

RDT&E PROGRAMS (R-1)



*Department of Defense Budget
Fiscal Year 2023
April 2022
Office of the Under Secretary of Defense (Comptroller)*

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Preface

The RDT&E Programs (R-1) is derived from and consistent with the Comptroller Information System database.

The R-1 is provided annually to the DoD oversight committees of the Congress coincident with the transmittal of the President's Budget. This document is also provided to Office of Assistance Secretary of Defense (Public Affairs) for use by non-DoD activities, and is available to the public on the Internet at <https://comptroller.defense.gov/>.

Office of the Under Secretary of Defense (Comptroller)

Preparation of the R-1 cost the Department of Defense a total of approximately \$38,000 in FY 2022.

UNCLASSIFIED

UNCLASSIFIED

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UNCLASSIFIED

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TABLE OF CONTENTS

	<u>PAGE</u>
<u>DoD Component Summary</u>	II - IV
<u>Army</u>	
Army Summary	A-1
Army R-1 Detail	A-2 through A-12
<u>Navy</u>	
Navy Summary	N-1
Navy R-1 Detail	N-2 through N-13
<u>Air Force</u>	
Air Force Summary	F-1
Air Force R-1 Detail	F-2 through F-19
<u>Defense Agencies</u>	
Defensewide Summary	D-1 & D-2
Defensewide R-1 Detail	D-3 through D-15
Operational Test and Evaluation Summary	D-16
Operational Test and Evaluation R-1 Detail	D-17
Individual Defense Agency R-1 Detail	D-18 through D-50

UNCLASSIFIED

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UNCLASSIFIED

UNCLASSIFIED

Department of Defense
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

<u>Appropriation</u>	<u>FY 2021 (Base + OCO)</u>	<u>FY 2022 Enactment*</u>	<u>FY 2023 Request</u>
Research, Development, Test & Eval, Army	14,197,238	14,528,259	13,710,273
Research, Development, Test & Eval, Navy	20,151,249	22,152,438	24,078,718
Research, Development, Test & Eval, AF	36,022,139	41,640,413	44,134,301
RDTE, Space Force	10,506,868	11,597,405	15,819,372
Research, Development, Test & Eval, DW	25,998,380	29,099,203	32,077,552
Operational Test & Eval, Defense	257,120	276,591	277,194
Total Research, Development, Test & Evaluation	107,132,994	119,294,309	130,097,410
 <u>Other RDT&E Budget Activities Not Included in the Research, Development, Test and Evaluation Title</u>			
Office of the Inspector General	1,098	2,365	1,864
Defense Health Program	2,395,081	2,633,488	909,994
Chem Agents & Munitions Destruction	942,493	1,000,131	975,206
National Defense Sealift Fund	57		
Total Not in Research, Development, Test & Evaluation Title	3,338,729	3,635,984	1,887,064

*Includes \$130,345K enacted funding pursuant to the Ukraine Supplemental Appropriation Act (Public Law 117-103) in RDT&E Navy, AF and DW.

UNCLASSIFIED

Department of Defense
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

<u>Summary Recap of Budget Activities</u>	<u>FY 2021 (Base + OCO)</u>	<u>FY 2022 Enactment</u>	<u>FY 2023 Request</u>
Basic Research	2,528,415	2,757,620	2,375,872
Applied Research	6,323,178	6,905,991	5,791,097
Advanced Technology Development	7,515,640	9,171,612	8,287,707
Advanced Component Development & Prototypes	27,357,689	32,796,042	34,198,264
System Development & Demonstration	15,334,733	15,080,312	23,426,644
Management Support	9,383,512	8,378,049	8,252,684
Operational Systems Development	38,101,855	43,462,867	45,980,345
Software and Digital Technology Pilot Programs	587,972	741,816	1,784,797
Total Research, Development, Test & Evaluation	107,132,994	119,294,309	130,097,410
 <u>Summary Recap of FYDP Programs</u>			
Strategic Forces	1,140,591	1,484,929	1,683,784
General Purpose Forces	5,823,023	6,820,399	7,029,934
Intelligence and Communications	3,346,862	3,230,803	3,397,536
Mobility Forces	886,208	825,887	765,678
Research and Development	62,083,928	67,747,907	73,002,153
Central Supply and Maintenance	305,950	314,307	192,543
Training Medical and Other	36,404	48,163	66,106
Administration and Associated Activities	101,440	118,106	60,034
Support of Other Nations	3,592	2,420	2,593
Special Operations Forces	806,596	850,263	816,413
Space	7,470,266	8,725,640	11,000,689
Classified Programs	25,128,134	29,125,485	32,079,947
Total Research, Development, Test & Evaluation	107,132,994	119,294,309	130,097,410

UNCLASSIFIED

Page III

UNCLASSIFIED

Department of Defense
FY 2023 President's Budget
Exhibit R-1 FY 2023 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Apr 2022

	<u>FY 2021</u> <u>(Base + OCO)</u>	<u>FY 2022</u> <u>Enactment</u>	<u>FY 2023</u> <u>Request</u>
<u>Summary Recap of Non-RDT&E Title FYDP Programs</u>			
Mobility Forces	57		
Research and Development	2,395,081	2,633,488	909,994
Central Supply and Maintenance	942,493	1,000,131	975,206
Administration and Associated Activities	1,098	2,365	1,864
Total Research, Development, Test & Evaluation	3,338,729	3,635,984	1,887,064

UNCLASSIFIED

Page IV

UNCLASSIFIED

Department of the Army
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

<u>Summary Recap of Budget Activities</u>	<u>FY 2021</u> <u>(Base + OCO)</u>	<u>FY 2022</u> <u>Enactment</u>	<u>FY 2023</u> <u>Request</u>
Basic Research	552,521	606,509	466,823
Applied Research	1,518,220	1,529,888	883,759
Advanced Technology Development	1,948,792	2,190,430	1,392,065
Advanced Component Development & Prototypes	3,589,313	3,818,276	4,098,749
System Development & Demonstration	2,979,946	3,254,230	4,031,334
Management Support	1,832,049	1,553,905	1,554,252
Operational Systems Development	1,719,691	1,466,180	1,188,403
Software and Digital Technology Pilot Programs	56,706	108,841	94,888
Total Research, Development, Test & Evaluation	14,197,238	14,528,259	13,710,273
<u>Summary Recap of FYDP Programs</u>			
General Purpose Forces	589,523	579,473	392,489
Intelligence and Communications	372,869	275,873	210,597
Research and Development	13,099,825	13,566,200	13,009,253
Central Supply and Maintenance	130,785	103,720	91,270
Administration and Associated Activities	253		
Classified Programs	3,983	2,993	6,664
Total Research, Development, Test & Evaluation	14,197,238	14,528,259	13,710,273

UNCLASSIFIED

Department of the Army
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 2040A Research, Development, Test & Eval, Army

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Se c
1	0601102A	Defense Research Sciences	01	344,031	368,751	279,328	U
2	0601103A	University Research Initiatives	01	84,697	91,241	70,775	U
3	0601104A	University and Industry Research Centers	01	118,716	126,267	100,909	U
4	0601121A	Cyber Collaborative Research Alliance	01	5,077	5,067	5,355	U
5	0601601A	Artificial Intelligence and Machine Learning Basic Research	01		15,183	10,456	U
		Basic Research		552,521	606,509	466,823	
6	0602002A	Army Agile Innovation and Development-Applied Research	02			9,534	U
7	0602115A	Biomedical Technology	02	11,403	11,925		U
8	0602134A	Counter Improvised-Threat Advanced Studies	02	1,927	1,976	6,192	U
9	0602141A	Lethality Technology	02	117,484	91,626	87,717	U
10	0602142A	Army Applied Research	02	29,257	28,654	27,833	U
11	0602143A	Soldier Lethality Technology	02	201,511	205,058	103,839	U
12	0602144A	Ground Technology	02	159,358	216,550	52,848	U
13	0602145A	Next Generation Combat Vehicle Technology	02	258,341	245,525	174,090	U
14	0602146A	Network C3I Technology	02	202,256	164,804	64,115	U
15	0602147A	Long Range Precision Fires Technology	02	119,007	93,785	43,029	U
16	0602148A	Future Verticle Lift Technology	02	169,536	133,158	69,348	U
17	0602150A	Air and Missile Defense Technology	02	107,584	93,549	27,016	U
18	0602180A	Artificial Intelligence and Machine Learning Technologies	02		15,034	16,454	U
19	0602181A	All Domain Convergence Applied Research	02		25,967	27,399	U
20	0602182A	C3I Applied Research	02		12,406	27,892	U
21	0602183A	Air Platform Applied Research	02		6,597	41,588	U

UNCLASSIFIED

Department of the Army
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 2040A Research, Development, Test & Eval, Army

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Se c
22	0602184A	Soldier Applied Research	02		11,064	15,716	U
23	0602213A	C3I Applied Cyber	02	18,816	12,119	13,605	U
24	0602386A	Biotechnology for Materials - Applied Research	02		20,643	21,919	U
25	0602785A	Manpower/Personnel/Training Technology	02	20,399	18,701	19,649	U
26	0602787A	Medical Technology	02	101,341	120,747	33,976	U
		Applied Research		1,518,220	1,529,888	883,759	
27	0603002A	Medical Advanced Technology	03	95,146	137,804	5,207	U
28	0603007A	Manpower, Personnel and Training Advanced Technology	03	11,344	14,273	15,598	U
29	0603025A	Army Agile Innovation and Demonstration	03		22,231	20,900	U
30	0603040A	Artificial Intelligence and Machine Learning Advanced Technologies	03		909	6,395	U
31	0603041A	All Domain Convergence Advanced Technology	03		17,743	45,463	U
32	0603042A	C3I Advanced Technology	03		3,151	12,716	U
33	0603043A	Air Platform Advanced Technology	03		754	17,946	U
34	0603044A	Soldier Advanced Technology	03		890	479	U
35	0603115A	Medical Development	03	26,711	26,508		U
36	0603116A	Lethality Advanced Technology	03		8,066	9,796	U
37	0603117A	Army Advanced Technology Development	03	64,163	76,815	134,874	U
38	0603118A	Soldier Lethality Advanced Technology	03	154,161	152,369	100,935	U
39	0603119A	Ground Advanced Technology	03	196,055	280,490	32,546	U
40	0603134A	Counter Improvised-Threat Simulation	03	24,087	24,747	21,486	U
41	0603386A	Biotechnology for Materials - Advanced Research	03		53,736	56,853	U
42	0603457A	C3I Cyber Advanced Development	03	43,357	61,426	41,354	U

Page A-3

UNCLASSIFIED

UNCLASSIFIED

Department of the Army
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 2040A Research, Development, Test & Eval, Army

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Sec
43	0603461A	High Performance Computing Modernization Program	03	221,161	229,123	251,964	U
44	0603462A	Next Generation Combat Vehicle Advanced Technology	03	309,860	299,712	193,242	U
45	0603463A	Network C3I Advanced Technology	03	215,337	211,068	125,565	U
46	0603464A	Long Range Precision Fires Advanced Technology	03	177,142	141,909	100,830	U
47	0603465A	Future Vertical Lift Advanced Technology	03	220,334	261,880	177,836	U
48	0603466A	Air and Missile Defense Advanced Technology	03	173,244	145,826	11,147	U
49	0603920A	Humanitarian Demining	03	16,690	19,000	8,933	U
Advanced Technology Development				1,948,792	2,190,430	1,392,065	
50	0603305A	Army Missile Defense Systems Integration	04	139,518	56,702	12,001	U
51	0603308A	Army Space Systems Integration	04	25,584	25,755	17,945	U
52	0603327A	Air and Missile Defense Systems Engineering	04	47,098	15,000		U
53	0603619A	Landmine Warfare and Barrier - Adv Dev	04	56,067	46,637	64,001	U
54	0603639A	Tank and Medium Caliber Ammunition	04	106,881	73,844	64,669	U
55	0603645A	Armored System Modernization - Adv Dev	04	130,485	164,328	49,944	U
56	0603747A	Soldier Support and Survivability	04	5,312	2,897	4,060	U
57	0603766A	Tactical Electronic Surveillance System - Adv Dev	04	182,400	113,365	72,314	U
58	0603774A	Night Vision Systems Advanced Development	04	15,179	62,820	18,048	U
59	0603779A	Environmental Quality Technology - Dem/Val	04	20,906	22,921	31,249	U
60	0603790A	NATO Research and Development	04	4,589	3,777	3,805	U
61	0603801A	Aviation - Adv Dev	04	694,296	1,178,460	1,162,344	U
62	0603804A	Logistics and Engineer Equipment - Adv Dev	04	15,287	11,055	9,638	U
63	0603807A	Medical Systems - Adv Dev	04	36,006	37,053	598	U

UNCLASSIFIED

Page A-4

UNCLASSIFIED

Department of the Army
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 2040A Research, Development, Test & Eval, Army

<u>Line No</u>	<u>Program Element Number</u>	<u>Item</u>	<u>Act</u>	<u>FY 2021 (Base + OCO)</u>	<u>FY 2022 Enactment</u>	<u>FY 2023 Request</u>	<u>S e c</u>
64	0603827A	Soldier Systems - Advanced Development	04	23,905	25,925	25,971	U
65	0604017A	Robotics Development	04	92,401	80,525	26,594	U
66	0604019A	Expanded Mission Area Missile (EMAM)	04		27,872	220,820	U
67	0604020A	Cross Functional Team (CFT) Advanced Development & Prototyping	04			106,000	U
68	0604021A	Electronic Warfare Technology Maturation (MIP)	04	15,034			U
69	0604035A	Low Earth Orbit (LEO) Satellite Capability	04	21,850	19,638	35,509	U
70	0604036A	Multi-Domain Sensing System (MDSS) Adv Dev	04		50,548	49,932	U
71	0604037A	Tactical Intel Targeting Access Node (TITAN) Adv Dev	04		28,347	863	U
72	0604100A	Analysis Of Alternatives	04	9,714	10,091	10,659	U
73	0604101A	Small Unmanned Aerial Vehicle (SUAV) (6.4)	04	1,328	926	1,425	U
74	0604113A	Future Tactical Unmanned Aircraft System (FTUAS)	04	59,183	76,349	95,719	U
75	0604114A	Lower Tier Air Missile Defense (LTAMD) Sensor	04	308,805	297,629	382,147	U
76	0604115A	Technology Maturation Initiatives	04	141,109	132,561	269,756	U
77	0604117A	Maneuver - Short Range Air Defense (M-SHORAD)	04	5,776	39,376	225,147	U
78	0604119A	Army Advanced Component Development & Prototyping	04	167,990	189,483	198,111	U
79	0604120A	Assured Positioning, Navigation and Timing (PNT)	04	115,688	83,952	43,797	U
80	0604121A	Synthetic Training Environment Refinement & Prototyping	04	112,093	206,335	166,452	U
81	0604134A	Counter Improvised-Threat Demonstration, Prototype Development, and Testing	04	13,326	13,379	15,840	U
82	0604135A	Strategic Mid-Range Fires	04			404,291	U
83	0604182A	Hypersonics	04	841,666	315,131	173,168	U
84	0604403A	Future Interceptor	04		6,895	8,179	U
85	0604531A	Counter - Small Unmanned Aircraft Systems Advanced Development	04		19,148	35,110	U

Page A-5

UNCLASSIFIED

UNCLASSIFIED

Department of the Army
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 2040A Research, Development, Test & Eval, Army

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Se c
86	0604541A	Unified Network Transport	04	39,192	35,172	36,966	U
87	0604644A	Mobile Medium Range Missile	04	88,100	286,445		U
88	0604785A	Integrated Base Defense (Budget Activity 4)	04	2,020	2,040		U
89	0305251A	Cyberspace Operations Forces and Force Support	04	50,525	55,895	55,677	U
Advanced Component Development & Prototypes				3,589,313	3,818,276	4,098,749	
90	0604201A	Aircraft Avionics	05	7,011	6,654	3,335	U
91	0604270A	Electronic Warfare Development	05	56,624	30,840	4,243	U
92	0604601A	Infantry Support Weapons	05	89,497	79,339	66,529	U
93	0604604A	Medium Tactical Vehicles	05	8,213	9,524	22,163	U
94	0604611A	JAVELIN	05	5,983	7,094	7,870	U
95	0604622A	Family of Heavy Tactical Vehicles	05	22,254	28,445	50,924	U
96	0604633A	Air Traffic Control	05	3,383	4,405	2,623	U
97	0604641A	Tactical Unmanned Ground Vehicle (TUGV)	05			115,986	U
98	0604642A	Light Tactical Wheeled Vehicles	05	4,371	2,055		U
99	0604645A	Armored Systems Modernization (ASM) - Eng Dev	05	123,992	122,778	71,287	U
100	0604710A	Night Vision Systems - Eng Dev	05	52,959	43,417	62,679	U
101	0604713A	Combat Feeding, Clothing, and Equipment	05	2,734	1,658	1,566	U
102	0604715A	Non-System Training Devices - Eng Dev	05	27,013	26,514	18,600	U
103	0604741A	Air Defense Command, Control and Intelligence - Eng Dev	05	62,058	59,518	39,541	U
104	0604742A	Constructive Simulation Systems Development	05	9,779	22,240	29,570	U
105	0604746A	Automatic Test Equipment Development	05	5,375	8,807	5,178	U
106	0604760A	Distributive Interactive Simulations (DIS) - Eng Dev	05	7,605	12,453	8,189	U

UNCLASSIFIED

Page A-6

UNCLASSIFIED

Department of the Army
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 2040A Research, Development, Test & Eval, Army

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Sec
107	0604768A	Brilliant Anti-Armor Submunition (BAT)	05	20,175			U
108	0604780A	Combined Arms Tactical Trainer (CATT) Core	05	3,438			U
109	0604798A	Brigade Analysis, Integration and Evaluation	05	18,737	21,423	21,228	U
110	0604802A	Weapons and Munitions - Eng Dev	05	277,344	297,086	263,778	U
111	0604804A	Logistics and Engineer Equipment - Eng Dev	05	53,676	54,642	41,669	U
112	0604805A	Command, Control, Communications Systems - Eng Dev	05	10,674	20,107	40,038	U
113	0604807A	Medical Materiel/Medical Biological Defense Equipment - Eng Dev	05	48,285	44,400	5,513	U
114	0604808A	Landmine Warfare/Barrier - Eng Dev	05	9,239	29,137	12,150	U
115	0604818A	Army Tactical Command & Control Hardware & Software	05	126,676	155,017	111,690	U
116	0604820A	Radar Development	05	105,271	122,607	71,259	U
117	0604822A	General Fund Enterprise Business System (GFEBs)	05	15,428	15,979	10,402	U
118	0604823A	Firefinder	05	18,278			U
119	0604827A	Soldier Systems - Warrior Dem/Val	05	6,546	6,454	11,425	U
120	0604852A	Suite of Survivability Enhancement Systems - EMD	05	62,012	96,132	109,702	U
121	0604854A	Artillery Systems - EMD	05	36,187	25,000	23,106	U
122	0605013A	Information Technology Development	05	123,659	129,380	124,475	U
123	0605018A	Integrated Personnel and Pay System-Army (IPPS-A)	05	111,078	67,701	67,564	U
124	0605028A	Armored Multi-Purpose Vehicle (AMPV)	05	76,140	35,560		U
125	0605030A	Joint Tactical Network Center (JTNC)	05	15,671	16,350	17,950	U
126	0605031A	Joint Tactical Network (JTN)	05	30,540	28,905	30,169	U
127	0605033A	Ground-Based Operational Surveillance System - Expeditionary (GBOSS-E)	05	5,758			U
128	0605035A	Common Infrared Countermeasures (CIRCM)	05	29,770	16,630	11,523	U

Page A-7

UNCLASSIFIED

UNCLASSIFIED

Department of the Army
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 2040A Research, Development, Test & Eval, Army

