Department of Defense FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

25 Feb 2019

Appropriation	FY 2018 (Base + OCO)	FY 2019 Base Enacted	FY 2019 Total Enacted
Research, Development, Test & Eval, DW	3,088,620	3,427,049	3,427,049
Total Research, Development, Test & Evaluation	3,088,620	3,427,049	3,427,049

Department of Defense FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

FY 2020

25 Feb 2019

Appropriation	FY 2020 Base	FY 2020 OCO for Base Requirements	Direct War and Enduring Costs	FY 2020 Total OCO	FY 2020 Total (Base + OCO)
					
Research, Development, Test & Eval, DW	3,556,221				3,556,221
Total Research, Development, Test & Evaluation	3,556,221			•	3,556,221

Department of Defense FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

25 Feb 2019

Summary Recap of Budget Activities	FY 2018 (Base + OCO)	FY 2019 Base Enacted	FY 2019 OCO Enacted	FY 2019 Total Enacted
Basic Research	445,577	469,255		469,255
Applied Research	1,251,635	1,407,118		1,407,118
Advanced Technology Development	1,212,318	1,471,387		1,471,387
Management Support	179,090	79,289		79,289
Total Research, Development, Test & Evaluation	3,088,620	3,427,049		3,427,049
Summary Recap of FYDP Programs				
Research and Development	3,088,620	3,427,049		3,427,049
Total Research, Development, Test & Evaluation	3,088,620	3,427,049		3,427,049

Department of Defense FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

25 Feb 2019

Summary Recap of Budget Activities	FY 2020 Base	FY 2020 OCO for Base Requirements	FY 2020 OCO for Direct War and Enduring Costs	FY 2020 Total OCO	fy 2020 Total (Base + OCO)
Basic Research	486,406				486,406
Applied Research	1,468,685				1,468,685
Advanced Technology Development	1,519,424				1,519,424
Management Support	81,706		·		81,706
Total Research, Development, Test & Evaluation	3,556,221				3,556,221
Summary Recap of FYDP Programs					
Research and Development	3,556,221				3,556,221
Total Research, Development, Test & Evaluation	3,556,221				3,556,221

Defense-Wide FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

25 Feb 2019

Summary Recap of Budget Activities	FY 2018 (Base + OCO)	FY 2019 Base Enacted	FY 2019 OCO Enacted	FY 2019 Total Enacted
Basic Research	445,577	469,255		469,255
Applied Research	1,251,635	1,407,118	•	1,407,118
Advanced Technology Development	1,212,318	1,471,387		1,471,387
Management Support	179,090	79,289		79,289
Total Research, Development, Test & Evaluation	3,088,620	3,427,049		3,427,049
Summary Recap of FYDP Programs				
Research and Development	3,088,620	3,427,049		3,427,049
Total Research, Development, Test & Evaluation	3,088,620	3,427,049		3,427,049

Defense-Wide FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

25 Feb 2019

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Summary Recap of Budget Activities	FY 2020 Base	FY 2020 OCO for Base Requirements	Direct War and Enduring Costs	FY 2020 Total OCO	FY 2020 Total (Base + OCO)
Basic Research	486,406				486,406
Applied Research	1,468,685				1,468,685
Advanced Technology Development	1,519,424		•		1,519,424
Management Support	81,706				81,706
Total Research, Development, Test & Evaluation	3,556,221				3,556,221
Summary Recap of FYDP Programs					
Research and Development	3,556,221				3,556,221
Total Research, Development, Test & Evaluation	3,556,221				3,556,221

Defense-Wide FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

25 Feb 2019

Appropriation	FY 2018 (Base + OCO)	FY 2019 Base Enacted	FY 2019 OCO Enacted	FY 2019 Total Enacted
Defense Advanced Research Projects Agency	3,088,620	3,427,049		3,427,049
Total Research, Development, Test & Evaluation	3,088,620	3,427,049		3,427,049

Defense-Wide FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

25 Feb 2019

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Appropriation	FY 2020 Base	FY 2020 OCO for Base Requirements	Direct War and Enduring Costs	FY 2020 Total OCO	FY 2020 Total (Base + OCO)	
Defense Advanced Research Projects Agency	3,556,221				3,556,221	
Total Research, Development, Test & Evaluation	3,556,221				3,556,221	

Defense-Wide FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget

Total Obligational Authority
(Dollars in Thousands)

