise provided for, in the conduct and support of science, aeronautics, space technology, exploration, space operations and education research and development activities, including research, development, operations, support, and services; maintenance and repair, facility planning and design; space flight, spacecraft control, and communications activities; program management; personnel and related costs, including uniforms or allowances therefor, as authorized by sections 5901 and 5902 of title 5, United States Code; travel expenses; purchase and hire of passenger motor vehicles, including zero emission passenger motor vehicles and supporting charging or fueling infrastructure; not to exceed \$63,000 for official reception and representation expenses; and purchase, lease, charter, maintenance, and operation of mission and administrative aircraft, **[\$3,129,451,000]** \$3,369,400,000, to remain available until September 30, **[2024: Provided, That if available balances in the "Science, Space, and Technology Education Trust Fund" are not sufficient to provide for the grant disbursements required under the third and fourth provisos under such heading in the Department of Housing and Urban Development-Independent Agencies Appropriations Act, 1989 (Public Law 100-404) as amended by the Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations Act, 1995 (Public Law 103-327) up to \$1,000,000 shall be available from amounts made available under this heading to make such grant disbursements: Provided further, That of the amounts appropriated under this heading, \$30,701,000 shall be used for the projects, and in the amounts, specified in the table under the heading "NASA Community Projects/NASA Special Projects" in the explanatory statement described in section 4 (in the matter preceding division A of this consolidated Act): Provided further, That the amounts made available for the projects referenced in the preceding proviso may not be transferred for any other purpose]** 2025. (Science Appropriations Act, 2023.)

Program and Financing (in millions of dollars)

Identification code 080-0122-0-1-252	2022 actual	2023 est.	2024 est.
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<b>Obligations by program activity:</b>			
0001 Safety, Security and Mission Services .....	3,074	3,129	3,369
0801 Cross Agency Support (Reimbursable) .....	1,303	2,554	2,336
0900 Total new obligations, unexpired accounts .....	4,377	5,683	5,705

**Budgetary resources:**

<b>Unobligated balance:</b>			
1000 Unobligated balance brought forward, Oct 1 .....	762	900	900
1021 Recoveries of prior year unpaid obligations .....	33		
1070 Unobligated balance (total) .....	795	900	900
<b>Budget authority:</b>			
<b>Appropriations, discretionary:</b>			
1100 Appropriation .....	3,021	3,129	3,369
1700 Spending authority from offsetting collections, discretionary:			
1701 Collected .....	1,336	2,554	2,336
1701 Change in uncollected payments, Federal sources .....	125		

1750	Spending auth from offsetting collections, disc (total) .....	1,461	2,554	2,336
1900	Budget authority (total) .....	4,482	5,683	5,705
1930	Total budgetary resources available .....	5,277	6,583	6,605
Memorandum (non-add) entries:				
1941	Unexpired unobligated balance, end of year .....	900	900	900
<b>Change in obligated balance:</b>				
Unpaid obligations:				
3000	Unpaid obligations, brought forward, Oct 1 .....	2,076	1,981	2,537
3010	New obligations, unexpired accounts .....	4,377	5,683	5,705
3011	Obligations ("upward adjustments"), expired accounts .....	9		
3020	Outlays (gross) .....	-4,434	-5,127	-5,711
3040	Recoveries of prior year unpaid obligations, unexpired .....	-33		
3041	Recoveries of prior year unpaid obligations, expired .....	-14		
3050	Unpaid obligations, end of year .....	1,981	2,537	2,531
Uncollected payments:				
3060	Uncollected pymts, Fed sources, brought forward, Oct 1 .....	-1,687	-1,598	-1,598
3070	Change in uncollected pymts, Fed sources, unexpired .....	-125		
3071	Change in uncollected pymts, Fed sources, expired .....	214		
3090	Uncollected pymts, Fed sources, end of year .....	-1,598	-1,598	-1,598
Memorandum (non-add) entries:				
3100	Obligated balance, start of year .....	389	383	939
3200	Obligated balance, end of year .....	383	939	933

<b>Budget authority and outlays, net:</b>				
Discretionary:				
4000	Budget authority, gross .....	4,482	5,683	5,705
Outlays, gross:				
4010	Outlays from new discretionary authority .....	2,661	3,371	3,489
4011	Outlays from discretionary balances .....	1,773	1,756	2,222
4020	Outlays, gross (total) .....	4,434	5,127	5,711
Offsets against gross budget authority and outlays:				
Offsetting collections (collected) from:				
4030	Federal sources .....	-1,305	-2,304	-2,086
4033	Non-Federal sources .....	-245	-250	-250
4040	Offsets against gross budget authority and outlays (total) ....	-1,550	-2,554	-2,336
Additional offsets against gross budget authority only:				
4050	Change in uncollected pymts, Fed sources, unexpired .....	-125		
4052	Offsetting collections credited to expired accounts .....	214		
4060	Additional offsets against budget authority only (total) .....	89		
4070	Budget authority, net (discretionary) .....	3,021	3,129	3,369
4080	Outlays, net (discretionary) .....	2,884	2,573	3,375
4180	Budget authority, net (total) .....	3,021	3,129	3,369
4190	Outlays, net (total) .....	2,884	2,573	3,375

Safety, Security, and Mission Services (SSMS) manages agency-wide mission support functions and some of NASA's research facilities. This appropriation provides for the operations and maintenance, salaries and related expenses, and other general and administrative activities that support all NASA's missions. SSMS programs, projects and activities fall under the two Themes described below. Performance goals associated with these activities are addressed in NASA's detailed budget request.