<u>Line No</u>	<u>Program Element Number</u>	<u>Item</u>	<u>Act</u>	<u>FY 2021 (Base + OCO)</u>	<u>FY 2022 Enactment</u>	<u>FY 2023 Request</u>	<u>S e c</u>
129	0605038A	Nuclear Biological Chemical Reconnaissance Vehicle (NBCRV) Sensor Suite	05	4,669	7,618		U
130	0605041A	Defensive CYBER Tool Development	05	28,544	18,811	33,029	U
131	0605042A	Tactical Network Radio Systems (Low-Tier)	05	20,511	28,741	4,497	U
132	0605047A	Contract Writing System	05	22,025	20,960	23,487	U
133	0605051A	Aircraft Survivability Development	05	99,403	61,768	19,123	U
134	0605052A	Indirect Fire Protection Capability Inc 2 - Block 1	05	152,399	182,257	131,093	U
135	0605053A	Ground Robotics	05	12,010	16,360	26,809	U
136	0605054A	Emerging Technology Initiatives	05	294,366	226,802	185,311	U
137	0605143A	Biometrics Enabling Capability (BEC)	05		4,326	11,091	U
138	0605144A	Next Generation Load Device - Medium	05		15,397	22,439	U
139	0605145A	Medical Products and Support Systems Development	05	919	962		U
140	0605148A	Tactical Intel Targeting Access Node (TITAN) EMD	05		54,972	58,087	U
141	0605203A	Army System Development & Demonstration	05	177,501	122,175	119,516	U
142	0605205A	Small Unmanned Aerial Vehicle (SUAV) (6.5)	05	5,780	2,275	6,530	U
143	0605224A	Multi-Domain Intelligence	05		9,313	19,911	U
144	0605225A	SIO Capability Development	05		22,713		U
145	0605231A	Precision Strike Missile (PrSM)	05		188,452	259,506	U
146	0605232A	Hypersonics EMD	05		111,473	633,499	U
147	0605233A	Accessions Information Environment (AIE)	05		16,790	13,647	U
148	0605235A	Strategic Mid-Range Capability	05			5,016	U
149	0605236A	Integrated Tactical Communications	05			12,447	U
150	0605450A	Joint Air-to-Ground Missile (JAGM)	05	7,566	2,134	2,366	U

Page A-8

UNCLASSIFIED

UNCLASSIFIED

Department of the Army
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 2040A Research, Development, Test & Eval, Army

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Se
151	0605457A	Army Integrated Air and Missile Defense (AIAMD)	05	213,956	159,873	265,288	U
152	0605531A	Counter - Small Unmanned Aircraft Systems Sys Dev & Demonstration	05		33,386	14,892	U
153	0605625A	Manned Ground Vehicle	05	162,390	202,320	589,762	U
154	0605766A	National Capabilities Integration (MIP)	05	7,670	13,454	17,030	U
155	0605812A	Joint Light Tactical Vehicle (JLTV) Engineering and Manufacturing Development Ph	05	1,500	2,564	9,376	U
156	0605830A	Aviation Ground Support Equipment	05	1,413	1,201	2,959	U
157	0303032A	TROJAN - RH12	05	3,451	3,362	3,761	U
158	0303667A	Citizen Broadband Radio System	05	900			U
159	0303767A	AMBIT - Pre-Auctioned SRF	05	9,785			U
160	0304270A	Electronic Warfare Development	05	59,755	75,520	56,938	U
System Development & Demonstration				2,979,946	3,254,230	4,031,334	
161	0604256A	Threat Simulator Development	06	41,487	61,422	18,437	U
162	0604258A	Target Systems Development	06	35,279	42,404	19,132	U
163	0604759A	Major T&E Investment	06	119,231	93,617	107,706	U
164	0605103A	Rand Arroyo Center	06	12,989	32,296	35,542	U
165	0605301A	Army Kwajalein Atoll	06	221,949	240,877	309,005	U
166	0605326A	Concepts Experimentation Program	06	46,847	79,585	87,122	U
167	0605502A	Small Business Innovative Research	06	369,715			U
168	0605601A	Army Test Ranges and Facilities	06	390,366	367,125	401,643	U
169	0605602A	Army Technical Test Instrumentation and Targets	06	81,829	59,253	37,962	U
170	0605604A	Survivability/Lethality Analysis	06	36,001	36,370	36,500	U
171	0605606A	Aircraft Certification	06	2,736	2,489	2,777	U

UNCLASSIFIED

Department of the Army
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 2040A Research, Development, Test & Eval, Army

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Sec
172	0605702A	Meteorological Support to RDT&E Activities	06	6,360	6,521	6,958	U
173	0605706A	Materiel Systems Analysis	06	21,830	21,558	22,037	U
174	0605709A	Exploitation of Foreign Items	06	8,936	13,631	6,186	U
175	0605712A	Support of Operational Testing	06	54,116	55,122	70,718	U
176	0605716A	Army Evaluation Center	06	56,827	65,854	67,058	U
177	0605718A	Army Modeling & Sim X-Cmd Collaboration & Integ	06	2,478	2,633	6,097	U
178	0605801A	Programwide Activities	06	89,023	96,558	89,793	U
179	0605803A	Technical Information Activities	06	25,817	31,987	28,752	U
180	0605805A	Munitions Standardization, Effectiveness and Safety	06	50,648	63,042	48,316	U
181	0605857A	Environmental Quality Technology Mgmt Support	06	1,715	1,789	1,912	U
182	0605898A	Army Direct Report Headquarters - R&D - MHA	06	50,859	48,981	53,271	U
183	0606002A	Ronald Reagan Ballistic Missile Defense Test Site	06	74,089	80,921	90,088	U
184	0606003A	CounterIntel and Human Intel Modernization	06	5,200	5,363	1,424	U
185	0606105A	Medical Program-Wide Activities	06	18,973	39,041		U
186	0606942A	Assessments and Evaluations Cyber Vulnerabilities	06	6,496	5,466	5,816	U
187	0909999A	Financing for Cancelled Account Adjustments	06	253			U
		Management Support		1,832,049	1,553,905	1,554,252	
188	0603778A	MLRS Product Improvement Program	07	9,785	12,314	18,463	U
189	0605024A	Anti-Tamper Technology Support	07	8,436	8,868	9,284	U
190	0607131A	Weapons and Munitions Product Improvement Programs	07	24,666	35,828	11,674	U
191	0607134A	Long Range Precision Fires (LRPF)	07	100,146			U
192	0607136A	Blackhawk Product Improvement Program	07	8,300	14,773		U

UNCLASSIFIED

Department of the Army
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 2040A Research, Development, Test & Eval, Army

<u>Line No</u>	<u>Program Element Number</u>	<u>Item</u>	<u>Act</u>	<u>FY 2021 (Base + OCO)</u>	<u>FY 2022 Enactment</u>	<u>FY 2023 Request</u>	<u>S e c</u>
193	0607137A	Chinook Product Improvement Program	07	49,409	67,872	52,513	U
194	0607139A	Improved Turbine Engine Program	07	232,159	260,024	228,036	U
195	0607142A	Aviation Rocket System Product Improvement and Development	07	11,321	12,417	11,312	U
196	0607143A	Unmanned Aircraft System Universal Products	07	19,460	4,594	512	U
197	0607145A	Apache Future Development	07	52,502	10,067	10,074	U
198	0607148A	AN/TPQ-53 Counterfire Target Acquisition Radar System	07		47,752	62,559	U
199	0607150A	Intel Cyber Development	07	14,652	3,611	13,343	U
200	0607312A	Army Operational Systems Development	07	35,851	28,029	26,131	U
201	0607313A	Electronic Warfare Development	07		5,673	6,432	U
202	0607665A	Family of Biometrics	07	1,276	1,144	1,114	U
203	0607865A	Patriot Product Improvement	07	178,984	125,932	152,312	U
204	0203728A	Joint Automated Deep Operation Coordination System (JADOCS)	07	43,060	25,489	19,329	U
205	0203735A	Combat Vehicle Improvement Programs	07	213,726	280,107	192,310	U
206	0203743A	155mm Self-Propelled Howitzer Improvements	07	217,959	175,076	136,680	U
207	0203744A	Aircraft Modifications/Product Improvement Programs	07	11,261	10,000		U
208	0203752A	Aircraft Engine Component Improvement Program	07	80	132	148	U
209	0203758A	Digitization	07	4,351	3,903	2,100	U
210	0203801A	Missile/Air Defense Product Improvement Program	07	1,241	127	3,109	U
211	0203802A	Other Missile Product Improvement Programs	07	15,268	10,265	9,027	U
212	0205412A	Environmental Quality Technology - Operational System Dev	07	250	262	793	U
213	0205778A	Guided Multiple-Launch Rocket System (GMLRS)	07	72,817	60,733	20,180	U
214	0208053A	Joint Tactical Ground System	07	9,510	13,379	8,813	U

UNCLASSIFIED

Page A-11

UNCLASSIFIED

Department of the Army
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 2040A Research, Development, Test & Eval, Army

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Sec
216	0303028A	Security and Intelligence Activities	07	23,367	24,531		U
217	0303140A	Information Systems Security Program	07	28,270	15,680	17,209	U
218	0303141A	Global Combat Support System	07	70,652	45,297	27,100	U
219	0303142A	SATCOM Ground Environment (SPACE)	07	18,002	15,222	18,321	U
222	0305179A	Integrated Broadcast Service (IBS)	07	382	5,430	9,926	U
223	0305204A	Tactical Unmanned Aerial Vehicles	07	38,151	8,410	4,500	U
224	0305206A	Airborne Reconnaissance Systems	07	28,858	24,460	17,165	U
225	0305208A	Distributed Common Ground/Surface Systems	07	40,771			U
226	0307665A	Biometrics Enabled Intelligence	07		2,066		U
227	0708045A	End Item Industrial Preparedness Activities	07	130,785	103,720	91,270	U
9999	9999999999	Classified Programs		3,983	2,993	6,664	U
		Operational Systems Development		1,719,691	1,466,180	1,188,403	
228	0608041A	Defensive CYBER - Software Prototype Development	08	56,706	108,841	94,888	U
		Software and Digital Technology Pilot Programs		56,706	108,841	94,888	
Total Research, Development, Test & Eval, Army				14,197,238	14,528,259	13,710,273	

UNCLASSIFIED

Department of the Navy
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

<u>Summary Recap of Budget Activities</u>	<u>FY 2021 (Base + OCO)</u>	<u>FY 2022 Enactment</u>	<u>FY 2023 Request</u>
Basic Research	629,356	698,222	589,192
Applied Research	1,139,067	1,283,117	971,814
Advanced Technology Development	812,483	976,202	865,755
Advanced Component Development & Prototypes	5,315,053	6,882,455	8,405,310
System Development & Demonstration	5,734,697	5,574,543	6,606,583
Management Support	1,469,017	1,078,994	1,132,670
Operational Systems Development	5,027,213	5,630,359*	5,483,386
Software and Digital Technology Pilot Programs	24,363	28,546	24,008
Total Research, Development, Test & Evaluation	20,151,249	22,152,438	24,078,718
 <u>Summary Recap of FYDP Programs</u>			
Strategic Forces	243,178	327,788	466,102
General Purpose Forces	1,585,036	1,600,974	1,739,645
Intelligence and Communications	788,430	623,802	656,960
Research and Development	15,636,466	17,431,792	19,484,008
Central Supply and Maintenance	41,841	41,359	28,381
Administration and Associated Activities	3,189	1,747	1,811
Space	35,128		
Classified Programs	1,817,981	2,124,976	1,701,811
Total Research, Development, Test & Evaluation	20,151,249	22,152,438	24,078,718

*Includes \$31,100K enacted funding pursuant to the Ukraine Supplemental Appropriation Act (Public Law 117-103).

UNCLASSIFIED

Department of the Navy
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 1319N Research, Development, Test & Eval, Navy

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Sec
1	0601103N	University Research Initiatives	01	139,627	174,898	90,076	U
2	0601152N	In-House Laboratory Independent Research	01	18,362			U
3	0601153N	Defense Research Sciences	01	471,367	523,324	499,116	U
Basic Research				629,356	698,222	589,192	
4	0602114N	Power Projection Applied Research	02	37,925	43,013	22,953	U
5	0602123N	Force Protection Applied Research	02	203,609	222,388	133,426	U
6	0602131M	Marine Corps Landing Force Technology	02	53,711	64,112	53,467	U
7	0602235N	Common Picture Applied Research	02	42,219	51,477	51,911	U
8	0602236N	Warfighter Sustainment Applied Research	02	112,119	117,738	70,957	U
9	0602271N	Electromagnetic Systems Applied Research	02	89,516	91,041	92,444	U
10	0602435N	Ocean Warfighting Environment Applied Research	02	77,935	103,586	74,622	U
11	0602651M	Joint Non-Lethal Weapons Applied Research	02	6,150	6,405	6,700	U
12	0602747N	Undersea Warfare Applied Research	02	93,280	107,734	58,111	U
13	0602750N	Future Naval Capabilities Applied Research	02	165,813	198,233	173,641	U
14	0602782N	Mine and Expeditionary Warfare Applied Research	02	33,228	42,160	31,649	U
15	0602792N	Innovative Naval Prototypes (INP) Applied Research	02	146,926	155,976	120,637	U
16	0602861N	Science and Technology Management - ONR Field Activities	02	76,636	79,254	81,296	U
Applied Research				1,139,067	1,283,117	971,814	
17	0603123N	Force Protection Advanced Technology	03	26,648	36,161	16,933	U
18	0603271N	Electromagnetic Systems Advanced Technology	03	22,267	12,146	8,253	U
19	0603640M	USMC Advanced Technology Demonstration (ATD)	03	242,160	291,183	280,285	U
20	0603651M	Joint Non-Lethal Weapons Technology Development	03	12,882	13,429	14,048	U

UNCLASSIFIED

Department of the Navy
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 1319N Research, Development, Test & Eval, Navy

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Se c
21	0603673N	Future Naval Capabilities Advanced Technology Development	03	221,954	282,020	251,267	U
22	0603680N	Manufacturing Technology Program	03	58,437	77,236	60,704	U
23	0603729N	Warfighter Protection Advanced Technology	03	31,978	40,435	4,999	U
24	0603758N	Navy Warfighting Experiments and Demonstrations	03	39,540	60,167	83,137	U
25	0603782N	Mine and Expeditionary Warfare Advanced Technology	03	1,905	1,981	2,007	U
26	0603801N	Innovative Naval Prototypes (INP) Advanced Technology Development	03	154,712	161,444	144,122	U
		Advanced Technology Development		812,483	976,202	865,755	
27	0603128N	Unmanned Aerial System	04		16,167	96,883	U
28	0603178N	Large Unmanned Surface Vehicles (LUSV)	04	89,198	102,493	146,840	U
29	0603207N	Air/Ocean Tactical Applications	04	33,933	27,849	39,737	U
30	0603216N	Aviation Survivability	04	13,242	24,815	17,434	U
31	0603239N	Naval Construction Forces	04	2,251	5,290	1,706	U
32	0603251N	Aircraft Systems	04	481			U
33	0603254N	ASW Systems Development	04	18,029	20,598	15,986	U
34	0603261N	Tactical Airborne Reconnaissance	04	3,411	3,111	3,562	U
35	0603382N	Advanced Combat Systems Technology	04	55,364	35,310	18,628	U
36	0603502N	Surface and Shallow Water Mine Countermeasures	04	46,005	53,327	87,825	U
37	0603506N	Surface Ship Torpedo Defense	04	11,620	8,862	473	U
38	0603512N	Carrier Systems Development	04	7,406	7,182	11,567	U
39	0603525N	PILOT FISH	04	308,636	405,917	672,461	U
40	0603527N	RETRACT LARCH	04	48,391	44,076	7,483	U
41	0603536N	RETRACT JUNIPER	04	117,875	144,349	239,336	U

Page N-3

UNCLASSIFIED

UNCLASSIFIED

Department of the Navy
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 1319N Research, Development, Test & Eval, Navy

<u>Line No</u>	<u>Program Element Number</u>	<u>Item</u>	<u>Act</u>	<u>FY 2021 (Base + OCO)</u>	<u>FY 2022 Enactment</u>	<u>FY 2023 Request</u>	<u>Se</u>
42	0603542N	Radiological Control	04	745	761	772	U
43	0603553N	Surface ASW	04	1,113	1,144	1,180	U
44	0603561N	Advanced Submarine System Development	04	120,501	98,921	105,703	U
45	0603562N	Submarine Tactical Warfare Systems	04	10,293	14,059	10,917	U
46	0603563N	Ship Concept Advanced Design	04	121,491	136,074	82,205	U
47	0603564N	Ship Preliminary Design & Feasibility Studies	04	45,398	40,774	75,327	U
48	0603570N	Advanced Nuclear Power Systems	04	149,188	203,572	227,400	U
49	0603573N	Advanced Surface Machinery Systems	04	39,144	76,922	176,600	U
50	0603576N	CHALK EAGLE	04	56,443	79,797	91,584	U
51	0603581N	Littoral Combat Ship (LCS)	04	40,731	82,518	96,444	U
52	0603582N	Combat System Integration	04	17,273	17,322	18,236	U
53	0603595N	Ohio Replacement	04	308,433	311,231	335,981	U
54	0603596N	LCS Mission Modules	04	75,933	75,995	41,533	U
55	0603597N	Automated Test and Re-Test (ATRT)	04	33,641	37,805	9,773	U
56	0603599N	Frigate Development	04	79,963	100,203	118,626	U
57	0603609N	Conventional Munitions	04	9,505	7,296	9,286	U
58	0603635M	Marine Corps Ground Combat/Support System	04	42,194	66,565	111,431	U
59	0603654N	Joint Service Explosive Ordnance Development	04	56,569	34,785	36,496	U
60	0603713N	Ocean Engineering Technology Development	04	6,137	8,774	6,193	U
61	0603721N	Environmental Protection	04	20,034	20,677	21,647	U
62	0603724N	Navy Energy Program	04	54,749	66,824	60,320	U
63	0603725N	Facilities Improvement	04	4,527	6,327	5,664	U

UNCLASSIFIED

Page N-4

UNCLASSIFIED

Department of the Navy
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 1319N Research, Development, Test & Eval, Navy

<u>Line No</u>	<u>Program Element Number</u>	<u>Item</u>	<u>Act</u>	<u>FY 2021 (Base + OCO)</u>	<u>FY 2022 Enactment</u>	<u>FY 2023 Request</u>	<u>S e c</u>
64	0603734N	CHALK CORAL	04	410,184	579,389	833,634	U
65	0603739N	Navy Logistic Productivity	04	3,739	669	899	U
66	0603746N	RETRACT MAPLE	04	277,771	295,295	363,973	U
67	0603748N	LINK PLUMERIA	04	477,609	663,780	1,038,661	U
68	0603751N	RETRACT ELM	04	86,839	82,241	83,445	U
69	0603764M	LINK EVERGREEN	04	184,322	264,394	313,761	U
70	0603790N	NATO Research and Development	04	6,717	5,805	8,041	U
71	0603795N	Land Attack Technology	04	5,734	4,017	358	U
72	0603851M	Joint Non-Lethal Weapons Testing	04	27,606	28,168	30,533	U
73	0603860N	Joint Precision Approach and Landing Systems - Dem/Val	04	30,853	22,950	18,628	U
74	0603925N	Directed Energy and Electric Weapon Systems	04	123,403	81,803	65,080	U
75	0604014N	F/A -18 Infrared Search and Track (IRST)	04	81,838	48,793	40,069	U
76	0604027N	Digital Warfare Office	04	34,943	46,769	165,753	U
77	0604028N	Small and Medium Unmanned Undersea Vehicles	04	37,754	79,947	106,347	U
78	0604029N	Unmanned Undersea Vehicle Core Technologies	04	43,561	64,860	60,697	U
79	0604030N	Rapid Prototyping, Experimentation and Demonstration.	04	11,697		57,000	U
80	0604031N	Large Unmanned Undersea Vehicles	04	60,446	65,672		U
81	0604112N	Gerald R. Ford Class Nuclear Aircraft Carrier (CVN 78 - 80)	04	111,554	121,509	116,498	U
82	0604126N	Littoral Airborne MCM	04	17,433	18,669	47,389	U
83	0604127N	Surface Mine Countermeasures	04	18,050	12,507	12,959	U
84	0604272N	Tactical Air Directional Infrared Countermeasures (TADIRCM)	04	47,912	33,246	15,028	U
85	0604289M	Next Generation Logistics	04	4,827	8,071	2,342	U

UNCLASSIFIED

Page N-5

UNCLASSIFIED

Department of the Navy
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 1319N Research, Development, Test & Eval, Navy

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Sec
86	0604292N	Future Vertical Lift (Maritime Strike)	04	5,038	8,274	5,103	U
87	0604320M	Rapid Technology Capability Prototype	04	5,514	11,555	62,927	U
88	0604454N	LX (R)	04	10,005	3,344	26,630	U
89	0604536N	Advanced Undersea Prototyping	04	86,011	31,609	116,880	U
90	0604636N	Counter Unmanned Aircraft Systems (C-UAS)	04	2,518	5,529	7,438	U
91	0604659N	Precision Strike Weapons Development Program	04	78,493	89,513	84,734	U
92	0604707N	Space and Electronic Warfare (SEW) Architecture/Engineering Support	04	5,969	9,340	10,229	U
93	0604786N	Offensive Anti-Surface Warfare Weapon Development	04	45,462	70,792	124,204	U
94	0605512N	MEDIUM UNMANNED SURFACE VEHICLES (MUSVs))	04	53,402	60,020	104,000	U
95	0605513N	Unmanned Surface Vehicle Enabling Capabilities	04		119,560	181,620	U
96	0605514M	GROUND BASED ANTI-SHIP MISSILE	04	28,194	102,716	43,090	U
97	0605516M	LONG RANGE FIRES	04	54,373	88,479	36,693	U
98	0605518N	CONVENTIONAL PROMPT STRIKE (CPS)	04	747,354	1,325,232	1,205,041	U
99	0303354N	ASW Systems Development - MIP	04	9,151	8,536	9,856	U
100	0304240M	Advanced Tactical Unmanned Aircraft System	04	28,125	31,204	1,735	U
101	0304270N	Electronic Warfare Development - MIP	04	805	506	796	U
		Advanced Component Development & Prototypes		5,315,053	6,882,455	8,405,310	
102	0603208N	Training System Aircraft	05	4,299	5,864	15,128	U
103	0604038N	Maritime Targeting Cell	05			39,600	U
104	0604212N	Other Helo Development	05	22,579	49,312	66,010	U
105	0604214M	AV-8B Aircraft - Eng Dev	05	16,543	10,146	9,205	U
106	0604215N	Standards Development	05	4,053	4,082	3,766	U

Page N-6

UNCLASSIFIED

UNCLASSIFIED

Department of the Navy
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 1319N Research, Development, Test & Eval, Navy

<u>Line No</u>	<u>Program Element Number</u>	<u>Item</u>	<u>Act</u>	<u>FY 2021 (Base + OCO)</u>	<u>FY 2022 Enactment</u>	<u>FY 2023 Request</u>	<u>S e c</u>
107	0604216N	Multi-Mission Helicopter Upgrade Development	05	35,671	54,418	44,684	U
108	0604221N	P-3 Modernization Program	05	583	579	343	U
109	0604230N	Warfare Support System	05	14,541	13,167	12,337	U
110	0604231N	Command and Control Systems	05	117,688	122,913	143,575	U
111	0604234N	Advanced Hawkeye	05	268,681	348,360	502,956	U
112	0604245M	H-1 Upgrades	05	55,877	50,158	43,759	U
113	0604261N	Acoustic Search Sensors	05	45,697	49,057	50,231	U
114	0604262N	V-22A	05	128,400	105,729	125,233	U
115	0604264N	Air Crew Systems Development	05	20,740	20,746	43,282	U
116	0604269N	EA-18	05	104,003	59,674	116,589	U
117	0604270N	Electronic Warfare Development	05	123,447	136,593	141,138	U
118	0604273M	Executive Helo Development	05	93,878	41,847	45,645	U
119	0604274N	Next Generation Jammer (NGJ)	05	435,381	235,407	54,679	U
120	0604280N	Joint Tactical Radio System - Navy (JTRS-Navy)	05	223,551	234,434	329,787	U
121	0604282N	Next Generation Jammer (NGJ) Increment II	05	119,568	146,596	301,737	U
122	0604307N	Surface Combatant Combat System Engineering	05	346,832	331,820	347,233	U
123	0604311N	LPD-17 Class Systems Integration	05	904	904		U
124	0604329N	Small Diameter Bomb (SDB)	05	50,003	40,852	42,881	U
125	0604366N	Standard Missile Improvements	05	295,589	343,511	319,943	U
126	0604373N	Airborne MCM	05	10,436	10,881	10,882	U
127	0604378N	Naval Integrated Fire Control - Counter Air Systems Engineering	05	41,929	50,233	45,892	U
128	0604419N	Advanced Sensors Application Program (ASAP)	05	12,483	10,000		U

Page N-7

UNCLASSIFIED

UNCLASSIFIED

Department of the Navy
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 1319N Research, Development, Test & Eval, Navy

<u>Line No</u>	<u>Program Element Number</u>	<u>Item</u>	<u>Act</u>	<u>FY 2021 (Base + OCO)</u>	<u>FY 2022 Enactment</u>	<u>FY 2023 Request</u>	<u>Se</u>
129	0604501N	Advanced Above Water Sensors	05	64,544	62,028	81,254	U
130	0604503N	SSN-688 and Trident Modernization	05	93,879	95,693	93,501	U
131	0604504N	Air Control	05	40,284	27,499	39,138	U
132	0604512N	Shipboard Aviation Systems	05	9,104	8,924	11,759	U
133	0604518N	Combat Information Center Conversion	05	12,333	11,631	11,160	U
134	0604522N	Air and Missile Defense Radar (AMDR) System	05	59,561	87,364	87,459	U
135	0604530N	Advanced Arresting Gear (AAG)	05	63,702	147	151	U
136	0604558N	New Design SSN	05	233,335	486,938	307,585	U
137	0604562N	Submarine Tactical Warfare System	05	69,351	62,115	58,741	U
138	0604567N	Ship Contract Design/ Live Fire T&E	05	61,758	54,829	60,791	U
139	0604574N	Navy Tactical Computer Resources	05	3,798	4,290	4,177	U
140	0604601N	Mine Development	05	74,793	37,758	60,793	U
141	0604610N	Lightweight Torpedo Development	05	113,219	94,386	142,000	U
142	0604654N	Joint Service Explosive Ordnance Development	05	8,294	8,348	8,618	U
143	0604657M	USMC Ground Combat/Supporting Arms Systems - Eng Dev	05	28,472	42,144	45,025	U
144	0604703N	Personnel, Training, Simulation, and Human Factors	05	6,884	7,375	7,454	U
145	0604727N	Joint Standoff Weapon Systems	05	27,453		758	U
146	0604755N	Ship Self Defense (Detect & Control)	05	139,001	142,595	159,426	U
147	0604756N	Ship Self Defense (Engage: Hard Kill)	05	92,547	107,427	71,818	U
148	0604757N	Ship Self Defense (Engage: Soft Kill/EW)	05	82,933	65,307	92,687	U
149	0604761N	Intelligence Engineering	05	12,088	20,684	23,742	U
150	0604771N	Medical Development	05	38,264	31,467	3,178	U

UNCLASSIFIED

Page N-8

UNCLASSIFIED

Department of the Navy
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 1319N Research, Development, Test & Eval, Navy

<u>Line No</u>	<u>Program Element Number</u>	<u>Item</u>	<u>Act</u>	<u>FY 2021 (Base + OCO)</u>	<u>FY 2022 Enactment</u>	<u>FY 2023 Request</u>	<u>Se c</u>
151	0604777N	Navigation/ID System	05	48,237	50,037	53,209	U
152	0604800M	Joint Strike Fighter (JSF) - EMD	05	539	577	611	U
153	0604800N	Joint Strike Fighter (JSF) - EMD	05	240	262	234	U
154	0604850N	SSN(X)	05	990	29,548	143,949	U
155	0605013M	Information Technology Development	05	1,097	11,277	11,361	U
156	0605013N	Information Technology Development	05	249,778	271,085	290,353	U
157	0605024N	Anti-Tamper Technology Support	05	7,702	8,426	7,271	U
158	0605180N	TACAMO Modernization	05		50,592	554,193	U
159	0605212M	CH-53K RDTE	05	392,433	256,903	220,240	U
160	0605215N	Mission Planning	05	77,804	88,128	71,107	U
161	0605217N	Common Avionics	05	52,279	60,117	77,960	U
162	0605220N	Ship to Shore Connector (SSC)	05	12,335	6,320	2,886	U
163	0605327N	T-AO 205 Class	05	2,045	4,336	220	U
164	0605414N	Unmanned Carrier Aviation (UCA)	05	252,435	261,992	265,646	U
165	0605450M	Joint Air-to-Ground Missile (JAGM)	05	12,683	356	371	U
166	0605500N	Multi-mission Maritime Aircraft (MMA)	05	23,266	27,279	37,939	U
167	0605504N	Multi-Mission Maritime (MMA) Increment III	05	178,681	162,884	161,697	U
168	0605611M	Marine Corps Assault Vehicles System Development & Demonstration	05	41,259	73,709	94,569	U
169	0605813M	Joint Light Tactical Vehicle (JLTV) System Development & Demonstration	05	2,490	2,005	2,856	U
170	0204202N	DDG-1000	05	216,951	112,576	197,436	U
171	0301377N	Countering Advanced Conventional Weapons (CACW)	05			12,341	U
172	0303267N	Auctioned Spectrum Relocation Fund	05	82,773			U

Page N-9

UNCLASSIFIED

UNCLASSIFIED

Department of the Navy
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 1319N Research, Development, Test & Eval, Navy

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Sec
173	0303667N	Citizen Broadband Radio System	05	1,239			U
174	0303767N	AMBIT - Pre-Auctioned SRF	05	15,985			U
175	0304785N	ISR & Info Operations	05	107,964	136,134	135,366	U
176	0306250M	Cyber Operations Technology Development	05	24,539	23,768	37,038	U
System Development & Demonstration				5,734,697	5,574,543	6,606,583	
177	0604256N	Threat Simulator Development	06	21,715	57,962	29,430	U
178	0604258N	Target Systems Development	06	9,882	20,113	13,708	U
179	0604759N	Major T&E Investment	06	104,170	96,617	95,316	U
180	0605152N	Studies and Analysis Support - Navy	06	3,051	3,108	3,286	U
181	0605154N	Center for Naval Analyses	06	42,001	34,227	40,624	U
182	0605502N	Small Business Innovative Research	06	491,676			U
183	0605804N	Technical Information Services	06	1,405	934	987	U
184	0605853N	Management, Technical & International Support	06	109,329	108,055	105,152	U
185	0605856N	Strategic Technical Support	06	3,666	3,538	3,787	U
186	0605863N	RDT&E Ship and Aircraft Support	06	102,713	135,149	173,352	U
187	0605864N	Test and Evaluation Support	06	417,646	446,277	468,281	U
188	0605865N	Operational Test and Evaluation Capability	06	25,126	24,872	27,808	U
189	0605866N	Navy Space and Electronic Warfare (SEW) Support	06	15,127	17,653	27,175	U
190	0605867N	SEW Surveillance/Reconnaissance Support	06	8,559	8,065	7,186	U
191	0605873M	Marine Corps Program Wide Support	06	36,826	43,524	39,744	U
192	0605898N	Management HQ - R&D	06	38,826	35,614	40,648	U
193	0606355N	Warfare Innovation Management	06	31,977	38,958	52,060	U

Page N-10

UNCLASSIFIED

UNCLASSIFIED

Department of the Navy
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 1319N Research, Development, Test & Eval, Navy

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Sec
194	0305327N	Insider Threat	06	2,133	2,581	2,315	U
195	0902498N	Management Headquarters (Departmental Support Activities)	06	1,546	1,747	1,811	U
196	0909980N	Judgment Fund Reimbursement	06	189			U
197	0909999N	Financing for Cancelled Account Adjustments	06	1,454			U
Management Support				1,469,017	1,078,994	1,132,670	
198	0603273N	Science & Technology for Nuclear Re-entry Systems	07			65,735	U
200	0604227N	HARPOON Modifications	07	694			U
201	0604840M	F-35 C2D2	07	378,495	515,746	525,338	U
202	0604840N	F-35 C2D2	07	377,005	486,962	491,513	U
203	0605520M	MARINE CORPS AIR DEFENSE WEAPONS SYSTEMS	07	119,512	61,381	48,663	U
204	0607658N	Cooperative Engagement Capability (CEC)	07	129,578	162,676	156,121	U
205	0101221N	Strategic Sub & Weapons System Support	07	121,171	186,998	284,502	U
206	0101224N	SSBN Security Technology Program	07	44,636	45,587	50,939	U
207	0101226N	Submarine Acoustic Warfare Development	07	37,250	59,752	81,237	U
208	0101402N	Navy Strategic Communications	07	40,121	35,451	49,424	U
209	0204136N	F/A-18 Squadrons	07	179,099	219,224	238,974	U
210	0204228N	Surface Support	07	32,533	13,733	12,197	U
211	0204229N	Tomahawk and Tomahawk Mission Planning Center (TMPC)	07	193,318	132,181	132,719	U
212	0204311N	Integrated Surveillance System	07	112,574	84,037	68,417	U
213	0204313N	Ship-Towed Array Surveillance Systems	07	10,825	6,261	1,188	U
214	0204413N	Amphibious Tactical Support Units (Displacement Craft)	07	1,672	1,657	1,789	U
215	0204460M	Ground/Air Task Oriented Radar (G/ATOR)	07	21,563	45,221	61,422	U

UNCLASSIFIED

Page N-11

UNCLASSIFIED

Department of the Navy
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 1319N Research, Development, Test & Eval, Navy

<u>Line No</u>	<u>Program Element Number</u>	<u>Item</u>	<u>Act</u>	<u>FY 2021 (Base + OCO)</u>	<u>FY 2022 Enactment</u>	<u>FY 2023 Request</u>	<u>Sec</u>
216	0204571N	Consolidated Training Systems Development	07	70,518	52,741	70,339	U
217	0204575N	Electronic Warfare (EW) Readiness Support	07	39,502	55,528	47,436	U
218	0205601N	Anti-Radiation Missile Improvement	07	156,551	138,520	90,779	U
219	0205620N	Surface ASW Combat System Integration	07	28,085	28,804	28,999	U
220	0205632N	MK-48 ADCAP	07	69,418	100,759	155,868	U
221	0205633N	Aviation Improvements	07	122,884	144,621	130,450	U
222	0205675N	Operational Nuclear Power Systems	07	110,313	113,760	121,439	U
223	0206313M	Marine Corps Communications Systems	07	75,014	108,695	114,305	U
224	0206335M	Common Aviation Command and Control System (CAC2S)	07	4,311	12,869	14,865	U
225	0206623M	Marine Corps Ground Combat/Supporting Arms Systems	07	49,901	103,810	100,536	U
226	0206624M	Marine Corps Combat Services Support	07	9,832	21,185	26,522	U
227	0206625M	USMC Intelligence/Electronic Warfare Systems (MIP)	07	29,983	37,695	51,976	U
228	0206629M	Amphibious Assault Vehicle	07	5,188	7,551	8,246	U
229	0207161N	Tactical AIM Missiles	07	5,715	23,881	29,236	U
230	0207163N	Advanced Medium Range Air-to-Air Missile (AMRAAM)	07	39,286	32,564	30,898	U
231	0208043N	Planning and Decision Aid System (PDAS)	07		3,101	3,609	U
235	0303109N	Satellite Communications (SPACE)	07	48,708			U
236	0303138N	Afloat Networks	07	36,380	36,879	45,693	U
237	0303140N	Information Systems Security Program	07	38,112	33,311	33,752	U
238	0305192N	Military Intelligence Program (MIP) Activities	07	6,136	7,514	8,415	U
239	0305204N	Tactical Unmanned Aerial Vehicles	07	7,108	9,837	10,576	U
240	0305205N	UAS Integration and Interoperability	07	61,198	5,000	18,373	U

UNCLASSIFIED

Page N-12

UNCLASSIFIED

Department of the Navy
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 1319N Research, Development, Test & Eval, Navy

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Se c
241	0305208M	Distributed Common Ground/Surface Systems	07	21,500	29,749	45,705	U
242	0305220N	MQ-4C Triton	07	11,120	13,029	13,893	U
243	0305231N	MQ-8 UAV	07	28,968	33,543		U
244	0305232M	RQ-11 UAV	07	537	533	1,234	U
245	0305234N	Small (Level 0) Tactical UAS (STUASL0)	07	8,773	1,772	3,761	U
246	0305239M	RQ-21A	07	10,853			U
247	0305241N	Multi-Intelligence Sensor Development	07	60,211	59,252	56,261	U
248	0305242M	Unmanned Aerial Systems (UAS) Payloads (MIP)	07	5,000	9,274	9,780	U
249	0305251N	Cyberspace Operations Forces and Force Support	07	33,454	36,378	36,505	U
250	0305421N	RQ-4 Modernization	07	129,164	134,323	163,277	U
251	0307577N	Intelligence Mission Data (IMD)	07		907	851	U
252	0308601N	Modeling and Simulation Support	07	8,494	9,772	9,437	U
253	0702207N	Depot Maintenance (Non-IF)	07	35,435	35,030	26,248	U
254	0708730N	Maritime Technology (MARITECH)	07	6,406	6,329	2,133	U
255	1203109N	Satellite Communications (SPACE)	07	35,128			U
9999	9999999999	Classified Programs		1,817,981	2,124,976*	1,701,811	U
		Operational Systems Development		5,027,213	5,630,359	5,483,386	
256	0608013N	Risk management Information - Software Pilot Program	08	13,394	13,703	12,810	U
257	0608231N	Maritime Tactical Command and Control (MTC2) - Software Pilot Program	08	10,969	14,843	11,198	U
		Software and Digital Technology Pilot Programs		24,363	28,546	24,008	
		Total Research, Development, Test & Eval, Navy		20,151,249	22,152,438	24,078,718	

*Includes \$31,100 enacted funding pursuant to the Ukraine Supplemental Appropriation Act (Public Law 117-103).

UNCLASSIFIED

Department of the Air Force
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

<u>Summary Recap of Budget Activities</u>	<u>FY 2021 (Base + OCO)</u>	<u>FY 2022 Enactment</u>	<u>FY 2023 Request</u>
Basic Research	496,255	540,706	546,517
Applied Research	1,579,544	1,585,571	1,305,787
Advanced Technology Development	929,477	968,538	827,271
Advanced Component Development & Prototypes	7,193,095	9,742,753*	7,945,238
System Development & Demonstration	2,266,274	2,524,849	6,438,954
Management Support	3,534,738	3,037,687	3,033,528
Operational Systems Development	20,022,756	23,240,309	23,090,569
Software and Digital Technology Pilot Programs			946,437
Total Research, Development, Test & Evaluation	36,022,139	41,640,413	44,134,301
 <u>Summary Recap of FYDP Programs</u>			
Strategic Forces	897,413	1,157,141	1,217,682
General Purpose Forces	3,542,013	4,578,366	4,818,319
Intelligence and Communications	1,143,506	1,189,950	1,509,185
Mobility Forces	886,208	825,887	765,678
Research and Development	14,431,656	16,605,652	18,432,445
Central Supply and Maintenance	122,916	155,648	66,133
Training Medical and Other	7,012	17,944	27,538
Administration and Associated Activities	68,180	89,612	29,823
Support of Other Nations	3,592	2,420	2,593
Space	9,974	6,740	24,264
Classified Programs	14,909,669	17,011,053	17,240,641
Total Research, Development, Test & Evaluation	36,022,139	41,640,413	44,134,301

*Includes \$47,500K enacted funding pursuant to the Ukraine Supplemental Appropriation Act (Public Law 117-103).