Mission Services and Capabilities (MSaC) delivers enterprise solutions through three programs: Information Technology; Mission Enabling Services; and Infrastructure and Technical Capabilities. These programs meet workforce, infrastructure, information technology and business operations requirements necessary to enable NASA's mission. MSaC ensures that critical Agency operations across all NASA Centers are effective; efficient; safe; and meet statutory, regulatory, and fiduciary responsibilities.

Engineering, Safety, and Operations (ESO) provides for the ongoing management of NASA Headquarters, nine Centers, and component facilities. It funds medical and engineering technical authorities and contributes to the reduction of program risks by ensuring that technical skills and assets are ready and available to meet program and project requirements. ESO ensures that Center practices are technically and scientifically sound and that specialized infrastructure at the Centers is safe and reliable.

**Object Classification** (in millions of dollars)

Identification code 080-0122-0-1-252				
		2022 actual	2023 est.	2024 est.
Direct obligations:				
Personnel compensation:				
11.1	Full-time permanent .....	921	1,001	1,023
11.3	Other than full-time permanent .....	22	22	24
11.5	Other personnel compensation .....	63	64	69
11.8	Special personal services payments .....		1	1
11.9	Total personnel compensation .....	1,006	1,088	1,117
12.1	Civilian personnel benefits .....	344	373	392
21.0	Travel and transportation of persons .....	14	15	16
22.0	Transportation of things .....	1	1	1
23.1	Rental payments to GSA .....	38	39	40
23.3	Communications, utilities, and miscellaneous charges .....	63	64	69
24.0	Printing and reproduction .....	2	2	2

25.1	Advisory and assistance services .....	476	440	493
25.2	Other services from non-Federal sources .....	236	240	269
25.3	Other goods and services from Federal sources .....	51	52	66
25.4	Operation and maintenance of facilities .....	220	179	241
25.5	Research and development contracts .....	164	167	190
25.6	Medical care .....	6	6	7
25.7	Operation and maintenance of equipment .....	205	209	225
26.0	Supplies and materials .....	13	13	13
31.0	Equipment .....	167	170	153
32.0	Land and structures .....	32	33	35
41.0	Grants, subsidies, and contributions .....	36	37	40
42.0	Insurance claims and indemnities .....		1	
99.0	Direct obligations .....	3,074	3,129	3,369
99.0	Reimbursable obligations .....	1,303	2,554	2,336
99.9	Total new obligations, unexpired accounts .....	4,377	5,683	5,705

**Employment Summary**

Identification code 080-0122-0-1-252		2022 actual	2023 est.	2024 est.
1001	Direct civilian full-time equivalent employment .....	6,780	7,205	7,107
2001	Reimbursable civilian full-time equivalent employment .....	382	300	300

**CONSTRUCTION AND ENVIRONMENTAL COMPLIANCE AND RESTORATION**

For necessary expenses for construction of facilities including repair, rehabilitation, revitalization, and modification of facilities, construction of new facilities and additions to existing facilities, facility planning and design, and restoration, and acquisition or condemnation of real property, as authorized by law, and environmental compliance and restoration, **[\$47,300,000]** \$453,700,000, to remain available until September 30, **[2028]** 2029: *Provided*, That proceeds from leases deposited into this account shall be available for a period of 5 years to the extent and in amounts as provided in annual appropriations Acts: *Provided further*, That such proceeds referred to in the preceding proviso shall be available for obligation for fiscal year **[2023]** 2024 in an amount not to exceed **[\$25,000,000]** \$30,000,000: *Provided further*, That each annual budget request shall include an annual estimate of gross receipts and collections and proposed use of all funds collected pursuant to section 20145 of title 51, United States Code. (*Science Appropriations Act, 2023.*)

**CONSTRUCTION AND ENVIRONMENTAL COMPLIANCE AND RESTORATION**

**[For an additional amount for "Construction and Environmental Compliance and Restoration" for repair and replacement of National Aeronautics and Space Administration facilities damaged by Hurricanes Ian and Nicole or scheduled for derating due to deterioration, \$189,400,000, to remain available until expended. ]**