UNCLASSIFIED

Department of the Air Force
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Se c
1	0601102F	Defense Research Sciences	01	303,718	353,303	375,325	U
2	0601103F	University Research Initiatives	01	178,083	187,403	171,192	U
3	0601108F	High Energy Laser Research Initiatives	01	14,454			U
Basic Research				496,255	540,706	546,517	
4	0602020F	Future AF Capabilities Applied Research	02	73,226	79,901	88,672	U
5	0602102F	Materials	02	228,115	220,960	134,795	U
6	0602201F	Aerospace Vehicle Technologies	02	148,576	183,032	159,453	U
7	0602202F	Human Effectiveness Applied Research	02	127,160	156,863	135,771	U
8	0602203F	Aerospace Propulsion	02	190,732	190,683	172,861	U
9	0602204F	Aerospace Sensors	02	221,779	255,918	192,733	U
10	0602212F	Defense Laboratories R&D Projects (10 U.S.C, Sec 2358)	02	106,964			U
11	0602298F	Science and Technology Management - Major Headquarters Activities	02	8,910	8,891	8,856	U
12	0602602F	Conventional Munitions	02	118,541	151,757	137,303	U
13	0602605F	Directed Energy Technology	02	122,816	116,456	109,302	U
14	0602788F	Dominant Information Sciences and Methods	02	205,839	221,110	166,041	U
15	0602890F	High Energy Laser Research	02	26,886			U
Applied Research				1,579,544	1,585,571	1,305,787	
16	0603032F	Future AF Integrated Technology Demos	03	135,940	112,643	152,559	U
17	0603112F	Advanced Materials for Weapon Systems	03	57,221	63,378	29,116	U
18	0603199F	Sustainment Science and Technology (S&T)	03	15,631	19,112	10,695	U
19	0603203F	Advanced Aerospace Sensors	03	33,162	53,750	36,997	U
20	0603211F	Aerospace Technology Dev/Demo	03	34,321	105,486	54,727	U

Page F-2

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Se
21	0603216F	Aerospace Propulsion and Power Technology	03	159,354	110,273	64,254	U
22	0603270F	Electronic Combat Technology	03	33,804	44,938	33,380	U
23	0603273F	Science & Technology for Nuclear Re-entry Systems	03			39,431	U
24	0603401F	Advanced Spacecraft Technology	03	63,088			U
25	0603444F	Maui Space Surveillance System (MSSS)	03	11,486			U
26	0603456F	Human Effectiveness Advanced Technology Development	03	29,412	23,459	20,652	U
27	0603601F	Conventional Weapons Technology	03	124,025	155,306	187,374	U
28	0603605F	Advanced Weapons Technology	03	29,094	31,855	98,503	U
29	0603680F	Manufacturing Technology Program	03	143,334	176,200	47,759	U
30	0603788F	Battlespace Knowledge Development and Demonstration	03	59,605	72,138	51,824	U
Advanced Technology Development				929,477	968,538	827,271	
31	0603036F	Modular Advanced Missile	04			125,688	U
32	0603260F	Intelligence Advanced Development	04	4,312	5,795	6,101	U
33	0603742F	Combat Identification Technology	04	25,824	21,939	17,318	U
34	0603790F	NATO Research and Development	04	3,506	4,114	4,295	U
35	0603851F	Intercontinental Ballistic Missile - Dem/Val	04	34,755	76,621	46,432	U
36	0604001F	NC3 Advanced Concepts	04		6,900	5,098	U
37	0604002F	Air Force Weather Services Research	04	2,151	3,855		U
38	0604003F	Advanced Battle Management System (ABMS)	04	152,691	268,849	231,408	U
39	0604004F	Advanced Engine Development	04	642,581	583,712	353,658	U
40	0604006F	Dept of the Air Force Tech Architecture	04		25,138	66,615	U
41	0604015F	Long Range Strike - Bomber	04	2,744,473	2,872,624	3,253,584	U

UNCLASSIFIED

Department of the Air Force
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 3600F Research, Development, Test & Eval, AF

<u>Line No</u>	<u>Program Element Number</u>	<u>Item</u>	<u>Act</u>	<u>FY 2021 (Base + OCO)</u>	<u>FY 2022 Enactment</u>	<u>FY 2023 Request</u>	<u>S e c</u>
42	0604032F	Directed Energy Prototyping	04	19,023	15,820	4,269	U
43	0604033F	Hypersonics Prototyping	04	374,426	318,687	431,868	U
44	0604183F	Hypersonics Prototyping - Hypersonic Attack Cruise Missile (HACM)	04		190,116	144,891	U
45	0604201F	PNT Resiliency, Mods, and Improvements	04		39,742	12,010	U
46	0604257F	Advanced Technology and Sensors	04	25,901	23,745	13,311	U
47	0604288F	Survivable Airborne Operations Center	04	50,038	95,788	203,213	U
48	0604317F	Technology Transfer	04	16,823	56,768	16,759	U
49	0604327F	Hard and Deeply Buried Target Defeat System (HDBTDS) Program	04	53,026	12,886	106,826	U
50	0604414F	Cyber Resiliency of Weapon Systems-ACS	04	67,616	71,229	44,526	U
51	0604668F	Joint Transportation Management System (JTMS)	04			51,758	U
52	0604776F	Deployment & Distribution Enterprise R&D	04	25,474	40,103	27,586	U
53	0604858F	Tech Transition Program	04	297,254	359,045	649,545	U
54	0604860F	Operational Energy and Installation Resilience	04		104,000		U
55	0605230F	Ground Based Strategic Deterrent	04	1,397,485	2,553,541		U
56	0207110F	Next Generation Air Dominance	04	869,740	1,524,667	1,657,733	U
57	0207179F	Autonomous Collaborative Platforms	04			51,747	U
58	0207420F	Combat Identification	04			1,866	U
59	0207455F	Three Dimensional Long-Range Radar (3DELRR)	04	18,862		14,490	U
60	0207522F	Airbase Air Defense Systems (ABADS)	04	8,451	10,905	52,498	U
61	0208030F	War Reserve Materiel - Ammunition	04		3,943	10,288	U
62	0208099F	Unified Platform (UP)	04	5,869			U
63	0304369F	Cyber Capabilities Support Office (CCSO)	04	19,964			U

Page F-4

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Se
64	0305236F	Common Data Link Executive Agent (CDL EA)	04	39,221	43,881	37,460	U
65	0305601F	Mission Partner Environments	04	10,991	16,420	17,378	U
66	0306250F	Cyber Operations Technology Support	04	226,073	282,218*	234,576	U
67	0306415F	Enabled Cyber Activities	04	10,166	24,359**	16,728	U
68	0401310F	C-32 Executive Transport Recapitalization	04	6,151			U
69	0708051F	Rapid Sustainment Modernization (RSM)	04	34,693	65,000		U
70	0808737F	CVV Integrated Prevention	04			9,315	U
71	0901410F	Contracting Information Technology System	04	5,555	20,343	14,050	U
72	1206415F	U.S. Space Command Research and Development Support	04			10,350	U
Advanced Component Development & Prototypes				7,193,095	9,742,753	7,945,238	
73	0604200F	Future Advanced Weapon Analysis & Programs	05	22,478	18,499	9,879	U
74	0604201F	PNT Resiliency, Mods, and Improvements	05	37,409	163,520	176,824	U
75	0604222F	Nuclear Weapons Support	05	24,502	30,050	64,425	U
76	0604270F	Electronic Warfare Development	05	2,017	7,110	2,222	U
77	0604281F	Tactical Data Networks Enterprise	05	111,125	159,836	133,117	U
78	0604287F	Physical Security Equipment	05	5,979	8,469	8,493	U
79	0604602F	Armament/Ordnance Development	05	20,199	9,047	5,279	U
80	0604604F	Submunitions	05	3,085	2,954	3,273	U
81	0604617F	Agile Combat Support	05	18,398	27,938	14,252	U
82	0604618F	Joint Direct Attack Munition	05	6,555			U
83	0604706F	Life Support Systems	05	27,748	25,437	47,442	U
84	0604735F	Combat Training Ranges	05	23,054	23,980	91,284	U

*Includes \$39,719K enacted funding pursuant to the Ukraine Supplemental Appropriation Act (Public Law 117-103).

**Includes \$7,781K enacted funding pursuant to the Ukraine Supplemental Appropriation Act (Public Law 117-103).

UNCLASSIFIED

Department of the Air Force
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Sec
85	0604800F	F-35 - EMD	05	5,214			U
86	0604932F	Long Range Standoff Weapon	05	373,499	599,042	928,850	U
87	0604933F	ICBM Fuze Modernization	05	151,158	129,709	98,376	U
88	0605030F	Joint Tactical Network Center (JTNC)	05			2,222	U
89	0605056F	Open Architecture Management	05	29,709	37,109	38,222	U
90	0605223F	Advanced Pilot Training	05	216,765	188,898	37,121	U
91	0605229F	HH-60W	05	32,196	62,255	58,974	U
92	0605238F	Ground Based Strategic Deterrent EMD	05			3,614,290	U
93	0101125F	Nuclear Weapons Modernization	05	9,595			U
94	0207171F	F-15 EPAWSS	05	165,691	112,012	67,956	U
95	0207279F	Isolated Personnel Survivability and Recovery	05			27,881	U
96	0207328F	Stand In Attack Weapon	05	145,858	166,570	283,152	U
97	0207701F	Full Combat Mission Training	05	9,060	12,064	3,028	U
98	0303267F	Auctioned Spectrum Relocation Fund	05	36,154			U
99	0303667F	Citizen Broadband Radio System	05	2,306			U
100	0303767F	AMBIT - Pre-Auctioned SRF	05	5,270			U
101	0305176F	Combat Survivor Evader Locator	05	935			U
102	0401221F	KC-46A Tanker Squadrons	05	35,818	66,758	197,510	U
103	0401319F	VC-25B	05	720,155	655,665	492,932	U
104	0701212F	Automated Test Systems	05	12,418	15,445	16,664	U
105	0804772F	Training Developments	05	4,471	2,482	15,138	U
106	0901299F	AF A1 Systems	05	7,453			U

UNCLASSIFIED

Page F-6

UNCLASSIFIED

Department of the Air Force
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Se
107	1206442F	Next Generation OPIR	05			148	U
System Development & Demonstration				2,266,274	2,524,849	6,438,954	
108	0604256F	Threat Simulator Development	06	56,987	46,909	21,067	U
109	0604759F	Major T&E Investment	06	207,103	130,766	44,714	U
110	0605101F	RAND Project Air Force	06	35,195	36,017	37,921	U
111	0605502F	Small Business Innovation Research	06	662,308		86	U
112	0605712F	Initial Operational Test & Evaluation	06	10,407	12,582	13,926	U
113	0605807F	Test and Evaluation Support	06	770,149	811,032	826,854	U
114	0605826F	Acq Workforce- Global Power	06	264,371			U
115	0605827F	Acq Workforce- Global Vig & Combat Sys	06	263,868	267,919	255,995	U
116	0605828F	Acq Workforce- Global Reach	06	164,440	429,659	457,589	U
117	0605829F	Acq Workforce- Cyber, Network, & Bus Sys	06	251,517	439,571	459,223	U
118	0605830F	Acq Workforce- Global Battle Mgmt	06	173,987		3,696	U
119	0605831F	Acq Workforce- Capability Integration	06	227,357	263,014	229,610	U
120	0605832F	Acq Workforce- Advanced Prgm Technology	06	53,577	62,755	92,648	U
121	0605833F	Acq Workforce- Nuclear Systems	06	174,318	227,425	241,226	U
122	0605898F	Management HQ - R&D	06	5,424	5,537	4,347	U
123	0605976F	Facilities Restoration and Modernization - Test and Evaluation Support	06	60,856	70,788	77,820	U
124	0605978F	Facilities Sustainment - Test and Evaluation Support	06	29,826	30,057	31,561	U
125	0606017F	Requirements Analysis and Maturation	06	66,233	90,799	101,844	U
126	0606398F	Management HQ - T&E	06	6,929	6,163	6,285	U
127	0303166F	Support to Information Operations (IO) Capabilities	06		537	556	U

UNCLASSIFIED

Department of the Air Force
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Sec
128	0303255F	Command, Control, Communication, and Computers (C4) - STRATCOM	06	21,525	35,340	15,559	U
129	0308602F	ENTEPRISE INFORMATION SERVICES (EIS)	06	9,561	26,720	83,231	U
130	0702806F	Acquisition and Management Support	06	12,943	37,211	24,306	U
131	0804731F	General Skill Training	06	1,260	1,506	871	U
132	0804772F	Training Developments	06		2,957		U
133	0909999F	Financing for Cancelled Account Adjustments	06	1,005			U
134	1001004F	International Activities	06	3,592	2,420	2,593	U
135	1206864F	Space Test Program (STP)	06		3		U
Management Support				3,534,738	3,037,687	3,033,528	
136	0604233F	Specialized Undergraduate Flight Training	07	13,438	8,589	18,037	U
137	0604445F	Wide Area Surveillance	07		2,760		U
138	0604617F	Agile Combat Support	07			8,199	U
139	0604776F	Deployment & Distribution Enterprise R&D	07	479		156	U
140	0604840F	F-35 C2D2	07	684,931	1,105,404	1,014,708	U
141	0605018F	AF Integrated Personnel and Pay System (AF-IPPS)	07	29,526	22,010	37,901	U
142	0605024F	Anti-Tamper Technology Executive Agency	07	46,785	51,492	50,066	U
143	0605117F	Foreign Materiel Acquisition and Exploitation	07	68,962	71,391	80,338	U
144	0605278F	HC/MC-130 Recap RDT&E	07	15,552	46,796	47,994	U
145	0606018F	NC3 Integration	07	30,521	26,532	23,559	U
146	0606942F	Assessments and Evaluations Cyber Vulnerabilities	07	2,885			U
147	0101113F	B-52 Squadrons	07	453,605	646,811	770,313	U
148	0101122F	Air-Launched Cruise Missile (ALCM)	07	1,377	453	571	U

UNCLASSIFIED

Department of the Air Force
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 3600F Research, Development, Test & Eval, AF

<u>Line No</u>	<u>Program Element Number</u>	<u>Item</u>	<u>Act</u>	<u>FY 2021 (Base + OCO)</u>	<u>FY 2022 Enactment</u>	<u>FY 2023 Request</u>	<u>S e c</u>
149	0101126F	B-1B Squadrons	07	15,276	39,127	13,144	U
150	0101127F	B-2 Squadrons	07	147,390	131,647	111,990	U
151	0101213F	Minuteman Squadrons	07	63,535	113,622	69,650	U
152	0101316F	Worldwide Joint Strategic Communications	07	30,124	15,202	22,725	U
153	0101324F	Integrated Strategic Planning & Analysis Network	07	23,420	29,564	3,180	U
154	0101328F	ICBM Reentry Vehicles	07	108,625	96,313	118,616	U
156	0102110F	UH-1N Replacement Program	07	34,524	16,132	17,922	U
157	0102326F	Region/Sector Operation Control Center Modernization Program	07	9,846	771	451	U
158	0102412F	North Warning System (NWS)	07	96	99	76,910	U
159	0102417F	Over-the-Horizon Backscatter Radar	07		67,400	12,210	U
160	0202834F	Vehicles and Support Equipment - General	07		5,889	14,483	U
161	0205219F	MQ-9 UAV	07	103,245	79,121	98,499	U
162	0205671F	Joint Counter RCIED Electronic Warfare	07	4,080	3,111	1,747	U
163	0207040F	Multi-Platform Electronic Warfare Equipment	07		36,607	23,195	U
164	0207131F	A-10 Squadrons	07	24,274	34,224	72,393	U
165	0207133F	F-16 Squadrons	07	197,641	225,573	244,696	U
166	0207134F	F-15E Squadrons	07	230,299	239,616	213,272	U
167	0207136F	Manned Destructive Suppression	07	14,462	15,855	16,695	U
168	0207138F	F-22A Squadrons	07	642,138	647,296	559,709	U
169	0207142F	F-35 Squadrons	07	104,264	69,365	70,730	U
170	0207146F	F-15EX	07	79,866	107,126	83,830	U
171	0207161F	Tactical AIM Missiles	07	18,779	32,974	34,536	U

Page F-9

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 3600F Research, Development, Test & Eval, AF

<u>Line No</u>	<u>Program Element Number</u>	<u>Item</u>	<u>Act</u>	<u>FY 2021 (Base + OCO)</u>	<u>FY 2022 Enactment</u>	<u>FY 2023 Request</u>	<u>S e c</u>
172	0207163F	Advanced Medium Range Air-to-Air Missile (AMRAAM)	07	50,074	51,288	52,704	U
173	0207227F	Combat Rescue - Pararescue	07	668	852	863	U
174	0207247F	AF TENCAP	07	21,605	23,685	23,309	U
175	0207249F	Precision Attack Systems Procurement	07	8,983	12,083	12,722	U
176	0207253F	Compass Call	07	15,228	91,266	49,054	U
177	0207268F	Aircraft Engine Component Improvement Program	07	121,206	115,715	116,087	U
178	0207325F	Joint Air-to-Surface Standoff Missile (JASSM)	07	63,712	117,325	117,198	U
179	0207327F	Small Diameter Bomb (SDB)	07	20,010	32,109	27,713	U
180	0207410F	Air & Space Operations Center (AOC)	07	50,133	90,027		U
181	0207412F	Control and Reporting Center (CRC)	07	15,514	9,875	6,615	U
182	0207417F	Airborne Warning and Control System (AWACS)	07	108,779	167,014	239,658	U
183	0207418F	AFSPECWAR - TACP	07	497	4,598	5,982	U
185	0207431F	Combat Air Intelligence System Activities	07	16,534	17,863	23,504	U
186	0207438F	Theater Battle Management (TBM) C4I	07	7,660	7,905	5,851	U
187	0207439F	Electronic Warfare Integrated Reprogramming (EWIR)	07		15,000	15,990	U
188	0207444F	Tactical Air Control Party-Mod	07	12,589	13,081	10,315	U
189	0207452F	DCAPES	07	14,135	4,305	8,049	U
190	0207521F	Air Force Calibration Programs	07	1,966	1,984	2,123	U
191	0207522F	Airbase Air Defense Systems (ABADS)	07		7,392		U
192	0207573F	National Technical Nuclear Forensics	07	380	1,971	2,039	U
193	0207590F	Seek Eagle	07	29,572	30,539	32,853	U
194	0207601F	USAF Modeling and Simulation	07	17,023	17,110	19,341	U

Page F-10

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 3600F Research, Development, Test & Eval, AF

<u>Line No</u>	<u>Program Element Number</u>	<u>Item</u>	<u>Act</u>	<u>FY 2021 (Base + OCO)</u>	<u>FY 2022 Enactment</u>	<u>FY 2023 Request</u>	<u>Se c</u>
195	0207605F	Wargaming and Simulation Centers	07	6,113	7,535	7,004	U
196	0207610F	Battlefield Abn Comm Node (BACN)	07	5,450	32,008		U
197	0207697F	Distributed Training and Exercises	07	3,260	4,007	4,628	U
198	0208006F	Mission Planning Systems	07	80,193	96,057	99,214	U
199	0208007F	Tactical Deception	07		14,338	17,074	U
200	0208064F	OPERATIONAL HQ - CYBER	07	5,323	2,115	2,347	U
201	0208087F	Distributed Cyber Warfare Operations	07	65,402	72,487	76,592	U
202	0208088F	AF Defensive Cyberspace Operations	07	29,255	18,449	8,367	U
203	0208097F	Joint Cyber Command and Control (JCC2)	07	35,060	79,079	80,740	U
204	0208099F	Unified Platform (UP)	07	91,886	91,893	107,548	U
208	0208288F	Intel Data Applications	07	1,224	493	1,065	U
209	0301025F	GeoBase	07		2,782	2,928	U
210	0301112F	Nuclear Planning and Execution System (NPES)	07	31,576	15,120		U
211	0301113F	Cyber Security Intelligence Support	07		5,224	8,972	U
218	0301401F	Air Force Space and Cyber Non-Traditional ISR for Battlespace Awareness	07	1,404	2,463	3,069	U
219	0302015F	E-4B National Airborne Operations Center (NAOC)	07	3,940	26,331	25,701	U
220	0303131F	Minimum Essential Emergency Communications Network (MEECN)	07	38,298	58,165	41,171	U
221	0303140F	Information Systems Security Program	07	9,592	8,032	70,582	U
222	0303142F	Global Force Management - Data Initiative	07	1,294	452		U
223	0303248F	All Domain Common Platform	07		64,000		U
224	0303260F	Joint Military Deception Initiative	07			2,588	U
226	0304260F	Airborne SIGINT Enterprise	07	117,859	93,546	108,528	U

Page F-11

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 3600F Research, Development, Test & Eval, AF

<u>Line No</u>	<u>Program Element Number</u>	<u>Item</u>	<u>Act</u>	<u>FY 2021 (Base + OCO)</u>	<u>FY 2022 Enactment</u>	<u>FY 2023 Request</u>	<u>S e c</u>
227	0304310F	Commercial Economic Analysis	07	3,887	3,770	4,542	U
230	0305015F	C2 Air Operations Suite - C2 Info Services	07			8,097	U
231	0305020F	CCMD Intelligence Information Technology	07	1,646	1,663	1,751	U
232	0305022F	ISR Modernization & Automation Dvmt (IMAD)	07	19,230	15,888	13,138	U
233	0305099F	Global Air Traffic Management (GATM)	07	4,133	4,672	4,895	U
234	0305103F	Cyber Security Initiative	07	368	290	91	U
235	0305111F	Weather Service	07	34,618	39,228	11,716	U
236	0305114F	Air Traffic Control, Approach, and Landing System (ATCALs)	07	5,729	15,749	8,511	U
237	0305116F	Aerial Targets	07	438	1,528	1,365	U
240	0305128F	Security and Investigative Activities	07	415	223	223	U
241	0305146F	Defense Joint Counterintelligence Activities	07	4,881	8,733	8,328	U
243	0305179F	Integrated Broadcast Service (IBS)	07	8,848	21,335	22,123	U
244	0305202F	Dragon U-2	07	36,593	35,846	20,170	U
245	0305206F	Airborne Reconnaissance Systems	07	133,247	108,291	55,048	U
246	0305207F	Manned Reconnaissance Systems	07	14,679	14,799	14,590	U
247	0305208F	Distributed Common Ground/Surface Systems	07	14,126	24,568	26,901	U
248	0305220F	RQ-4 UAV	07	163,278	83,124	68,801	U
249	0305221F	Network-Centric Collaborative Targeting	07	15,022	17,224	17,564	U
250	0305238F	NATO AGS	07	36,664	19,473	826	U
251	0305240F	Support to DCGS Enterprise	07	33,486	40,421	28,774	U
252	0305600F	International Intelligence Technology and Architectures	07	13,603	14,473	15,036	U
253	0305881F	Rapid Cyber Acquisition	07	4,098	4,326	3,739	U

UNCLASSIFIED

Page F-12

UNCLASSIFIED

Department of the Air Force
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 3600F Research, Development, Test & Eval, AF

<u>Line No</u>	<u>Program Element Number</u>	<u>Item</u>	<u>Act</u>	<u>FY 2021 (Base + OCO)</u>	<u>FY 2022 Enactment</u>	<u>FY 2023 Request</u>	<u>S e c</u>
254	0305984F	Personnel Recovery Command & Ctrl (PRC2)	07	2,122	2,567	2,702	U
255	0307577F	Intelligence Mission Data (IMD)	07	6,266	6,169	6,332	U
256	0401115F	C-130 Airlift Squadron	07	48,698	12,552	407	U
257	0401119F	C-5 Airlift Squadrons (IF)	07	22,742	17,507	6,100	U
258	0401130F	C-17 Aircraft (IF)	07	11,653	16,360	25,387	U
259	0401132F	C-130J Program	07	6,179	24,112	11,060	U
260	0401134F	Large Aircraft IR Countermeasures (LAIRCM)	07	4,949	5,540	2,909	U
261	0401218F	KC-135s	07	4,583	3,564	12,955	U
262	0401318F	CV-22	07	17,823	17,189	10,121	U
263	0408011F	Special Tactics / Combat Control	07	7,457	6,640	6,297	U
264	0708055F	Maintenance, Repair & Overhaul System	07	20,422	26,921	19,892	U
265	0708610F	Logistics Information Technology (LOGIT)	07	32,122	11,071	5,271	U
266	0708611F	Support Systems Development	07	10,318			U
267	0804743F	Other Flight Training	07	1,281	5,999	2,214	U
268	0808716F	Other Personnel Activities	07		5,000		U
269	0901202F	Joint Personnel Recovery Agency	07	2,019	1,841	2,164	U
270	0901218F	Civilian Compensation Program	07	3,093	3,560	4,098	U
271	0901220F	Personnel Administration	07	1,536	3,368	3,191	U
272	0901226F	Air Force Studies and Analysis Agency	07	1,151	1,248	899	U
273	0901538F	Financial Management Information Systems Development	07	6,740	4,852	5,421	U
274	0901554F	Defense Enterprise Acntng and Mgt Sys (DEAMS)	07	39,628	54,400		U
275	1201921F	Service Support to STRATCOM - Space Activities	07	991			U

UNCLASSIFIED

Page F-13

UNCLASSIFIED

Department of the Air Force
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Se
276	1202140F	Service Support to SPACECOM Activities	07	8,983	6,737	13,766	U
9999	9999999999	Classified Programs		14,909,669	17,011,053	17,240,641	U
		Operational Systems Development		20,022,756	23,240,309	23,090,569	
278	0608158F	Strategic Mission Planning and Execution System - Software Pilot Program	08			100,167	U
279	0608410F	Air & Space Operations Center (AOC) - Software Pilot Program	08			177,827	U
280	0608920F	Defense Enterprise Accounting and Management System (DEAMS) - Software Pilot Pro	08			136,202	U
281	0208087F	Distributed Cyber Warfare Operations	08			37,346	U
282	0308605F	Air Force Defensive Cyber Systems (AFDCS) - Software Pilot Program	08			240,926	U
283	0308606F	All Domain Common Platform (ADCP) - Software Pilot Program	08			190,112	U
284	0308607F	Air Force Weather Programs - Software Pilot Program	08			58,063	U
285	0308608F	Electronic Warfare Integrated Reprogramming (EWIR) - Software Pilot Program	08			5,794	U
		Software and Digital Technology Pilot Programs				946,437	
Total Research, Development, Test & Eval, AF				36,022,139	41,640,413	44,134,301	

Department of the Air Force
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

<u>Summary Recap of Budget Activities</u>	<u>FY 2021</u> <u>(Base + OCO)</u>	<u>FY 2022</u> <u>Enactment</u>	<u>FY 2023</u> <u>Request</u>
Applied Research	214,494	286,505	243,737
Advanced Technology Development		238,584	564,215
Advanced Component Development & Prototypes	1,335,818	1,598,560	2,992,458
System Development & Demonstration	3,638,636	3,167,810	5,335,659
Management Support	537,965	471,142	424,943
Operational System Development	4,624,888	5,680,275	6,103,307
Software & Digital Technology Pilot Programs	155,067	154,529	155,053
Total Research, Development, Test & Evaluation	10,506,868	11,597,405	15,819,372
 <u>Summary Recap of FYDP Programs</u>			
Research and Development			816
Space	6,969,975	7,034,096	10,845,198
Classified Programs	3,536,893	4,563,309	4,973,358
Total Research, Development, Test & Evaluation	10,506,868	11,597,405	15,819,372

UNCLASSIFIED

Department of the Air Force
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 3620F RDTE, Space Force

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Se
1	1202212SF	Defense Laboratories R&D Projects	02	5,238			U
2	1206601SF	Space Technology	02	209,256	286,505	243,737	U
		Applied Research		214,494	286,505	243,737	
3	1206310SF	Space Science and Technology Research and Development	03			460,820	U
4	1206616SF	Space Advanced Technology Development/Demo	03		238,584	103,395	U
		Advanced Technology Development			238,584	564,215	
5	0604002SF	Space Force Weather Services Research	04			816	U
6	1203164SF	NAVSTAR Global Positioning System (User Equipment) (SPACE)	04	367,652	434,194	382,594	U
7	1203622SF	Space Warfighting Analysis	04			44,791	U
8	1203710SF	EO/IR Weather Systems	04	125,110	162,274	96,519	U
9	1203905SF	Space System Support	04		37,000		U
10	1206410SF	Space Technology Development and Prototyping	04			986,822	U
11	1206422SF	Weather System Follow-on	04	77,379	53,421		U
12	1206425SF	Space Situation Awareness Systems	04	30,356	105,062	230,621	U
13	1206427SF	Space Systems Prototype Transitions (SSPT)	04	163,796	91,851	106,252	U
14	1206438SF	Space Control Technology	04	42,400	35,931	57,953	U
15	1206458SF	Tech Transition (Space)	04		50,000		U
16	1206730SF	Space Security and Defense Program	04	56,311	53,896	59,169	U
17	1206760SF	Protected Tactical Enterprise Service (PTES)	04	105,718	100,320	121,069	U
18	1206761SF	Protected Tactical Service (PTS)	04	193,291	229,329	294,828	U
19	1206855SF	Evolved Strategic SATCOM (ESS)	04	69,009	172,089	565,597	U

UNCLASSIFIED

Department of the Air Force
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 3620F RDTE, Space Force

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Se
20	1206857SF	Space Rapid Capabilities Office	04	104,796	73,193	45,427	U
Advanced Component Development & Prototypes				1,335,818	1,598,560	2,992,458	
21	1203269SF	GPS III Follow-On (GPS IIIF)	05	275,819	246,332	325,927	U
22	1203940SF	Space Situation Awareness Operations	05	35,749	42,008	49,628	U
23	1206421SF	Counterspace Systems	05	55,592	48,063	21,848	U
24	1206422SF	Weather System Follow-on	05	2,440	1,438	48,870	U
25	1206425SF	Space Situation Awareness Systems	05	165,008	127,026	105,140	U
26	1206431SF	Advanced EHF MILSATCOM (SPACE)	05	86,918	26,942	11,701	U
27	1206432SF	Polar MILSATCOM (SPACE)	05	123,519	112,170	67,465	U
28	1206433SF	Wideband Global SATCOM (SPACE)	05			48,438	U
29	1206440SF	Next-Gen OPIR -- Ground	05		542,477		U
30	1206442SF	Next Generation OPIR	05	2,318,864	125,853	3,479,459	U
31	1206443SF	Next-Gen OPIR -- GEO	05		1,199,193		U
32	1206444SF	Next-Gen OPIR -- Polar	05		471,398		U
33	1206445SF	Commercial SATCOM (COMSATCOM) Integration	05	41,711	23,400	23,513	U
34	1206446SF	Resilient Missile Warning Missile Tracking - Low Earth Orbit (LEO)	05			499,840	U
35	1206447SF	Resilient Missile Warning Missile Tracking - Medium Earth Orbit (MEO)	05			139,131	U
36	1206448SF	Resilient Missile Warning Missile Tracking - Integrated Ground Segment	05			390,596	U
37	1206853SF	National Security Space Launch Program (SPACE) - EMD	05	533,016	201,510	124,103	U
System Development & Demonstration				3,638,636	3,167,810	5,335,659	
38	1205502SF	Small Business Innovation Research	06	256,920			U

UNCLASSIFIED

Department of the Air Force
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 3620F RDTE, Space Force

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Se
39	1206116SF	Space Test and Training Range Development	06	19,724	69,819	21,453	U
40	1206392SF	ACQ Workforce - Space & Missile Systems	06	193,631	214,051	253,716	U
41	1206398SF	Space & Missile Systems Center - MHA	06	9,765	12,119	13,962	U
42	1206616SF	Space Advanced Technology Development/Demo	06			2,773	U
43	1206759SF	Major T&E Investment - Space	06		86,503	89,751	U
44	1206860SF	Rocket Systems Launch Program (SPACE)	06	17,710	17,769	17,922	U
45	1206862SF	Tactically Responsive Launch	06	14,549	50,000		U
46	1206864SF	Space Test Program (STP)	06	25,666	20,881	25,366	U
Management Support				537,965	471,142	424,943	
48	1201017SF	Global Sensor Integrated on Network (GSIN)	07	5,411	4,731	5,321	U
49	1203001SF	Family of Advanced BLoS Terminals (FAB-T)	07	224,242	156,788	128,243	U
50	1203040SF	DCO-Space	07		2,150	28,162	U
51	1203109SF	Narrowband Satellite Communications	07		110,012	165,892	U
52	1203110SF	Satellite Control Network (SPACE)	07	58,509	36,810	42,199	U
53	1203165SF	NAVSTAR Global Positioning System (Space and Control Segments)	07	1,643	1,966	2,062	U
54	1203173SF	Space and Missile Test and Evaluation Center	07	4,273	1,699	4,157	U
55	1203174SF	Space Innovation, Integration and Rapid Technology Development	07	35,824	18,054	38,103	U
56	1203182SF	Spacelift Range System (SPACE)	07	20,358	31,115	11,658	U
57	1203265SF	GPS III Space Segment	07	10,398	7,207	1,626	U
58	1203330SF	Space Superiority ISR	07	16,810	18,109	29,128	U
59	1203620SF	National Space Defense Center	07	2,590	1,280	2,856	U
60	1203873SF	Ballistic Missile Defense Radars	07	21,817	12,292	18,615	U

UNCLASSIFIED

Department of the Air Force
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 3620F RDTE, Space Force

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Se
61	1203906SF	NCMC - TW/AA System	07	6,752	9,858	7,274	U
62	1203913SF	NUDET Detection System (SPACE)	07	29,157	45,887	80,429	U
63	1203940SF	Space Situation Awareness Operations	07	68,070	64,763	80,903	U
64	1206423SF	Global Positioning System III - Operational Control Segment	07	460,942	402,532	359,720	U
68	1206770SF	Enterprise Ground Services	07	121,199	191,713	123,601	U
9999	9999999999	Classified Programs		3,536,893	4,563,309	4,973,358	U
		Operational System Development		4,624,888	5,680,275	6,103,307	
69	1203614SF	JSpOC Mission System	08	155,067	154,529		U
70	1208248SF	Space Command & Control - Software Pilot Program	08			155,053	U
		Software & Digital Technology Pilot Programs		155,067	154,529	155,053	
Total RDTE, Space Force				10,506,868	11,597,405	15,819,372	

UNCLASSIFIED

Defense-Wide
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

<u>Summary Recap of Budget Activities</u>	<u>FY 2021 (Base + OCO)</u>	<u>FY 2022 Enactment</u>	<u>FY 2023 Request</u>
Basic Research	850,283	912,183	773,340
Applied Research	1,871,853	2,220,910	2,386,000
Advanced Technology Development	3,824,888	4,797,858	4,638,401
Advanced Component Development & Prototypes	9,924,410	10,753,998	10,756,509
System Development & Demonstration	715,180	558,880	1,014,114
Management Support	1,752,623	1,959,730	1,830,097
Operational Systems Development	6,707,307	7,445,744	10,114,680
Software And Digital Technology Pilot Programs	351,836	449,900	564,411
Total Research, Development, Test & Evaluation	25,998,380	29,099,203	32,077,552
 <u>Summary Recap of FYDP Programs</u>			
General Purpose Forces	106,451	61,586	79,481
Intelligence and Communications	1,042,057	1,141,178	1,020,794
Research and Development	18,658,861	19,867,672	21,798,437
Central Supply and Maintenance	10,408	13,580	6,759
Training Medical and Other	29,392	30,219	38,568
Administration and Associated Activities	29,818	26,747	28,400
Special Operations Forces	806,596	850,263	816,413
Space	455,189	1,684,804	131,227
Classified Programs	4,859,608	5,423,154	8,157,473
Total Research, Development, Test & Evaluation	25,998,380	29,099,203	32,077,552

UNCLASSIFIED

Defense-Wide
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

<u>Appropriation</u>	<u>FY 2021 (Base + OCO)</u>	<u>FY 2022 Enactment*</u>	<u>FY 2023 Request</u>
Chemical and Biological Defense Program	1,043,228	1,052,545	1,325,355
Defense Advanced Research Projects Agency	3,504,048	3,867,790	4,119,194
Defense Contract Audit Agency	2,118	2,568	2,664
Defense Contract Management Agency	2,789	4,265	1,244
Defense Counterintelligence & Security Agency			
Defense Human Resources Activity	37,919	30,509	30,664
Defense Intelligence Agency			
Defense Information Systems Agency	424,909	329,587	207,275
Defense Logistics Agency	252,947	350,904	227,972
Defense Security Cooperative Agency	6,064	7,398	8,317
Defense Technical Information Center	61,647	65,002	66,702
Defense Threat Reduction Agency	567,055	645,430	653,952
Missile Defense Agency	7,850,486	7,226,998	7,872,996
National Geospatial Intelligence Agency			
National Security Agency			
Office of Secretary of Defense	5,593,632	7,058,633	7,578,029
Space Development Agency	267,116	1,376,817	
U.S., Special Operations Command	812,658	856,257	822,508
The Joint Staff	115,034	109,061	148,613
Washington Headquarters Services	999	918	
Total Research, Development, Test & Evaluation	25,998,380	29,099,203	32,077,552

*Includes \$51,745K enacted funding pursuant to the Ukraine Supplemental Appropriation Act (Public Law 117-103).

UNCLASSIFIED

Page D-2

UNCLASSIFIED

Defense-Wide
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Sec
1	0601000BR	DTRA Basic Research	01	14,244	11,828	11,584	U
2	0601101E	Defense Research Sciences	01	449,322	443,842	401,870	U
3	0601108D8Z	High Energy Laser Research Initiatives	01		20,342	16,257	U
4	0601110D8Z	Basic Research Initiatives	01	72,992	76,702	62,386	U
5	0601117E	Basic Operational Medical Research Science	01	57,542	77,518	80,874	U
6	0601120D8Z	National Defense Education Program	01	132,522	144,841	132,347	U
7	0601228D8Z	Historically Black Colleges and Universities/Minority Institutions	01	77,017	99,902	33,288	U
8	0601384BP	Chemical and Biological Defense Program	01	46,644	37,208	34,734	U
		Basic Research		850,283	912,183	773,340	
9	0601228D8Z	Historically Black Colleges and Universities/Minority Institutions	02	1,280			U
10	0602000D8Z	Joint Munitions Technology	02	24,098	20,529	18,961	U
11	0602115E	Biomedical Technology	02	98,319	108,698	106,958	U
12	0602128D8Z	Promotion and Protection Strategies	02			3,275	U
13	0602134BR	Improvised Threat Reduction Applied Research	02	3,699			U
14	0602230D8Z	Defense Technology Innovation	02	17,109	17,428	20,634	U
15	0602234D8Z	Lincoln Laboratory Research Program	02	38,338	55,516	46,159	U
16	0602251D8Z	Applied Research for the Advancement of S&T Priorities	02	51,675	58,982	67,666	U
17	0602303E	Information & Communications Technology	02	405,789	480,363	388,270	U
18	0602383E	Biological Warfare Defense	02	26,082	31,421	23,059	U
19	0602384BP	Chemical and Biological Defense Program	02	189,042	209,956	256,197	U
20	0602668D8Z	Cyber Security Research	02	24,328	25,331	17,264	U
21	0602675D8Z	Social Sciences for Environmental Security	02			4,000	U

UNCLASSIFIED

Defense-Wide
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Se c
22	0602702E	Tactical Technology	02	230,211	207,515	221,883	U
23	0602715E	Materials and Biological Technology	02	238,215	308,024	352,976	U
24	0602716E	Electronics Technology	02	307,791	393,384	557,745	U
25	0602718BR	Counter Weapons of Mass Destruction Applied Research	02	159,004	197,011	192,162	U
26	0602751D8Z	Software Engineering Institute (SEI) Applied Research	02	9,216	9,571	11,030	U
27	0602890D8Z	High Energy Laser Research	02		45,852	48,587	U
28	1160401BB	SOF Technology Development	02	47,657	51,329	49,174	U
		Applied Research		1,871,853	2,220,910	2,386,000	
29	0603000D8Z	Joint Munitions Advanced Technology	03	21,625	30,140	34,065	U
30	0603121D8Z	SO/LIC Advanced Development	03	4,904	4,665	4,919	U
31	0603122D8Z	Combating Terrorism Technology Support	03	140,882	141,876	72,614	U
32	0603133D8Z	Foreign Comparative Testing	03	23,651	25,352	26,802	U
33	0603134BR	Counter Improvised-Threat Simulation	03	3,861			U
34	0603160BR	Counter Weapons of Mass Destruction Advanced Technology Development	03	331,325	409,862	395,721	U
35	0603176BR	Advanced Concepts and Performance Assessment	03			6,505	U
36	0603176C	Advanced Concepts and Performance Assessment	03	49,069	40,000	16,737	U
37	0603180C	Advanced Research	03	29,621	47,966	22,023	U
38	0603183D8Z	Joint Hypersonic Technology Development & Transition	03		51,178	52,156	U
39	0603225D8Z	Joint DoD-DoE Munitions Technology Development	03	18,809	19,003	18,898	U
40	0603286E	Advanced Aerospace Systems	03	216,283	194,043	253,135	U
41	0603287E	Space Programs and Technology	03	144,463	181,524	81,888	U
42	0603288D8Z	Analytic Assessments	03	19,107	23,936	24,052	U

Page D-4

UNCLASSIFIED

UNCLASSIFIED

Defense-Wide
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Sec
43	0603289D8Z	Advanced Innovative Analysis and Concepts	03	28,008	46,351	53,890	U
44	0603291D8Z	Advanced Innovative Analysis and Concepts - MHA	03	14,168			U
45	0603294C	Common Kill Vehicle Technology	03	10,793			U
46	0603338D8Z	Defense Modernization and Prototyping	03	150,480	96,579	141,561	U
47	0603342D8Z	Defense Innovation Unit (DIU)	03	34,401	26,749	42,925	U
48	0603375D8Z	Technology Innovation	03	25,884	39,761	109,535	U
49	0603384BP	Chemical and Biological Defense Program - Advanced Development	03	184,348	197,824	238,407	U
50	0603527D8Z	RETRACT LARCH	03	90,918	98,862	79,493	U
51	0603618D8Z	Joint Electronic Advanced Technology	03	14,773	18,164	19,218	U
52	0603648D8Z	Joint Capability Technology Demonstrations	03	69,482	102,345	114,100	U
53	0603662D8Z	Networked Communications Capabilities	03	5,692	2,975	3,168	U
54	0603680D8Z	Defense-Wide Manufacturing Science and Technology Program	03	237,098	255,244	256,142	U
55	0603680S	Manufacturing Technology Program	03	66,632	81,262	46,166	U
56	0603712S	Generic Logistics R&D Technology Demonstrations	03	14,507	11,987	13,663	U
57	0603716D8Z	Strategic Environmental Research Program	03	79,661	91,571	58,411	U
58	0603720S	Microelectronics Technology Development and Support	03	131,718	202,475	139,833	U
59	0603727D8Z	Joint Warfighting Program	03	3,727	2,157	2,411	U
60	0603739E	Advanced Electronics Technologies	03	92,989	140,716	250,917	U
61	0603760E	Command, Control and Communications Systems	03	220,184	251,794	305,050	U
62	0603766E	Network-Centric Warfare Technology	03	628,540	668,271*	678,562	U
63	0603767E	Sensor Technology	03	189,051	294,792	314,502	U
64	0603769D8Z	Distributed Learning Advanced Technology Development	03	6,588	6,056	201	U

*Includes \$12,500K enacted funding pursuant to the Ukraine Supplemental Appropriation Act (Public Law 117-103).