**[For an additional amount for "Construction and Environmental Compliance and Restoration", \$367,000,000, to remain available until September 30, 2028. ]** (*Disaster Relief Supplemental Appropriations Act, 2023.*)

**Program and Financing** (in millions of dollars)

Identification code 080-0130-0-1-252				
		2022 actual	2023 est.	2024 est.
<b>Obligations by program activity:</b>				
0001	Construction and Environmental Compliance and Restoration (Direct) .....	725	414	454
0801	Construction and Environmental Compliance and Restoration (Reimbursable) .....		30	30
0900	Total new obligations, unexpired accounts .....	725	444	484
<b>Budgetary resources:</b>				
Unobligated balance:				
1000	Unobligated balance brought forward, Oct 1 .....	335	359	548
1011	Unobligated balance transfer from Science (080-0120) .....	7		
1021	Recoveries of prior year unpaid obligations .....	32		
1070	Unobligated balance (total) .....	374	359	548
Budget authority:				
Appropriations, discretionary:				
1100	Appropriation .....	410	47	454
1100	Appropriation [Disaster Relief Supplemental] .....	322		
1100	Appropriation [Division N.P.L. 117-328] .....		367	
1100	Appropriation [Hurricane No Year Division N.P.L. 117-328] .....		189	
1120	Appropriations transferred to Exploration (080-0124) .....	-48		
1121	Appropriations transferred from Science (080-0120) .....	3		
1121	Appropriations transferred from Exploration (080-0124) .....	1		
1121	Appropriations transferred from Space Operations (080-0115) .....	2		
1160	Appropriation, discretionary (total) .....	690	603	454

CONSTRUCTION AND ENVIRONMENTAL COMPLIANCE AND RESTORATION—Continued  
**Program and Financing—Continued**

Identification code 080–0130–0–1–252	2022 actual	2023 est.	2024 est.
<b>Spending authority from offsetting collections, discretionary:</b>			
1700 Collected .....	20	30	30
1900 Budget authority (total) .....	710	633	484
1930 Total budgetary resources available .....	1,084	992	1,032
<b>Memorandum (non-add) entries:</b>			
1941 Unexpired unobligated balance, end of year .....	359	548	548
<b>Change in obligated balance:</b>			
<b>Unpaid obligations:</b>			
3000 Unpaid obligations, brought forward, Oct 1 .....	827	1,073	559
3010 New obligations, unexpired accounts .....	725	444	484
3020 Outlays (gross) .....	-445	-958	-588
3040 Recoveries of prior year unpaid obligations, unexpired .....	-32		
3041 Recoveries of prior year unpaid obligations, expired .....	-2		
3050 Unpaid obligations, end of year .....	1,073	559	455
<b>Memorandum (non-add) entries:</b>			
3100 Obligated balance, start of year .....	827	1,073	559
3200 Obligated balance, end of year .....	1,073	559	455
<b>Budget authority and outlays, net:</b>			
<b>Discretionary:</b>			
4000 Budget authority, gross .....	710	633	484
<b>Outlays, gross:</b>			
4010 Outlays from new discretionary authority .....	25	321	186
4011 Outlays from discretionary balances .....	420	637	402
4020 Outlays, gross (total) .....	445	958	588
<b>Offsets against gross budget authority and outlays:</b>			
<b>Offsetting collections (collected) from:</b>			
4033 Non-Federal sources .....	-20	-30	-30
4040 Offsets against gross budget authority and outlays (total) ....	-20	-30	-30
4180 Budget authority, net (total) .....	690	603	454
4190 Outlays, net (total) .....	425	928	558

This appropriation provides for NASA's construction and environmental compliance and restoration activities, and makes available the net proceeds from Enhanced Use Leases, received under the authority of section 20145 of the National Aeronautics and Space Act (51 U.S.C. 20145), for maintenance, capital revitalization, and improvement of real property assets and related personal property at NASA Centers. Performance goals associated with these activities are addressed in NASA's detailed budget request.

**Object Classification (in millions of dollars)**

Identification code 080–0130–0–1–252	2022 actual	2023 est.	2024 est.
<b>Direct obligations:</b>			
23.3 Communications, utilities, and miscellaneous charges .....	2	1	1
25.1 Advisory and assistance services .....	17	10	11
25.2 Other services from non-Federal sources .....	53	30	33
25.3 Other goods and services from Federal sources .....	235	135	148
25.4 Operation and maintenance of facilities .....	88	50	55
25.5 Research and development contracts .....	32	18	20
25.7 Operation and maintenance of equipment .....	2	1	1
31.0 Equipment .....	7	4	4
32.0 Land and structures .....	289	165	181
99.0 Direct obligations .....	725	414	454
99.0 Reimbursable obligations .....		30	30
99.9 Total new obligations, unexpired accounts .....	725	444	484

**SPACE OPERATIONS**

For necessary expenses, not otherwise provided for, in the conduct and support of space operations research and development activities, including research, development, operations, support and services; space flight, spacecraft control, and communications activities, including operations, production, and services; maintenance and repair, facility planning and design; program management; personnel and related costs, including uniforms or allowances therefor, as authorized by sections 5901 and 5902 of title 5, United States Code; travel expenses; purchase and hire of passenger motor vehicles; and purchase, lease, charter, maintenance, and operation of mission and administrative aircraft, **[\$4,250,000,000] \$4,534,609,000**, to remain available until September 30, **[2024] 2025**. (*Science Appropriations Act, 2023*.)