Page D-5

UNCLASSIFIED

Defense-Wide
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	S e c
65	0603781D8Z	Software Engineering Institute	03	12,128	14,631	13,417	U
66	0603924D8Z	High Energy Laser Advanced Technology Program	03	109,113	83,159	111,149	U
67	0603941D8Z	Test & Evaluation Science & Technology	03	171,891	464,850	315,090	U
68	0603950D8Z	National Security Innovation Network	03	38,532	36,203	22,028	U
69	0604055D8Z	Operational Energy Capability Improvement	03	15,413	108,482	180,170	U
70	0303367D8Z	Spectrum Access Research and Development	03	11,096			U
71	0909999D8Z	Financing for Cancelled Account Adjustments	03	903			U
72	1160402BB	SOF Advanced Technology Development	03	92,656	112,415	118,877	U
73	1206310SDA	Space Science and Technology Research and Development	03	69,914	172,638		U
		Advanced Technology Development		3,824,888	4,797,858	4,638,401	
74	0603161D8Z	Nuclear and Conventional Physical Security Equipment RDT&E ADC&P	04	31,634	28,525	41,507	U
75	0603600D8Z	WALKOFF	04	98,841	108,652	133,795	U
76	0603851D8Z	Environmental Security Technical Certification Program	04	72,135	122,737	84,638	U
77	0603881C	Ballistic Missile Defense Terminal Defense Segment	04	305,081	213,382	190,216	U
78	0603882C	Ballistic Missile Defense Midcourse Defense Segment	04	1,195,853	724,028	667,524	U
79	0603884BP	Chemical and Biological Defense Program - Dem/Val	04	78,825	133,945	291,364	U
80	0603884C	Ballistic Missile Defense Sensors	04	259,605	254,962	231,134	U
81	0603890C	BMD Enabling Programs	04	607,167	623,644	591,847	U
82	0603891C	Special Programs - MDA	04	380,204	413,374	316,977	U
83	0603892C	AEGIS BMD	04	861,809	639,549	600,072	U
84	0603896C	Ballistic Missile Defense Command and Control, Battle Management and Communicati	04	639,027	564,946	589,374	U
85	0603898C	Ballistic Missile Defense Joint Warfighter Support	04	49,261	50,594	50,269	U

Page D-6

UNCLASSIFIED

Defense-Wide
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

<u>Line No</u>	<u>Program Element Number</u>	<u>Item</u>	<u>Act</u>	<u>FY 2021 (Base + OCO)</u>	<u>FY 2022 Enactment</u>	<u>FY 2023 Request</u>	<u>S e c</u>
86	0603904C	Missile Defense Integration & Operations Center (MDIOC)	04	54,026	52,403	49,367	U
87	0603906C	Regarding Trench	04	10,213	11,952	12,146	U
88	0603907C	Sea Based X-Band Radar (SBX)	04	120,063	147,241	164,668	U
89	0603913C	Israeli Cooperative Programs	04	300,000	300,000	300,000	U
90	0603914C	Ballistic Missile Defense Test	04	364,994	389,156	367,824	U
91	0603915C	Ballistic Missile Defense Targets	04	534,348	560,478	559,513	U
92	0603923D8Z	Coalition Warfare	04	9,975	5,074	11,154	U
93	0604011D8Z	Next Generation Information Communications Technology (5G)	04	428,127	336,485	249,591	U
94	0604016D8Z	Department of Defense Corrosion Program	04	5,240	3,241	3,166	U
95	0604102C	Guam Defense Development	04		112,400	397,936	U
96	0604115C	Technology Maturation Initiatives	04	105,895	39,200		U
97	0604124D8Z	Chief Digital and Artificial Intelligence Officer (CDAO) - MIP	04			33,950	U
98	0604134BR	Counter Improvised-Threat Demonstration, Prototype Development, and Testing	04	19,931			U
99	0604181C	Hypersonic Defense	04	267,589	287,796	225,477	U
100	0604250D8Z	Advanced Innovative Technologies	04	732,208	777,199	1,145,358	U
101	0604294D8Z	Trusted & Assured Microelectronics	04	489,251	704,091	647,226	U
102	0604331D8Z	Rapid Prototyping Program	04	89,318	137,349	179,189	U
103	0604341D8Z	Defense Innovation Unit (DIU) Prototyping	04	30,108	16,178	24,402	U
104	0604400D8Z	Department of Defense (DoD) Unmanned System Common Development	04	6,825	7,762	2,691	U
105	0604551BR	Catapult	04		7,166	7,130	U
106	0604555D8Z	Operational Energy Capability Improvement - Non S&T	04		23,069	45,779	U
107	0604672C	Homeland Defense Radar - Hawaii (HDR-H)	04	133,000	75,000		U

Page D-7

UNCLASSIFIED

UNCLASSIFIED

Defense-Wide
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Se c
108	0604682D8Z	Wargaming and Support for Strategic Analysis (SSA)	04	3,341	3,409	3,229	U
109	0604826J	Joint C5 Capability Development, Integration and interoperability Assessments	04	18,115	17,439	40,699	U
110	0604873C	Long Range Discrimination Radar (LRDR)	04	135,088	133,335	75,120	U
111	0604874C	Improved Homeland Defense Interceptors	04	843,899	884,125	1,833,357	U
112	0604876C	Ballistic Missile Defense Terminal Defense Segment Test	04	1,000	32,697	69,762	U
113	0604878C	Aegis BMD Test	04	71,481	111,206	182,776	U
114	0604879C	Ballistic Missile Defense Sensor Test	04	64,245	77,428	88,326	U
115	0604880C	Land-Based SM-3 (LBSM3)	04	52,804	43,158	27,678	U
116	0604887C	Ballistic Missile Defense Midcourse Segment Test	04	67,071	61,424	84,075	U
117	0202057C	Safety Program Management	04		2,323	2,417	U
118	0300206R	Enterprise Information Technology Systems	04	2,118	2,568	2,664	U
119	0303191D8Z	Joint Electromagnetic Technology (JET) Program	04	997			U
120	0305103C	Cyber Security Initiative	04	1,122	1,142	1,165	U
121	1206410SDA	Space Technology Development and Prototyping	04	187,953	1,204,179		U
122	1206893C	Space Tracking & Surveillance System	04	33,356	15,176		U
123	1206895C	Ballistic Missile Defense System Space Programs	04	161,267	292,811	129,957	U
Advanced Component Development & Prototypes				9,924,410	10,753,998	10,756,509	
124	0604123D8Z	Chief Digital and Artificial Intelligence Officer (CDAO) - Dem/Val Activities	05			273,340	U
125	0604161D8Z	Nuclear and Conventional Physical Security Equipment RDT&E SDD	05	7,045	5,650	6,482	U
126	0604165D8Z	Prompt Global Strike Capability Development	05	89,156			U
127	0604384BP	Chemical and Biological Defense Program - EMD	05	353,472	299,848	312,148	U

UNCLASSIFIED

Defense-Wide
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Se c
128	0604771D8Z	Joint Tactical Information Distribution System (JTIDS)	05	49,458	21,292	9,120	U
129	0605000BR	Counter Weapons of Mass Destruction Systems Development	05	15,250	14,063	14,403	U
130	0605013BL	Information Technology Development	05	2,789	4,265	1,244	U
131	0605021SE	Homeland Personnel Security Initiative	05	7,287	7,205	6,191	U
132	0605022D8Z	Defense Exportability Program	05	12,649	5,416	10,145	U
133	0605027D8Z	OUSD(C) IT Development Initiatives	05	9,883	16,892	5,938	U
134	0605070S	DOD Enterprise Systems Development and Demonstration	05	1,327	654		U
135	0605075D8Z	CMO Policy and Integration	05	1,295			U
136	0605080S	Defense Agency Initiatives (DAI) - Financial System	05	21,403	31,136	23,171	U
137	0605141BR	Mission Assurance Risk Management System (MARMS)	05	5,500	5,500	14,093	U
138	0605210D8Z	Defense-Wide Electronic Procurement Capabilities	05	7,970	7,108	6,949	U
139	0605294D8Z	Trusted & Assured Microelectronics	05	104,180	113,536	302,963	U
140	0605772D8Z	Nuclear Command, Control, & Communications	05	3,547	3,969	3,758	U
141	0305304D8Z	DoD Enterprise Energy Information Management (EEIM)	05	3,152	2,214	8,121	U
142	0305310D8Z	CWMD Systems: System Development and Demonstration	05	19,817	20,132	16,048	U
		System Development & Demonstration		715,180	558,880	1,014,114	
143	0603829J	Joint Capability Experimentation	06	10,730	8,444	12,452	U
144	0604774D8Z	Defense Readiness Reporting System (DRRS)	06	9,586	7,167	8,902	U
145	0604875D8Z	Joint Systems Architecture Development	06	8,180	7,815	6,610	U
146	0604940D8Z	Central Test and Evaluation Investment Development (CTEIP)	06	407,678	994,151	819,358	U
147	0604942D8Z	Assessments and Evaluations	06	18,296	17,879	4,607	U
148	0605001E	Mission Support	06	75,246	73,145	86,869	U

Page D-9

UNCLASSIFIED

UNCLASSIFIED

Defense-Wide
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

<u>Line No</u>	<u>Program Element Number</u>	<u>Item</u>	<u>Act</u>	<u>FY 2021 (Base + OCO)</u>	<u>FY 2022 Enactment</u>	<u>FY 2023 Request</u>	<u>S e c</u>
149	0605100D8Z	Joint Mission Environment Test Capability (JMETC)	06	76,146	71,410	126,079	U
150	0605126J	Joint Integrated Air and Missile Defense Organization (JIAMDO)	06	50,255	52,671	53,278	U
151	0605128D8Z	Classified Program USD(P)	06	110,000	108,112		U
152	0605142D8Z	Systems Engineering	06	44,168	39,904	39,009	U
153	0605151D8Z	Studies and Analysis Support - OSD	06	6,720	4,612	5,716	U
154	0605161D8Z	Nuclear Matters-Physical Security	06	16,013	14,348	15,379	U
155	0605170D8Z	Support to Networks and Information Integration	06	9,230	4,759	9,449	U
156	0605200D8Z	General Support to OUSD(Intelligence and Security)	06	7,904	10,452	6,112	U
157	0605384BP	Chemical and Biological Defense Program	06	125,455	115,503	124,475	U
158	0605502BP	Small Business Innovative Research - Chemical Biological Def	06	26,967			U
159	0605502BR	Small Business Innovation Research	06	14,241			U
160	0605502C	Small Business Innovation Research - MDA	06	114,633			U
161	0605502D8Z	Small Business Innovative Research	06	156,944			U
162	0605502E	Small Business Innovative Research	06	109,867			U
163	0605502S	Small Business Innovative Research	06	8,606	11,500		U
164	0605502SDA	Small Business Innovative Research	06	9,249			U
165	0605790D8Z	Small Business Innovation Research (SBIR)/ Small Business Technology Transfer	06	3,582	3,628	3,820	U
166	0605797D8Z	Maintaining Technology Advantage	06	24,735	26,807	35,414	U
167	0605798D8Z	Defense Technology Analysis	06	22,544	35,149	56,114	U
168	0605801KA	Defense Technical Information Center (DTIC)	06	58,810	61,453	63,184	U
169	0605803SE	R&D in Support of DoD Enlistment, Testing and Evaluation	06	29,420	21,762	23,757	U
170	0605804D8Z	Development Test and Evaluation	06	26,240	27,280	26,652	U

Page D-10

UNCLASSIFIED

UNCLASSIFIED

Defense-Wide
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

<u>Line No</u>	<u>Program Element Number</u>	<u>Item</u>	<u>Act</u>	<u>FY 2021 (Base + OCO)</u>	<u>FY 2022 Enactment</u>	<u>FY 2023 Request</u>	<u>Se c</u>
171	0605898E	Management HQ - R&D	06	14,154	12,740	14,636	U
172	0605998KA	Management HQ - Defense Technical Information Center (DTIC)	06	2,837	3,549	3,518	U
173	0606100D8Z	Budget and Program Assessments	06	10,729	13,994	15,244	U
174	0606114D8Z	Analysis Working Group (AWG) Support	06			4,700	U
175	0606135D8Z	Chief Digital and Artificial Intelligence Officer (CDAO) Activities	06			13,132	U
176	0606225D8Z	ODNA Technology and Resource Analysis	06	3,200	4,897	3,323	U
177	0606300D8Z	Defense Science Board	06			2,532	U
178	0606589D8W	Defense Digital Service (DDS) Development Support	06	999	918		U
179	0606771D8Z	Cyber Resiliency and Cybersecurity Policy	06		31,460	32,306	U
180	0606853BR	Management, Technical & International Support	06			12,354	U
181	0203345D8Z	Defense Operations Security Initiative (DOSI)	06	2,985	2,925	3,034	U
182	0204571J	Joint Staff Analytical Support	06	3,058	977	4,332	U
183	0208045K	C4I Interoperability	06	21,516	55,361	69,698	U
186	0303140SE	Information Systems Security Program	06	1,112	853		U
187	0303166J	Support to Information Operations (IO) Capabilities	06	545			U
188	0303260D8Z	Defense Military Deception Program Office (DMDPO)	06	984	850		U
189	0305172K	Combined Advanced Applications	06	7,462	15,696	16,171	U
191	0305208K	Distributed Common Ground/Surface Systems	06	3,112	3,073	3,072	U
192	0804768J	COCOM Exercise Engagement and Training Transformation (CE2T2) - non-MHA	06	29,292	29,530	37,852	U
193	0808709SE	Defense Equal Opportunity Management Institute (DEOMI)	06	100	689	716	U
194	0901598C	Management HQ - MDA	06	26,902	24,102	25,259	U

UNCLASSIFIED

Page D-11

UNCLASSIFIED

Defense-Wide
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Sec
195	0903235K	Joint Service Provider (JSP)	06	608	2,645	3,141	U
9999	9999999999	Classified Programs		41,583	37,520	37,841	U
		Management Support		1,752,623	1,959,730	1,830,097	
196	0604130V	Enterprise Security System (ESS)	07	9,681	5,355		U
197	0604532K	Joint Artificial Intelligence	07	128,239	148,447		U
198	0605127T	Regional International Outreach (RIO) and Partnership for Peace Information Mana	07	1,756			U
199	0605147T	Overseas Humanitarian Assistance Shared Information System (OHASIS)	07	316			U
200	0607210D8Z	Industrial Base Analysis and Sustainment Support	07	170,207	335,410	588,094	U
201	0607310D8Z	CWMD Systems: Operational Systems Development	07	16,332	18,616	15,427	U
202	0607327T	Global Theater Security Cooperation Management Information Systems (G-TSCMIS)	07	3,992	7,398	8,317	U
203	0607384BP	Chemical and Biological Defense (Operational Systems Development)	07	38,475	58,261	68,030	U
204	0208043J	Planning and Decision Aid System (PDAS)	07	3,039			U
205	0208045K	C4I Interoperability	07	75,853			U
209	0302019K	Defense Info Infrastructure Engineering and Integration	07	17,080	16,233	19,145	U
210	0303126K	Long-Haul Communications - DCS	07	10,343	10,275	13,195	U
211	0303131K	Minimum Essential Emergency Communications Network (MEECN)	07	5,392	4,892	5,746	U
212	0303136G	Key Management Infrastructure (KMI)	07	73,356	83,751	92,018	U
213	0303140D8Z	Information Systems Security Program	07	46,529	69,191	43,135	U
214	0303140G	Information Systems Security Program	07	394,713	447,745	593,831	U
215	0303140K	Information Systems Security Program	07	6,217	5,707	7,005	U
216	0303150K	Global Command and Control System	07	73,630	4,150	10,020	U

UNCLASSIFIED

Defense-Wide
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

<u>Line No</u>	<u>Program Element Number</u>	<u>Item</u>	<u>Act</u>	<u>FY 2021 (Base + OCO)</u>	<u>FY 2022 Enactment</u>	<u>FY 2023 Request</u>	<u>S e c</u>
217	0303153K	Defense Spectrum Organization	07	18,123	19,302	19,708	U
218	0303167K	Pre-Auction Spectrum Relocation Fund	07	247			U
219	0303228K	Joint Regional Security Stacks (JRSS)	07	12,433	9,342		U
220	0303267K	Auctioned Spectrum Relocation Fund	07	6,858			U
221	0303430V	Federal Investigative Services Information Technology	07		15,326	5,197	U
222	0303667K	Citizen Broadband Radio System	07	16,501			U
223	0303767D8Z	AMBIT - Pre-Auctioned SRF	07	15,420			U
226	0305104D8Z	Defense Industrial Base (DIB) Cyber Security Initiative	07			10,000	U
229	0305128V	Security and Investigative Activities	07	5,700	8,800	450	U
230	0305133V	Industrial Security Activities	07			1,800	U
233	0305146V	Defense Joint Counterintelligence Activities	07	4,000	3,820	4,622	U
234	0305172D8Z	Combined Advanced Applications	07			49,380	U
235	0305172K	Combined Advanced Applications	07	12,582			U
237	0305186D8Z	Policy R&D Programs	07	6,322	4,591	6,214	U
238	0305199D8Z	Net Centricity	07	20,994	13,132	17,917	U
240	0305208BB	Distributed Common Ground/Surface Systems	07	6,062	5,994	6,095	U
243	0305208K	Distributed Common Ground/Surface Systems	07	2,955			U
246	0305245D8Z	Intelligence Capabilities and Innovation Investments	07		60,000	4,575	U
247	0305251K	Cyberspace Operations Forces and Force Support	07			2,497	U
248	0305327V	Insider Threat	07	3,000	3,000	9,403	U
249	0305387D8Z	Homeland Defense Technology Transfer Program	07	2,140	1,273	1,864	U
257	0708012K	Logistics Support Activities	07	1,654	1,690	1,620	U

UNCLASSIFIED

Page D-13

UNCLASSIFIED

Defense-Wide
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Sec
258	0708012S	Pacific Disaster Centers	07	1,720	5,733	1,875	U
259	0708047S	Defense Property Accountability System	07	7,034	6,157	3,264	U
260	0903235K	Joint Service Provider (JSP)	07	1,405			U
261	1105219BB	MQ-9 UAV	07	20,489	63,065	14,000	U
262	1160279BB	Small Business Innovative Research/Small Bus Tech Transfer Pilot Prog	07	26,995			U
263	1160403BB	Aviation Systems	07	239,991	173,537	179,499	U
264	1160405BB	Intelligence Systems Development	07	26,519	30,399	75,136	U
265	1160408BB	Operational Enhancements	07	164,711	179,230	142,900	U
266	1160431BB	Warrior Systems	07	67,226	125,473	129,133	U
267	1160432BB	Special Programs	07	7,220	10,486	518	U
268	1160434BB	Unmanned ISR	07	17,154	18,006	3,354	U
269	1160480BB	SOF Tactical Vehicles	07	13,736	7,703	13,594	U
270	1160483BB	Maritime Systems	07	66,037	62,630	82,645	U
271	1160489BB	Global Video Surveillance Activities	07	4,602			U
272	1160490BB	Operational Enhancements Intelligence	07	11,603	15,990	7,583	U
273	1203610K	Teleport Program	07	2,699		1,270	U
9999	9999999999	Classified Programs		4,818,025	5,385,634*	7,854,604	U
		Operational Systems Development		6,707,307	7,445,744	10,114,680	
274	0608197V	National Background Investigation Services - Software Pilot Program	08	105,673	123,570	132,524	U
275	0608648D8Z	Acquisition Visibility - Software Pilot Program	08	16,220	18,204	17,123	U
276	0608775D8Z	Accelerate the Procurement and Fielding of Innovative Technologies (APFIT)	08			100,000	U

*Includes \$11,345K enacted funding pursuant to the Ukraine Supplemental Appropriation Act (Public Law 117-103).

UNCLASSIFIED

Defense-Wide
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Se
277	0303150K	Global Command and Control System	08		32,774	34,987	U
281	0308588D8Z	Algorithmic Warfare Cross Functional Teams - Software Pilot Program	08	229,943	275,352*		U
282	0308609V	National Industrial Security Systems (NISS) - Software Pilot Program	08			14,749	U
9999	9999999999	Classified Programs				265,028	U
		Software And Digital Technology Pilot Programs		351,836	449,900	564,411	
		Total Research, Development, Test & Eval, DW		25,998,380	29,099,203	32,077,552	

*Includes \$27,900K enacted funding pursuant to the Ukraine Supplemental Appropriation Act (Public Law 117-103).

Defense-Wide
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

<u>Summary Recap of Budget Activities</u>	<u>FY 2021</u> <u>(Base + OCO)</u>	<u>FY 2022</u> <u>Enactment</u>	<u>FY 2023</u> <u>Request</u>
Management Support	257,120	276,591	277,194
Total Research, Development, Test & Evaluation	257,120	276,591	277,194
 <u>Summary Recap of FYDP Programs</u>			
Research and Development	257,120	276,591	277,194
Total Research, Development, Test & Evaluation	257,120	276,591	277,194

Defense-Wide
FY 2023 President's Budget
Exhibit R-1 FY 2023 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Apr 2022

Appropriation: 0460D Operational Test & Eval, Defense

Line	Program Element	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	S e c
1	06051180TE	Operational Test and Evaluation	06	113,133	105,394	119,529	U
2	06051310TE	Live Fire Test and Evaluation	06	74,048	103,549	99,947	U
3	06058140TE	Operational Test Activities and Analyses	06	69,939	67,648	57,718	U
		Management Support		----- 257,120	----- 276,591	----- 277,194	
				----- 257,120	----- 276,591	----- 277,194	
Total Operational Test & Eval, Defense				257,120	276,591	277,194	

UNCLASSIFIED

Chemical and Biological Defense Program
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

Line	Program Element	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	S e c
8	0601384BP	Chemical and Biological Defense Program	01	46,644	37,208	34,734	U
	Basic Research			46,644	37,208	34,734	
19	0602384BP	Chemical and Biological Defense Program	02	189,042	209,956	256,197	U
	Applied Research			189,042	209,956	256,197	
49	0603384BP	Chemical and Biological Defense Program - Advanced Development	03	184,348	197,824	238,407	U
	Advanced Technology Development			184,348	197,824	238,407	
79	0603884BP	Chemical and Biological Defense Program - Dem/Val	04	78,825	133,945	291,364	U
	Advanced Component Development & Prototypes			78,825	133,945	291,364	
127	0604384BP	Chemical and Biological Defense Program - EMD	05	353,472	299,848	312,148	U
	System Development & Demonstration			353,472	299,848	312,148	
157	0605384BP	Chemical and Biological Defense Program	06	125,455	115,503	124,475	U
158	0605502BP	Small Business Innovative Research - Chemical Biological Def	06	26,967			U
	Management Support			152,422	115,503	124,475	
203	0607384BP	Chemical and Biological Defense (Operational Systems Development)	07	38,475	58,261	68,030	U
	Operational Systems Development			38,475	58,261	68,030	
Total Chemical and Biological Defense Program				1,043,228	1,052,545	1,325,355	

Defense Advanced Research Projects Agency
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Se
2	0601101E	Defense Research Sciences	01	449,322	443,842	401,870	U
5	0601117E	Basic Operational Medical Research Science	01	57,542	77,518	80,874	U
Basic Research				506,864	521,360	482,744	
11	0602115E	Biomedical Technology	02	98,319	108,698	106,958	U
17	0602303E	Information & Communications Technology	02	405,789	480,363	388,270	U
18	0602383E	Biological Warfare Defense	02	26,082	31,421	23,059	U
22	0602702E	Tactical Technology	02	230,211	207,515	221,883	U
23	0602715E	Materials and Biological Technology	02	238,215	308,024	352,976	U
24	0602716E	Electronics Technology	02	307,791	393,384	557,745	U
Applied Research				1,306,407	1,529,405	1,650,891	
40	0603286E	Advanced Aerospace Systems	03	216,283	194,043	253,135	U
41	0603287E	Space Programs and Technology	03	144,463	181,524	81,888	U
60	0603739E	Advanced Electronics Technologies	03	92,989	140,716	250,917	U
61	0603760E	Command, Control and Communications Systems	03	220,184	251,794	305,050	U
62	0603766E	Network-Centric Warfare Technology	03	628,540	668,271	678,562	U
63	0603767E	Sensor Technology	03	189,051	294,792	314,502	U
Advanced Technology Development				1,491,510	1,731,140	1,884,054	
148	0605001E	Mission Support	06	75,246	73,145	86,869	U
162	0605502E	Small Business Innovative Research	06	109,867			U
171	0605898E	Management HQ - R&D	06	14,154	12,740	14,636	U
Management Support				199,267	85,885	101,505	
Total Defense Advanced Research Projects Agency				3,504,048	3,867,790	4,119,194	

Page D-19

Defense Contract Audit Agency
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

Line	Program Element	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	S e c
118	0300206R	Enterprise Information Technology Systems	04	2,118	2,568	2,664	U
		Advanced Component Development & Prototypes		2,118	2,568	2,664	
Total Defense Contract Audit Agency				2,118	2,568	2,664	

Defense Contract Management Agency
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

Line	Program Element	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	S e c
130	0605013BL	Information Technology Development	05	2,789	4,265	1,244	U
		System Development & Demonstration		2,789	4,265	1,244	
		Total Defense Contract Management Agency		2,789	4,265	1,244	

Defense Counterintelligence & Security Agency
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Se
196	0604130V	Enterprise Security System (ESS)	07	9,681	5,355		U
221	0303430V	Federal Investigative Services Information Technology	07		15,326	5,197	U
229	0305128V	Security and Investigative Activities	07	5,700	8,800	450	U
230	0305133V	Industrial Security Activities	07			1,800	U
233	0305146V	Defense Joint Counterintelligence Activities	07	4,000	3,820	4,622	U
248	0305327V	Insider Threat	07	3,000	3,000	9,403	U
Operational Systems Development				22,381	36,301	21,472	
274	0608197V	National Background Investigation Services - Software Pilot Program	08	105,673	123,570	132,524	U
282	0308609V	National Industrial Security Systems (NISS) - Software Pilot Program	08			14,749	U
Software And Digital Technology Pilot Programs				105,673	123,570	147,273	
Total Defense Counterintelligence & Security Agency				128,054	159,871	168,745	

Defense Human Resources Activity
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Se
131	0605021SE	Homeland Personnel Security Initiative	05	7,287	7,205	6,191	U
		System Development & Demonstration		7,287	7,205	6,191	
169	0605803SE	R&D in Support of DoD Enlistment, Testing and Evaluation	06	29,420	21,762	23,757	U
186	0303140SE	Information Systems Security Program	06	1,112	853		U
193	0808709SE	Defense Equal Opportunity Management Institute (DEOMI)	06	100	689	716	U
		Management Support		30,632	23,304	24,473	
Total Defense Human Resources Activity				37,919	30,509	30,664	

UNCLASSIFIED

Defense Information Systems Agency
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

<u>Line No</u>	<u>Program Element Number</u>	<u>Item</u>	<u>Act</u>	<u>FY 2021 (Base + OCO)</u>	<u>FY 2022 Enactment</u>	<u>FY 2023 Request</u>	<u>S e c</u>
183	0208045K	C4I Interoperability	06	21,516	55,361	69,698	U
189	0305172K	Combined Advanced Applications	06	7,462	15,696	16,171	U
191	0305208K	Distributed Common Ground/Surface Systems	06	3,112	3,073	3,072	U
195	0903235K	Joint Service Provider (JSP)	06	608	2,645	3,141	U
Management Support				32,698	76,775	92,082	
197	0604532K	Joint Artificial Intelligence	07	128,239	148,447		U
205	0208045K	C4I Interoperability	07	75,853			U
209	0302019K	Defense Info Infrastructure Engineering and Integration	07	17,080	16,233	19,145	U
210	0303126K	Long-Haul Communications - DCS	07	10,343	10,275	13,195	U
211	0303131K	Minimum Essential Emergency Communications Network (MEECN)	07	5,392	4,892	5,746	U
215	0303140K	Information Systems Security Program	07	6,217	5,707	7,005	U
216	0303150K	Global Command and Control System	07	73,630	4,150	10,020	U
217	0303153K	Defense Spectrum Organization	07	18,123	19,302	19,708	U
218	0303167K	Pre-Auction Spectrum Relocation Fund	07	247			U
219	0303228K	Joint Regional Security Stacks (JRSS)	07	12,433	9,342		U
220	0303267K	Auctioned Spectrum Relocation Fund	07	6,858			U
222	0303667K	Citizen Broadband Radio System	07	16,501			U
235	0305172K	Combined Advanced Applications	07	12,582			U
243	0305208K	Distributed Common Ground/Surface Systems	07	2,955			U
247	0305251K	Cyberspace Operations Forces and Force Support	07			2,497	U
257	0708012K	Logistics Support Activities	07	1,654	1,690	1,620	U
260	0903235K	Joint Service Provider (JSP)	07	1,405			U

UNCLASSIFIED

Page D-24

Defense Information Systems Agency
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

Line	Program Element No	Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	S e c
273	1203610K		Teleport Program	07	2,699		1,270	U
			Operational Systems Development		392,211	220,038	80,206	
277	0303150K		Global Command and Control System	08		32,774	34,987	U
			Software And Digital Technology Pilot Programs			32,774	34,987	
Total Defense Information Systems Agency					424,909	329,587	207,275	

UNCLASSIFIED

Defense Logistics Agency
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Se c
55	0603680S	Manufacturing Technology Program	03	66,632	81,262	46,166	U
56	0603712S	Generic Logistics R&D Technology Demonstrations	03	14,507	11,987	13,663	U
58	0603720S	Microelectronics Technology Development and Support	03	131,718	202,475	139,833	U
Advanced Technology Development				212,857	295,724	199,662	
134	0605070S	DOD Enterprise Systems Development and Demonstration	05	1,327	654		U
136	0605080S	Defense Agency Initiatives (DAI) - Financial System	05	21,403	31,136	23,171	U
System Development & Demonstration				22,730	31,790	23,171	
163	0605502S	Small Business Innovative Research	06	8,606	11,500		U
Management Support				8,606	11,500		
258	0708012S	Pacific Disaster Centers	07	1,720	5,733	1,875	U
259	0708047S	Defense Property Accountability System	07	7,034	6,157	3,264	U
Operational Systems Development				8,754	11,890	5,139	
Total Defense Logistics Agency				252,947	350,904	227,972	

Defense Security Cooperative Agency
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

<u>Line No</u>	<u>Program Element Number</u>	<u>Item</u>	<u>Act</u>	<u>FY 2021 (Base + OCO)</u>	<u>FY 2022 Enactment</u>	<u>FY 2023 Request</u>	<u>S e c</u>
198	0605127T	Regional International Outreach (RIO) and Partnership for Peace Information Mana	07	1,756			U
199	0605147T	Overseas Humanitarian Assistance Shared Information System (OHASIS)	07	316			U
202	0607327T	Global Theater Security Cooperation Management Information Systems (G-TSCMIS)	07	3,992	7,398	8,317	U
Operational Systems Development				6,064	7,398	8,317	
Total Defense Security Cooperative Agency				6,064	7,398	8,317	

Defense Technical Information Center
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

<u>Line No</u>	<u>Element Number</u>	<u>Program Item</u>	<u>Act</u>	<u>FY 2021 (Base + OCO)</u>	<u>FY 2022 Enactment</u>	<u>FY 2023 Request</u>	<u>S e c</u>
168	0605801KA	Defense Technical Information Center (DTIC)	06	58,810	61,453	63,184	U
172	0605998KA	Management HQ - Defense Technical Information Center (DTIC)	06	2,837	3,549	3,518	U
Management Support				61,647	65,002	66,702	
Total Defense Technical Information Center				61,647	65,002	66,702	

Defense Threat Reduction Agency
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	S e c
1	0601000BR	DTRA Basic Research	01	14,244	11,828	11,584	U
Basic Research				14,244	11,828	11,584	
13	0602134BR	Improvised Threat Reduction Applied Research	02	3,699			U
25	0602718BR	Counter Weapons of Mass Destruction Applied Research	02	159,004	197,011	192,162	U
Applied Research				162,703	197,011	192,162	
33	0603134BR	Counter Improvised-Threat Simulation	03	3,861			U
34	0603160BR	Counter Weapons of Mass Destruction Advanced Technology Development	03	331,325	409,862	395,721	U
35	0603176BR	Advanced Concepts and Performance Assessment	03			6,505	U
Advanced Technology Development				335,186	409,862	402,226	
98	0604134BR	Counter Improvised-Threat Demonstration, Prototype Development, and Testing	04	19,931			U
105	0604551BR	Catapult	04		7,166	7,130	U
Advanced Component Development & Prototypes				19,931	7,166	7,130	
129	0605000BR	Counter Weapons of Mass Destruction Systems Development	05	15,250	14,063	14,403	U
137	0605141BR	Mission Assurance Risk Management System (MARMS)	05	5,500	5,500	14,093	U
System Development & Demonstration				20,750	19,563	28,496	
159	0605502BR	Small Business Innovation Research	06	14,241			U
180	0606853BR	Management, Technical & International Support	06			12,354	U
Management Support				14,241		12,354	
Total Defense Threat Reduction Agency				567,055	645,430	653,952	

UNCLASSIFIED

Missile Defense Agency
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Sec
36	0603176C	Advanced Concepts and Performance Assessment	03	49,069	40,000	16,737	U
37	0603180C	Advanced Research	03	29,621	47,966	22,023	U
45	0603294C	Common Kill Vehicle Technology	03	10,793			U
Advanced Technology Development				89,483	87,966	38,760	
77	0603881C	Ballistic Missile Defense Terminal Defense Segment	04	305,081	213,382	190,216	U
78	0603882C	Ballistic Missile Defense Midcourse Defense Segment	04	1,195,853	724,028	667,524	U
80	0603884C	Ballistic Missile Defense Sensors	04	259,605	254,962	231,134	U
81	0603890C	BMD Enabling Programs	04	607,167	623,644	591,847	U
82	0603891C	Special Programs - MDA	04	380,204	413,374	316,977	U
83	0603892C	AEGIS BMD	04	861,809	639,549	600,072	U
84	0603896C	Ballistic Missile Defense Command and Control, Battle Management and Communicati	04	639,027	564,946	589,374	U
85	0603898C	Ballistic Missile Defense Joint Warfighter Support	04	49,261	50,594	50,269	U
86	0603904C	Missile Defense Integration & Operations Center (MDIOC)	04	54,026	52,403	49,367	U
87	0603906C	Regarding Trench	04	10,213	11,952	12,146	U
88	0603907C	Sea Based X-Band Radar (SBX)	04	120,063	147,241	164,668	U
89	0603913C	Israeli Cooperative Programs	04	300,000	300,000	300,000	U
90	0603914C	Ballistic Missile Defense Test	04	364,994	389,156	367,824	U
91	0603915C	Ballistic Missile Defense Targets	04	534,348	560,478	559,513	U
95	0604102C	Guam Defense Development	04		112,400	397,936	U
96	0604115C	Technology Maturation Initiatives	04	105,895	39,200		U
99	0604181C	Hypersonic Defense	04	267,589	287,796	225,477	U
107	0604672C	Homeland Defense Radar - Hawaii (HDR-H)	04	133,000	75,000		U

Page D-30

UNCLASSIFIED

UNCLASSIFIED

Missile Defense Agency
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Se c
110	0604873C	Long Range Discrimination Radar (LRDR)	04	135,088	133,335	75,120	U
111	0604874C	Improved Homeland Defense Interceptors	04	843,899	884,125	1,833,357	U
112	0604876C	Ballistic Missile Defense Terminal Defense Segment Test	04	1,000	32,697	69,762	U
113	0604878C	Aegis BMD Test	04	71,481	111,206	182,776	U
114	0604879C	Ballistic Missile Defense Sensor Test	04	64,245	77,428	88,326	U
115	0604880C	Land-Based SM-3 (LBSM3)	04	52,804	43,158	27,678	U
116	0604887C	Ballistic Missile Defense Midcourse Segment Test	04	67,071	61,424	84,075	U
117	0202057C	Safety Program Management	04		2,323	2,417	U
120	0305103C	Cyber Security Initiative	04	1,122	1,142	1,165	U
122	1206893C	Space Tracking & Surveillance System	04	33,356	15,176		U
123	1206895C	Ballistic Missile Defense System Space Programs	04	161,267	292,811	129,957	U
Advanced Component Development & Prototypes				7,619,468	7,114,930	7,808,977	
160	0605502C	Small Business Innovation Research - MDA	06	114,633			U
194	0901598C	Management HQ - MDA	06	26,902	24,102	25,259	U
Management Support				141,535	24,102	25,259	
Total Missile Defense Agency				7,850,486	7,226,998	7,872,996	

National Security Agency
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

<u>Line No</u>	<u>Element Number</u>	<u>Program Item</u>	<u>Act</u>	<u>FY 2021 (Base + OCO)</u>	<u>FY 2022 Enactment</u>	<u>FY 2023 Request</u>	<u>S e c</u>
212	0303136G	Key Management Infrastructure (KMI)	07	73,356	83,751	92,018	U
214	0303140G	Information Systems Security Program	07	394,713	447,745	593,831	U
		Operational Systems Development		-----	-----	-----	
Total National Security Agency				-----	-----	-----	