**Program and Financing (in millions of dollars)**

Identification code 080–0115–0–1–252	2022 actual	2023 est.	2024 est.
<b>Obligations by program activity:</b>			
0001 Space Operations .....	4,154	4,250	4,535
<b>Budgetary resources:</b>			
<b>Unobligated balance:</b>			
1000 Unobligated balance brought forward, Oct 1 .....	290	183	387
1021 Recoveries of prior year unpaid obligations .....	72	204	204
1070 Unobligated balance (total) .....	362	387	591
<b>Budget authority:</b>			
<b>Appropriations, discretionary:</b>			
1100 Appropriation .....	4,041	4,250	4,535
1120 Appropriations transferred to CECR [080–0130] .....	-2		
1120 Appropriations transferred to Exploration [080–0124] .....	-64		
1160 Appropriation, discretionary (total) .....	3,975	4,250	4,535
1900 Budget authority (total) .....	3,975	4,250	4,535
1930 Total budgetary resources available .....	4,337	4,637	5,126
<b>Memorandum (non-add) entries:</b>			
1941 Unexpired unobligated balance, end of year .....	183	387	591
<b>Change in obligated balance:</b>			
<b>Unpaid obligations:</b>			
3000 Unpaid obligations, brought forward, Oct 1 .....	2,247	2,470	2,482
3010 New obligations, unexpired accounts .....	4,154	4,250	4,535
3011 Obligations ("upward adjustments"), expired accounts .....	5		
3020 Outlays (gross) .....	-3,859	-4,034	-4,352
3040 Recoveries of prior year unpaid obligations, unexpired .....	-72	-204	-204
3041 Recoveries of prior year unpaid obligations, expired .....	-5		
3050 Unpaid obligations, end of year .....	2,470	2,482	2,461
<b>Memorandum (non-add) entries:</b>			
3100 Obligated balance, start of year .....	2,247	2,470	2,482
3200 Obligated balance, end of year .....	2,470	2,482	2,461
<b>Budget authority and outlays, net:</b>			
<b>Discretionary:</b>			
4000 Budget authority, gross .....	3,975	4,250	4,535
<b>Outlays, gross:</b>			
4010 Outlays from new discretionary authority .....	1,958	2,252	2,494
4011 Outlays from discretionary balances .....	1,901	1,782	1,858
4020 Outlays, gross (total) .....	3,859	4,034	4,352
<b>Offsets against gross budget authority and outlays:</b>			
<b>Offsetting collections (collected) from:</b>			
4033 Non-Federal sources .....	-1		
4040 Offsets against gross budget authority and outlays (total) ....	-1		
<b>Additional offsets against gross budget authority only:</b>			
4052 Offsetting collections credited to expired accounts .....	1		
4060 Additional offsets against budget authority only (total) .....	1		
4070 Budget authority, net (discretionary) .....	3,975	4,250	4,535
4080 Outlays, net (discretionary) .....	3,858	4,034	4,352
4180 Budget authority, net (total) .....	3,975	4,250	4,535
4190 Outlays, net (total) .....	3,858	4,034	4,352

This appropriation provides for the full costs associated with human-related low-Earth orbit (LEO) and spaceflight operations activities of the Agency. The full costs include all labor, travel, procurement, test, and fabrication costs associated with the research, development, operations, and other general and administrative activities conducted by the programs within this account. Major themes within the Space Operations account include the International Space Station, Space Transportation, Space and Flight Support, and Commercial LEO Development. Performance goals associated with these activities are addressed in NASA's detailed budget request.

The International Space Station (ISS) is a complex of research laboratories in LEO where America and its international partners, including Russia, Canada, Europe, and Japan, conduct unique scientific and technological investigations in a microgravity environment. The objective of the International Space Station is to support human space exploration and conduct science experiments and technology development activities unique to the on-orbit attributes of the facility. The ISS is also laying the groundwork for a gradual transition to an industry-led human spaceflight ecosystem in low-Earth orbit. This transition will take place throughout this decade until the ISS reaches the end of its operational life and is retired in 2030.