UNCLASSIFIED

Office of Secretary of Defense
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Se c
3	0601108D8Z	High Energy Laser Research Initiatives	01		20,342	16,257	U
4	0601110D8Z	Basic Research Initiatives	01	72,992	76,702	62,386	U
6	0601120D8Z	National Defense Education Program	01	132,522	144,841	132,347	U
7	0601228D8Z	Historically Black Colleges and Universities/Minority Institutions	01	77,017	99,902	33,288	U
Basic Research				282,531	341,787	244,278	
9	0601228D8Z	Historically Black Colleges and Universities/Minority Institutions	02	1,280			U
10	0602000D8Z	Joint Munitions Technology	02	24,098	20,529	18,961	U
12	0602128D8Z	Promotion and Protection Strategies	02			3,275	U
14	0602230D8Z	Defense Technology Innovation	02	17,109	17,428	20,634	U
15	0602234D8Z	Lincoln Laboratory Research Program	02	38,338	55,516	46,159	U
16	0602251D8Z	Applied Research for the Advancement of S&T Priorities	02	51,675	58,982	67,666	U
20	0602668D8Z	Cyber Security Research	02	24,328	25,331	17,264	U
21	0602675D8Z	Social Sciences for Environmental Security	02			4,000	U
26	0602751D8Z	Software Engineering Institute (SEI) Applied Research	02	9,216	9,571	11,030	U
27	0602890D8Z	High Energy Laser Research	02		45,852	48,587	U
Applied Research				166,044	233,209	237,576	
29	0603000D8Z	Joint Munitions Advanced Technology	03	21,625	30,140	34,065	U
30	0603121D8Z	SO/LIC Advanced Development	03	4,904	4,665	4,919	U
31	0603122D8Z	Combating Terrorism Technology Support	03	140,882	141,876	72,614	U
32	0603133D8Z	Foreign Comparative Testing	03	23,651	25,352	26,802	U
38	0603183D8Z	Joint Hypersonic Technology Development & Transition	03		51,178	52,156	U
39	0603225D8Z	Joint DoD-DoE Munitions Technology Development	03	18,809	19,003	18,898	U

UNCLASSIFIED

Office of Secretary of Defense
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Sec
42	0603288D8Z	Analytic Assessments	03	19,107	23,936	24,052	U
43	0603289D8Z	Advanced Innovative Analysis and Concepts	03	28,008	46,351	53,890	U
44	0603291D8Z	Advanced Innovative Analysis and Concepts - MHA	03	14,168			U
46	0603338D8Z	Defense Modernization and Prototyping	03	150,480	96,579	141,561	U
47	0603342D8Z	Defense Innovation Unit (DIU)	03	34,401	26,749	42,925	U
48	0603375D8Z	Technology Innovation	03	25,884	39,761	109,535	U
50	0603527D8Z	RETRACT LARCH	03	90,918	98,862	79,493	U
51	0603618D8Z	Joint Electronic Advanced Technology	03	14,773	18,164	19,218	U
52	0603648D8Z	Joint Capability Technology Demonstrations	03	69,482	102,345	114,100	U
53	0603662D8Z	Networked Communications Capabilities	03	5,692	2,975	3,168	U
54	0603680D8Z	Defense-Wide Manufacturing Science and Technology Program	03	237,098	255,244	256,142	U
57	0603716D8Z	Strategic Environmental Research Program	03	79,661	91,571	58,411	U
59	0603727D8Z	Joint Warfighting Program	03	3,727	2,157	2,411	U
64	0603769D8Z	Distributed Learning Advanced Technology Development	03	6,588	6,056	201	U
65	0603781D8Z	Software Engineering Institute	03	12,128	14,631	13,417	U
66	0603924D8Z	High Energy Laser Advanced Technology Program	03	109,113	83,159	111,149	U
67	0603941D8Z	Test & Evaluation Science & Technology	03	171,891	464,850	315,090	U
68	0603950D8Z	National Security Innovation Network	03	38,532	36,203	22,028	U
69	0604055D8Z	Operational Energy Capability Improvement	03	15,413	108,482	180,170	U
70	0303367D8Z	Spectrum Access Research and Development	03	11,096			U
71	0909999D8Z	Financing for Cancelled Account Adjustments	03	903			U
Advanced Technology Development				1,348,934	1,790,289	1,756,415	

UNCLASSIFIED

Office of Secretary of Defense
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

Line	Program Element No	Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	S e c
74	0603161D8Z		Nuclear and Conventional Physical Security Equipment RDT&E ADC&P	04	31,634	28,525	41,507	U
75	0603600D8Z		WALKOFF	04	98,841	108,652	133,795	U
76	0603851D8Z		Environmental Security Technical Certification Program	04	72,135	122,737	84,638	U
92	0603923D8Z		Coalition Warfare	04	9,975	5,074	11,154	U
93	0604011D8Z		Next Generation Information Communications Technology (5G)	04	428,127	336,485	249,591	U
94	0604016D8Z		Department of Defense Corrosion Program	04	5,240	3,241	3,166	U
97	0604124D8Z		Chief Digital and Artificial Intelligence Officer (CDAO) - MIP	04			33,950	U
100	0604250D8Z		Advanced Innovative Technologies	04	732,208	777,199	1,145,358	U
101	0604294D8Z		Trusted & Assured Microelectronics	04	489,251	704,091	647,226	U
102	0604331D8Z		Rapid Prototyping Program	04	89,318	137,349	179,189	U
103	0604341D8Z		Defense Innovation Unit (DIU) Prototyping	04	30,108	16,178	24,402	U
104	0604400D8Z		Department of Defense (DoD) Unmanned System Common Development	04	6,825	7,762	2,691	U
106	0604555D8Z		Operational Energy Capability Improvement - Non S&T	04		23,069	45,779	U
108	0604682D8Z		Wargaming and Support for Strategic Analysis (SSA)	04	3,341	3,409	3,229	U
119	0303191D8Z		Joint Electromagnetic Technology (JET) Program	04	997			U
			Advanced Component Development & Prototypes		1,998,000	2,273,771	2,605,675	
124	0604123D8Z		Chief Digital and Artificial Intelligence Officer (CDAO) - Dem/Val Activities	05			273,340	U
125	0604161D8Z		Nuclear and Conventional Physical Security Equipment RDT&E SDD	05	7,045	5,650	6,482	U
126	0604165D8Z		Prompt Global Strike Capability Development	05	89,156			U
128	0604771D8Z		Joint Tactical Information Distribution System (JTIDS)	05	49,458	21,292	9,120	U
132	0605022D8Z		Defense Exportability Program	05	12,649	5,416	10,145	U
133	0605027D8Z		OUSD(C) IT Development Initiatives	05	9,883	16,892	5,938	U

Page D-35

UNCLASSIFIED

UNCLASSIFIED

Office of Secretary of Defense
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Se c
135	0605075D8Z	CMO Policy and Integration	05	1,295			U
138	0605210D8Z	Defense-Wide Electronic Procurement Capabilities	05	7,970	7,108	6,949	U
139	0605294D8Z	Trusted & Assured Microelectronics	05	104,180	113,536	302,963	U
140	0605772D8Z	Nuclear Command, Control, & Communications	05	3,547	3,969	3,758	U
141	0305304D8Z	DoD Enterprise Energy Information Management (EEIM)	05	3,152	2,214	8,121	U
142	0305310D8Z	CWMD Systems: System Development and Demonstration	05	19,817	20,132	16,048	U
		System Development & Demonstration		308,152	196,209	642,864	
144	0604774D8Z	Defense Readiness Reporting System (DRRS)	06	9,586	7,167	8,902	U
145	0604875D8Z	Joint Systems Architecture Development	06	8,180	7,815	6,610	U
146	0604940D8Z	Central Test and Evaluation Investment Development (CTEIP)	06	407,678	994,151	819,358	U
147	0604942D8Z	Assessments and Evaluations	06	18,296	17,879	4,607	U
149	0605100D8Z	Joint Mission Environment Test Capability (JMETC)	06	76,146	71,410	126,079	U
151	0605128D8Z	Classified Program USD(P)	06	110,000	108,112		U
152	0605142D8Z	Systems Engineering	06	44,168	39,904	39,009	U
153	0605151D8Z	Studies and Analysis Support - OSD	06	6,720	4,612	5,716	U
154	0605161D8Z	Nuclear Matters-Physical Security	06	16,013	14,348	15,379	U
155	0605170D8Z	Support to Networks and Information Integration	06	9,230	4,759	9,449	U
156	0605200D8Z	General Support to OUSD(Intelligence and Security)	06	7,904	10,452	6,112	U
161	0605502D8Z	Small Business Innovative Research	06	156,944			U
165	0605790D8Z	Small Business Innovation Research (SBIR)/ Small Business Technology Transfer	06	3,582	3,628	3,820	U
166	0605797D8Z	Maintaining Technology Advantage	06	24,735	26,807	35,414	U
167	0605798D8Z	Defense Technology Analysis	06	22,544	35,149	56,114	U

Page D-36

UNCLASSIFIED

UNCLASSIFIED

Office of Secretary of Defense
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Se
170	0605804D8Z	Development Test and Evaluation	06	26,240	27,280	26,652	U
173	0606100D8Z	Budget and Program Assessments	06	10,729	13,994	15,244	U
174	0606114D8Z	Analysis Working Group (AWG) Support	06			4,700	U
175	0606135D8Z	Chief Digital and Artificial Intelligence Officer (CDAO) Activities	06			13,132	U
176	0606225D8Z	ODNA Technology and Resource Analysis	06	3,200	4,897	3,323	U
177	0606300D8Z	Defense Science Board	06			2,532	U
179	0606771D8Z	Cyber Resiliency and Cybersecurity Policy	06		31,460	32,306	U
181	0203345D8Z	Defense Operations Security Initiative (DOSI)	06	2,985	2,925	3,034	U
188	0303260D8Z	Defense Military Deception Program Office (DMDPO)	06	984	850		U
Management Support				965,864	1,427,599	1,237,492	
200	0607210D8Z	Industrial Base Analysis and Sustainment Support	07	170,207	335,410	588,094	U
201	0607310D8Z	CWMD Systems: Operational Systems Development	07	16,332	18,616	15,427	U
213	0303140D8Z	Information Systems Security Program	07	46,529	69,191	43,135	U
223	0303767D8Z	AMBIT - Pre-Auctioned SRF	07	15,420			U
226	0305104D8Z	Defense Industrial Base (DIB) Cyber Security Initiative	07			10,000	U
234	0305172D8Z	Combined Advanced Applications	07			49,380	U
237	0305186D8Z	Policy R&D Programs	07	6,322	4,591	6,214	U
238	0305199D8Z	Net Centricity	07	20,994	13,132	17,917	U
246	0305245D8Z	Intelligence Capabilities and Innovation Investments	07		60,000	4,575	U
249	0305387D8Z	Homeland Defense Technology Transfer Program	07	2,140	1,273	1,864	U
Operational Systems Development				277,944	502,213	736,606	
275	0608648D8Z	Acquisition Visibility - Software Pilot Program	08	16,220	18,204	17,123	U

UNCLASSIFIED

Office of Secretary of Defense
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Element Number	Program Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Se c
276	0608775D8Z	Accelerate the Procurement and Fielding of Innovative Technologies (APFIT)	08			100,000	U
281	0308588D8Z	Algorithmic Warfare Cross Functional Teams - Software Pilot Program	08	229,943	275,352		U
		Software And Digital Technology Pilot Programs		246,163	293,556	117,123	
Total Office of Secretary of Defense				5,593,632	7,058,633	7,578,029	

Space Development Agency
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

Line	Program Element	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	S e c
73	1206310SDA	Space Science and Technology Research and Development	03	69,914	172,638		U
		Advanced Technology Development		69,914	172,638		
121	1206410SDA	Space Technology Development and Prototyping	04	187,953	1,204,179		U
		Advanced Component Development & Prototypes		187,953	1,204,179		
164	0605502SDA	Small Business Innovative Research	06	9,249			U
		Management Support		9,249			
Total Space Development Agency				267,116	1,376,817		

UNCLASSIFIED

U.S., Special Operations Command
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

Line	Program Element	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	S e c
28	1160401BB	SOF Technology Development	02	47,657	51,329	49,174	U
	Applied Research			47,657	51,329	49,174	
72	1160402BB	SOF Advanced Technology Development	03	92,656	112,415	118,877	U
	Advanced Technology Development			92,656	112,415	118,877	
240	0305208BB	Distributed Common Ground/Surface Systems	07	6,062	5,994	6,095	U
261	1105219BB	MQ-9 UAV	07	20,489	63,065	14,000	U
262	1160279BB	Small Business Innovative Research/Small Bus Tech Transfer Pilot Prog	07	26,995			U
263	1160403BB	Aviation Systems	07	239,991	173,537	179,499	U
264	1160405BB	Intelligence Systems Development	07	26,519	30,399	75,136	U
265	1160408BB	Operational Enhancements	07	164,711	179,230	142,900	U
266	1160431BB	Warrior Systems	07	67,226	125,473	129,133	U
267	1160432BB	Special Programs	07	7,220	10,486	518	U
268	1160434BB	Unmanned ISR	07	17,154	18,006	3,354	U
269	1160480BB	SOF Tactical Vehicles	07	13,736	7,703	13,594	U
270	1160483BB	Maritime Systems	07	66,037	62,630	82,645	U
271	1160489BB	Global Video Surveillance Activities	07	4,602			U
272	1160490BB	Operational Enhancements Intelligence	07	11,603	15,990	7,583	U
	Operational Systems Development			672,345	692,513	654,457	
Total U.S., Special Operations Command				812,658	856,257	822,508	

UNCLASSIFIED

The Joint Staff
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Se c
109	0604826J	Joint C5 Capability Development, Integration and interoperability Assessments	04	18,115	17,439	40,699	U
Advanced Component Development & Prototypes				18,115	17,439	40,699	
143	0603829J	Joint Capability Experimentation	06	10,730	8,444	12,452	U
150	0605126J	Joint Integrated Air and Missile Defense Organization (JIAMDO)	06	50,255	52,671	53,278	U
182	0204571J	Joint Staff Analytical Support	06	3,058	977	4,332	U
187	0303166J	Support to Information Operations (IO) Capabilities	06	545			U
192	0804768J	COCOM Exercise Engagement and Training Transformation (CE2T2) - non-MHA	06	29,292	29,530	37,852	U
Management Support				93,880	91,622	107,914	
204	0208043J	Planning and Decision Aid System (PDAS)	07	3,039			U
Operational Systems Development				3,039			
Total The Joint Staff				115,034	109,061	148,613	

Washington Headquarters Services
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

Line	Program Element	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	S e c
178	0606589D8W	Defense Digital Service (DDS) Development Support	06	999	918		U
		Management Support		999	918		
Total Washington Headquarters Services				999	918		

Inspector General
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Non RDT&E Title
 (Dollars in Thousands)

Apr 2022

<u>Summary Recap of Budget Activities</u>	<u>FY 2021</u> <u>(Base + OCO)</u>	<u>FY 2022</u> <u>Enactment</u>	<u>FY 2023</u> <u>Request</u>
RDT&E	1,098	2,365	1,864
Total Research, Development, Test & Evaluation	1,098	2,365	1,864
 <u>Summary Recap of Non-RDT&E Title FYDP Programs</u>			
Administration and Associated Activities	1,098	2,365	1,864
Total Research, Development, Test & Evaluation	1,098	2,365	1,864

UNCLASSIFIED

Inspector General
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Non RDT&E Title
 (Dollars in Thousands)

Apr 2022

Appropriation: 0107D Office of the Inspector General

<u>Line No</u>	<u>Program Element Number</u>	<u>Item</u>	<u>Act</u>	<u>FY 2021 (Base + OCO)</u>	<u>FY 2022 Enactment</u>	<u>FY 2023 Request</u>	<u>S e c</u>
1	0901517X	Inspector General, DoD, Audit, Intelligence and Non-Criminal Investigative Activ	02	1,098	2,365	1,864	U
		RDT&E		----- 1,098	----- 2,365	----- 1,864	
		Total Office of the Inspector General		----- 1,098	----- 2,365	----- 1,864	

Defense Health Agency
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Non RDT&E Title
 (Dollars in Thousands)

Apr 2022

<u>Summary Recap of Budget Activities</u>	<u>FY 2021</u> <u>(Base + OCO)</u>	<u>FY 2022</u> <u>Enactment</u>	<u>FY 2023</u> <u>Request</u>
RDT&E	2,395,081	2,633,488	909,994
Total Research, Development, Test & Evaluation	2,395,081	2,633,488	909,994
 <u>Summary Recap of Non-RDT&E Title FYDP Programs</u>			
Research and Development	2,395,081	2,633,488	909,994
Total Research, Development, Test & Evaluation	2,395,081	2,633,488	909,994

UNCLASSIFIED

Defense Health Agency
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Non RDT&E Title
 (Dollars in Thousands)

Apr 2022

Appropriation: 0130D Defense Health Program

Line No	Program Element Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	Se
1	0601117DHA	Basic Operational Medical Research Science	02	8,913	9,091	39,568	U
2	0602115DHA	Applied Biomedical Technology	02	72,573	84,024	174,009	U
3	0602787DHA	Medical Technology	02	1,411	1,439	1,468	U
4	0603002DHA	Medical Advanced Technology	02	352	359	366	U
5	0603115DHA	Medical Development	02	1,994,152	2,193,397	320,496	U
6	0604110DHA	Medical Products Support and Advanced Concept Development	02	149,831	176,860	166,960	U
7	0605013DHA	Information Technology Development	02	16,344	10,866	9,834	U
8	0605026DHA	Information Technology Development- DoD Healthcare Management System Modernizati	02	18,336	15,751	12,024	U
9	0605045DHA	Joint Operational Medicine Information System	02	46,214	52,948	18,082	U
10	0605145DHA	Medical Products and Support Systems Development	02	21,068	21,489	64,030	U
11	0606105DHA	Medical Program-Wide Activities	02	48,672	49,645	85,186	U
12	0607100DHA	Medical Products and Capabilities Enhancement Activities	02	17,215	17,619	17,971	U
RDT&E				2,395,081	2,633,488	909,994	
Total Defense Health Program				2,395,081	2,633,488	909,994	

Department of the Army
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Non RDT&E Title
 (Dollars in Thousands)

Apr 2022

<u>Summary Recap of Budget Activities</u>	<u>FY 2021 (Base + OCO)</u>	<u>FY 2022 Enactment</u>	<u>FY 2023 Request</u>
Research, Development, Test, And Evaluation	942,493	1,000,131	975,206
Total Research, Development, Test & Evaluation	942,493	1,000,131	975,206
 <u>Summary Recap of Non-RDT&E Title FYDP Programs</u>			
Central Supply and Maintenance	942,493	1,000,131	975,206
Total Research, Development, Test & Evaluation	942,493	1,000,131	975,206

UNCLASSIFIED

Department of the Army
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Non RDT&E Title
 (Dollars in Thousands)

Apr 2022

Appropriation: 0390D Chem Agents & Munitions Destruction

Line	Program Element No	Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request	S e c
1	0708081D		Chemical Materials Agency	02	6,494	6,120	3,464	U
2	0708083D		Assembled Chemical Weapons Alternatives	02	935,999	994,011	971,742	U
			Research, Development, Test, And Evaluation		942,493	1,000,131	975,206	
			Total Chem Agents & Munitions Destruction		942,493	1,000,131	975,206	

Department of the Navy
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Non RDT&E Title
 (Dollars in Thousands)

Apr 2022

<u>Summary Recap of Budget Activities</u>	<u>FY 2021 (Base + OCO)</u>	<u>FY 2022 Enactment</u>	<u>FY 2023 Request</u>
Research and Development	57		
Total Research, Development, Test & Evaluation	57		
 <u>Summary Recap of Non-RDT&E Title FYDP Programs</u>			
Mobility Forces	57		
Total Research, Development, Test & Evaluation	57		

Department of the Navy
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Non RDT&E Title
 (Dollars in Thousands)

Apr 2022

Appropriation: 4557N National Defense Sealift Fund

Program				FY 2021	FY 2022	FY 2023	S
Line	Element			(Base + OCO)	Enactment	Request	e
<u>No</u>	<u>Number</u>	<u>Item</u>	<u>Act</u>				<u>c</u>
1	0408042N	National Defense Sealift Fund	04	57			U
		Research and Development		57			
Total National Defense Sealift Fund				57			