The Space Transportation theme is comprised of the Commercial Crew Program and Crew and Cargo Program, which transport U.S. astronauts and cargo safely back and forth to the ISS and, in the future, to other orbital platforms and destinations. Maintaining the ISS and future commercial space stations requires a fleet of vehicles and launch locations to transport astronauts, science experiments, supplies, maintenance hardware, and propellant to space stations in low-Earth orbit, and to dispose of waste generated on these space stations. The Commercial Crew Program partners with two U.S. companies, SpaceX and Boeing, to develop and operate safe, reliable, and affordable crew transportation to LEO. The Commercial Crew Program also provides technical oversight on these contracts. The Crew and Cargo Program purchases cargo transport-

ation services to the ISS through contracts with Northrop Grumman, SpaceX, and Sierra Nevada and purchases crew transportation services from Boeing and SpaceX.

Space and Flight Support is comprised of multiple programs that provide ongoing support for a wide range of services required for safe and successful space mission operations. These programs include Space Communications and Navigation, Communications Services Program, Human Research Program, Human Space Flight Operations, Launch Services, and Rocket Propulsion Testing. Services are provided to a wide range of customers including NASA, other U.S. Federal agencies, foreign governments, and industry partners.

Commercial LEO Development supports efforts to expand commercial activities in LEO, with a focus on enabling, developing, and deploying commercial platforms that can be used by NASA and other customers and on supporting the growth of private sector activity in LEO.

**Object Classification** (in millions of dollars)

Identification code 080-0115-0-1-252	2022 actual	2023 est.	2024 est.
<b>Direct obligations:</b>			
<b>Personnel compensation:</b>			
11.1 Full-time permanent .....	297	330	342
11.3 Other than full-time permanent .....	4	4	4
11.5 Other personnel compensation .....	2	2	2
11.8 Special personal services payments .....	1	1	1
11.9 Total personnel compensation .....	304	337	349
12.1 Civilian personnel benefits .....	111	123	127
21.0 Travel and transportation of persons .....	10	16	16
22.0 Transportation of things .....	1,601	1,613	1,748
23.2 Rental payments to others .....	1	1	1
23.3 Communications, utilities, and miscellaneous charges .....	10	10	11
25.1 Advisory and assistance services .....	126	129	138
25.2 Other services from non-Federal sources .....	165	159	180
25.3 Other goods and services from Federal sources .....	52	53	57
25.4 Operation and maintenance of facilities .....	28	29	31
25.5 Research and development contracts .....	1,498	1,533	1,606
25.7 Operation and maintenance of equipment .....	163	161	178
26.0 Supplies and materials .....	14	14	15
31.0 Equipment .....	18	18	20
32.0 Land and structures .....	12	12	13
41.0 Grants, subsidies, and contributions .....	41	42	45
99.9 Total new obligations, unexpired accounts .....	4,154	4,250	4,535

**Employment Summary**

Identification code 080-0115-0-1-252	2022 actual	2023 est.	2024 est.
1001 Direct civilian full-time equivalent employment .....	2,189	2,322	2,283

**OFFICE OF INSPECTOR GENERAL**

For necessary expenses of the Office of Inspector General in carrying out the Inspector General Act of 1978, [ \$47,600,000, of which \$500,000 shall ] \$50,200,000, to remain available until September 30, [ 2024 ] 2025. (Science Appropriations Act, 2023.)

**Program and Financing** (in millions of dollars)

Identification code 080-0109-0-1-252	2022 actual	2023 est.	2024 est.
<b>Obligations by program activity:</b>			
0001 Office of Inspector General (Direct) .....	44	48	50
0801 Office of Inspector General (Reimbursable) .....	1	1	1
0900 Total new obligations, unexpired accounts .....	45	49	51
<b>Budgetary resources:</b>			
<b>Budget authority:</b>			
<b>Appropriations, discretionary:</b>			
1100 Appropriation .....	45	48	50
<b>Spending authority from offsetting collections, discretionary:</b>			
1700 Collected .....	1	1	1
1900 Budget authority (total) .....	46	49	51
1930 Total budgetary resources available .....	46	49	51
<b>Memorandum (non-add) entries:</b>			
1940 Unobligated balance expiring .....	-1		
<b>Change in obligated balance:</b>			
<b>Unpaid obligations:</b>			
3000 Unpaid obligations, brought forward, Oct 1 .....	7	5	5
3010 New obligations, unexpired accounts .....	45	49	51
3020 Outlays (gross) .....	-47	-49	-51
3050 Unpaid obligations, end of year .....	5	5	5
<b>Memorandum (non-add) entries:</b>			
3100 Obligated balance, start of year .....	7	5	5

3200 Obligated balance, end of year .....	5	5	5
<b>Budget authority and outlays, net:</b>			
<b>Discretionary:</b>			
4000 Budget authority, gross .....	46	49	51
<b>Outlays, gross:</b>			
4010 Outlays from new discretionary authority .....	40	43	45
4011 Outlays from discretionary balances .....	7	6	6
4020 Outlays, gross (total) .....	47	49	51
<b>Offsets against gross budget authority and outlays:</b>			
<b>Offsetting collections (collected) from:</b>			
4030 Federal sources .....	-1	-1	-1
4180 Budget authority, net (total) .....	45	48	50
4190 Outlays, net (total) .....	46	48	50

This appropriation provides for the operations of the NASA Office of Inspector General. The mission of the Office of Inspector General is to conduct audits, investigations, and reviews of agency activities, programs, and personnel to prevent and detect fraud, waste, abuse, and mismanagement, and assist NASA leaders and Congress in promoting economy, efficiency, and effectiveness through its oversight role.

**Object Classification** (in millions of dollars)

Identification code 080-0109-0-1-252	2022 actual	2023 est.	2024 est.
<b>Direct obligations:</b>			
<b>Personnel compensation:</b>			
11.1 Full-time permanent .....	24	27	27
11.3 Other than full-time permanent .....	1	1	1
11.5 Other personnel compensation .....	1	1	1
11.9 Total personnel compensation .....	26	29	29
12.1 Civilian personnel benefits .....	10	11	12
21.0 Travel and transportation of persons .....	1	1	1
25.2 Other services from non-Federal sources .....	1	1	1
25.3 Other goods and services from Federal sources .....	4	4	5
31.0 Equipment .....	2	2	2
99.0 Direct obligations .....	44	48	50
99.0 Reimbursable obligations .....	1	1	1
99.9 Total new obligations, unexpired accounts .....	45	49	51

**Employment Summary**

Identification code 080-0109-0-1-252	2022 actual	2023 est.	2024 est.
1001 Direct civilian full-time equivalent employment .....	176	186	189
2001 Reimbursable civilian full-time equivalent employment .....	4	4	1

**WORKING CAPITAL FUND**

**Program and Financing** (in millions of dollars)

Identification code 080-4546-0-4-252	2022 actual	2023 est.	2024 est.
<b>Obligations by program activity:</b>			
0801 Working Capital Fund (Reimbursable) .....	429	379	379
<b>Budgetary resources:</b>			
<b>Unobligated balance:</b>			
1000 Unobligated balance brought forward, Oct 1 .....	55	42	1
1021 Recoveries of prior year unpaid obligations .....	15	6	6
1070 Unobligated balance (total) .....	70	48	7
<b>Budget authority:</b>			
<b>Spending authority from offsetting collections, discretionary:</b>			
1700 Collected .....	401	332	384
1930 Total budgetary resources available .....	471	380	391
<b>Memorandum (non-add) entries:</b>			
1941 Unexpired unobligated balance, end of year .....	42	1	12
<b>Change in obligated balance:</b>			
<b>Unpaid obligations:</b>			
3000 Unpaid obligations, brought forward, Oct 1 .....	248	202	168
3010 New obligations, unexpired accounts .....	429	379	379
3020 Outlays (gross) .....	-460	-407	-364
3040 Recoveries of prior year unpaid obligations, unexpired .....	-15	-6	-6
3050 Unpaid obligations, end of year .....	202	168	177
<b>Memorandum (non-add) entries:</b>			
3100 Obligated balance, start of year .....	248	202	168

**WORKING CAPITAL FUND—Continued**  
**Program and Financing—Continued**

Identification code 080-4546-0-4-252	2022 actual	2023 est.	2024 est.
3200 Obligated balance, end of year .....	202	168	177
<b>Budget authority and outlays, net:</b>			
Discretionary:			
4000 Budget authority, gross .....	401	332	384
Outlays, gross:			
4010 Outlays from new discretionary authority .....	194	199	230
4011 Outlays from discretionary balances .....	266	208	134
4020 Outlays, gross (total) .....	460	407	364
Offsets against gross budget authority and outlays:			
Offsetting collections (collected) from:			
4030 Federal sources .....	-370	-287	-339
4033 Non-Federal sources .....	-31	-45	-45
4040 Offsets against gross budget authority and outlays (total) ....	-401	-332	-384
4080 Outlays, net (discretionary) .....	59	75	-20
4180 Budget authority, net (total) .....			
4190 Outlays, net (total) .....	59	75	-20

The Working Capital Fund provides goods and services on a reimbursable basis. The Fund currently finances four program activities. The first is the Solutions for Enterprise-wide Procurement program, which finances, on an agency-wide basis, scientific and engineering workstation procurement. The second program is the Information Technology Infrastructure Integration Program, which consolidates and centralizes management of NASA information technology services in the areas of customer service and ordering, web services and technologies, enterprise business and management applications, integrated network/communications services, end user services, and data center services. The third program, NASA's Shared Services Center, performs selected financial management, human resources, information technology, and procurement services for NASA Headquarters and Centers. The last program, the National Center for Critical Information Processing and Storage, provides Federal customers collocation services with complete redundancy in the electrical distribution system from the national grid to the rack level.

In FY 2023, NASA's existing authority under 51 U.S.C. 30102 would be amended to make the Working Capital Fund available for IT Modernization activities and to transfer amounts from NASA's Safety, Security and Mission Services account into the Working Capital Fund to finance such activities.

**Object Classification (in millions of dollars)**

Identification code 080-4546-0-4-252	2022 actual	2023 est.	2024 est.
Reimbursable obligations:			
Personnel compensation:			
11.1 Full-time permanent .....	19	20	20
11.5 Other personnel compensation .....	1	1	1
11.9 Total personnel compensation .....	20	21	21
12.1 Civilian personnel benefits .....	7	7	7
23.2 Rental payments to others .....	1	1	1
23.3 Communications, utilities, and miscellaneous charges .....	19	15	15
25.1 Advisory and assistance services .....	106	122	122
25.2 Other services from non-Federal sources .....	46	36	36
25.3 Other goods and services from Federal sources .....	1	1	1
25.4 Operation and maintenance of facilities .....	16	12	12
25.7 Operation and maintenance of equipment .....	101	78	78
31.0 Equipment .....	92	71	71
32.0 Land and structures .....	30	15	15
99.9 Total new obligations, unexpired accounts .....	429	379	379

**Employment Summary**

Identification code 080-4546-0-4-252	2022 actual	2023 est.	2024 est.
2001 Reimbursable civilian full-time equivalent employment .....	159	164	162

**Trust Funds**

SCIENCE, SPACE, AND TECHNOLOGY EDUCATION TRUST FUND

**Special and Trust Fund Receipts (in millions of dollars)**

Identification code 080-8978-0-7-503	2022 actual	2023 est.	2024 est.
0100 Balance, start of year .....	16	16	16
Receipts:			
Current law:			
1140 Offsetting receipts (intragovernmental) .....	2		1

2000 Total: Balances and receipts .....	18	16	17
Appropriations:			
Current law:			
2101 Appropriations .....	-2		-1
Proposed:			
2201 Appropriations .....			-16
2999 Total appropriations .....	-2		-17
5099 Balance, end of year .....	16	16	

**Program and Financing (in millions of dollars)**

Identification code 080-8978-0-7-503	2022 actual	2023 est.	2024 est.
<b>Obligations by program activity:</b>			
0001 Science, Space, and Technology Education Trust Fund .....		3	1
0900 Total new obligations, unexpired accounts (object class 41.0) .....		3	1
<b>Budgetary resources:</b>			
Unobligated balance:			
1000 Unobligated balance brought forward, Oct 1 .....	1	3	
Budget authority:			
Appropriations, mandatory:			
1201 Appropriation (special or trust fund) .....	2		1
1930 Total budgetary resources available .....	3	3	1
Memorandum (non-add) entries:			
1941 Unexpired unobligated balance, end of year .....	3		

**Change in obligated balance:**

Unpaid obligations:			
3000 Unpaid obligations, brought forward, Oct 1 .....			2
3010 New obligations, unexpired accounts .....		3	1
3020 Outlays (gross) .....		-1	-2
3050 Unpaid obligations, end of year .....		2	1
Memorandum (non-add) entries:			
3100 Obligated balance, start of year .....			2
3200 Obligated balance, end of year .....		2	1

**Budget authority and outlays, net:**

Mandatory:			
4090 Budget authority, gross .....	2		1
Outlays, gross:			
4101 Outlays from mandatory balances .....		1	2
4180 Budget authority, net (total) .....	2		1
4190 Outlays, net (total) .....		1	2

**Memorandum (non-add) entries:**

5000 Total investments, SOY: Federal securities: Par value .....	15	16	16
5001 Total investments, EOY: Federal securities: Par value .....	16	16	16

**Summary of Budget Authority and Outlays (in millions of dollars)**

	2022 actual	2023 est.	2024 est.
Enacted/requested:			
Budget Authority .....	2		1
Outlays .....		1	2
Legislative proposal, subject to PAYGO:			
Budget Authority .....			16
Outlays .....			16
Total:			
Budget Authority .....	2		17
Outlays .....		1	18

SCIENCE, SPACE, AND TECHNOLOGY EDUCATION TRUST FUND

(Legislative proposal, subject to PAYGO)

**Program and Financing (in millions of dollars)**

Identification code 080-8978-4-7-503	2022 actual	2023 est.	2024 est.
<b>Obligations by program activity:</b>			
0001 Science, Space, and Technology Education Trust Fund .....			16
0900 Total new obligations, unexpired accounts (object class 41.0) .....			16
<b>Budgetary resources:</b>			
Budget authority:			
Appropriations, mandatory:			
1201 Appropriation (special or trust fund) .....			16



1930	Total budgetary resources available .....	16
<b>Change in obligated balance:</b>		
Unpaid obligations:		
3010	New obligations, unexpired accounts .....	16
3020	Outlays (gross) .....	-16
<b>Budget authority and outlays, net:</b>		
Mandatory:		
4090	Budget authority, gross .....	16
Outlays, gross:		
4100	Outlays from new mandatory authority .....	16
4180	Budget authority, net (total) .....	16
4190	Outlays, net (total) .....	16
<b>Memorandum (non-add) entries:</b>		
5001	Total investments, EOY: Federal securities: Par value .....	-16

The Administration plans to transmit a legislative proposal to provide the remaining balance of the Science, Space, and Technology Education Trust Fund to the Challenger Center for Space Science Education, in combination with repeal of 51 U.S.C. 40901.

### GENERAL FUND RECEIPT ACCOUNTS

(in millions of dollars)

	2022 actual	2023 est.	2024 est.
Offsetting receipts from the public:			
080-322000 All Other General Fund Proprietary Receipts Including			
Budget Clearing Accounts .....	2	4	4
General Fund Offsetting receipts from the public .....	2	4	4
Intragovernmental payments:			
080-388500 Undistributed Intragovernmental Payments and			
Receivables from Cancelled Accounts .....	1	2	2
General Fund Intragovernmental payments .....	1	2	2

### ADMINISTRATIVE PROVISIONS

(INCLUDING TRANSFERS OF FUNDS)

Funds for any announced prize otherwise authorized shall remain available, without fiscal year limitation, until a prize is claimed or the offer is withdrawn.

Not to exceed 5 percent of any appropriation made available for the current fiscal year for the National Aeronautics and Space Administration in this Act may be transferred between such appropriations, but no such appropriation, except as otherwise specifically provided, shall be

increased by more than 10 percent by any such transfers. Any funds transferred to "Construction and Environmental Compliance and Restoration" for construction activities shall not increase that account by more than 50 percent [and any funds transferred to or within "Exploration" for Exploration Ground Systems shall not increase Exploration Ground Systems by more than \$49,300,000]. Balances so transferred shall be merged with and available for the same purposes and the same time period as the appropriations to which transferred. Any transfer pursuant to this provision shall be treated as a reprogramming of funds under section [505] 504 of this Act and shall not be available for obligation except in compliance with the procedures set forth in that section.

Not to exceed 5 percent of any appropriation provided for the National Aeronautics and Space Administration under previous appropriations Acts that remains available for obligation or expenditure in fiscal year [2023] 2024 may be transferred between such appropriations, but no such appropriation, except as otherwise specifically provided, shall be increased by more than 10 percent by any such transfers. Any transfer pursuant to this provision shall retain its original availability and shall be treated as a reprogramming of funds under section [505] 504 of this Act and shall not be available for obligation except in compliance with the procedures set forth in that section.

The spending plan required by this Act shall be provided by the National Aeronautics and Space Administration at the theme [ ], and program [ ], project, and activity [ ] level. The spending plan, as well as any subsequent change of an amount established in that spending plan that meets the notification requirements of section [505] 504 of this Act, shall be treated as a reprogramming under section [505] 504 of this Act and shall not be available for obligation or expenditure except in compliance with the procedures set forth in that section.

Not more than 20 percent or \$50,000,000, whichever is less, of the amounts made available in the current-year Construction and Environmental Compliance and Restoration (CECR) appropriation may be applied to CECR projects funded under previous years' CECR appropriations. Use of current-year funds under this provision shall be treated as a reprogramming of funds under section [505] 504 of this [act] Act and shall not be available for obligation except in compliance with the procedures set forth in that section.

Of the amounts made available in this Act under the heading "Science, Technology, Engineering, and Mathematics Engagement" ("STEM Engagement"), up to \$5,000,000 shall be available to jointly fund, with an additional amount of up to \$1,000,000 each from amounts made available in this Act under the headings "Science", "Aeronautics", "Space Technology", "Exploration", and "Space Operations", projects and activities for engaging students in STEM and increasing STEM research capacities of universities, including Minority Serving Institutions.

Section 30102(b) of title 51, United States Code, is amended by:

[(1) Redesignating existing paragraph (3) to (4); and]

[(2) Inserting, after paragraph (2), the following:]

["(3) INFORMATION TECHNOLOGY (IT) MODERNIZATION.—The fund shall also be available for the purpose of funding IT Modernization activities, as described in section 1077(b)(3)(A)–(E) of Public Law 115–91, on a non-reimbursable basis.".]

Not to exceed [\$18,162,000] \$32,600,000 made available for the current fiscal year in this Act within "Safety, Security and Mission Services" may be transferred to the Working Capital Fund of the National Aeronautics and Space Administration. Balances so transferred shall be available until expended only for activities described in section 30102(b)(3) of title 51, United States Code, as amended by this Act, and shall remain available until expended. Any transfer pursuant to this provision shall be treated as a reprogramming of funds under section [505] 504 of this Act and shall not be available for obligation except in compliance with the procedures set forth in that section. (*Science Appropriations Act, 2023.*)