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

Line No	Program Element Number	Item	Act 	FY 2018 (Base + OCO)	FY 2019 Base Enacted	FY 2019 OCO Enacted	FY 2019 Total Enacted	S e C
2	0601101E	Defense Research Sciences	01	403,448	422,680		422,680	U
4	0601117E	Basic Operational Medical Research Science	01	42,129	46,575		46,575	υ
	Basic	Research		445,577	469,255	,	469,255	
9	0602115E	Biomedical Technology	02	88,962	101,300		101,300	U
13	0602303E	Information & Communications Technology	02	379,578	404,967		404,967	U
14	0602383E	Biological Warfare Defense	02	15,078	33,640		33,640	U
17	0602702E	Tactical Technology	02	292,957	309,466		309,466	U
18	0602715E	Materials and Biological Technology	02	191,880	208,898		208,898	U
19	0602716E	Electronics Technology	02	283,180	348,847		348,847	U
	Appli	ed Research		1,251,635	1,407,118		1,407,118	
33	0603286E	Advanced Aerospace Systems	03	176,200	302,463		302,463	Ũ
34	0603287E	Space Programs and Technology	03	226,988	254,671		254,671	Ū
54	0603739E	Advanced Electronics Technologies	03	73,673	111,099		111,099	Ū
55	0603760E	Command, Control and Communications Systems	03	103,577	185,984		185,984	Ū
56	0603766E	Network-Centric Warfare Technology	03	429,691	434,069		434,069	U
57	0603767E	Sensor Technology	03	202,189	183,101		183,101	U
	Advan	ced Technology Development		1,212,318	1,471,387		1,471,387	
147	0605001E	Mission Support	06	64,269	65,646		65,646	U
162	0605502E	Small Business Innovative Research	06	100,804				U

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Defense-Wide FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

25 Feb 2019

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

Line No 	Program Element Number	Item	Act 	FY 2020 Base	FY 2020 OCO for Base Requirements	FY 2020 OCO for Direct War and Enduring Costs	FY 2020 Total OCO	FY 2020 Total (Base + OCO)	s e c
. 2	0601101E	Defense Research Sciences	01,	432,284				432,284	Ū
4	0601117E	Basic Operational Medical Research Science	01	54,122				54,122	U
	Basic	Research		486,406				486,406	
9	0602115E	Biomedical Technology	02	97,771				97,771	U
13	0602303E	Information & Communications Technology	02	442,556	•			442,556	U
. 14	0602383E	Biological Warfare Defense	02	34,588				34,588	U
17	0602702E	Tactical Technology	02	337,602				337,602	U
18	0602715E	Materials and Biological Technology	02	223,976		•		223,976	U
19	0602716E	Electronics Technology	02	332,192				332,192	U
	Appli	ed Research		1,468,685				1,468,685	
33	0603286E	Advanced Aerospace Systems	03	279,741	•			279,741	U
34	0603287E	Space Programs and Technology	03	202,606				202,606	U
54	0603739E	Advanced Electronics Technologies	03	128,616				128,616	ŋ
55	0603760E	Command, Control and Communications Systems	03	232,134				232,134	U
56	0603766E	Network-Centric Warfare Technology	03	512,424				512,424	U
57	0603767E	Sensor Technology	03	163,903				163,903	U
	Advan	aced Technology Development		1,519,424				1,519,424	
147	0605001E	Mission Support	06	68,498				68,498	U
162	0605502E	Small Business Innovative Research	06						U

Defense-Wide FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

25 Feb 2019

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

Line No	Program Element Number	Item	Act 	FY 2018 (Base + OCO)	FY 2019 Base Enacted	FY 2019 OCO Enacted	FY 2019 e Total Enacted c
172	0605898E	Management HQ - R&D	06	14,017	13,643		13,643 U
	Manag	gement Support		179,090	79,289		79,289
Tota	l Research,	Development, Test & Eval, DW		3,088,620	3,427,049		3,427,049

Defense-Wide FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

25 Feb 2019

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

						OCO for			
Line No	Program Element Number	Item	Act	FY 2020 Base	FY 2020 OCO for Base Requirements	Direct War and Enduring Costs	FY 2020 Total OCO		s e c
									-
172	0605898E	Management HQ - R&D	06	13,208				13,208	U
	Manag	gement Support		81,706				81,706	
Tota	l Research.	, Development, Test & Eval, DW		3,556,221				3,556,221	

Defense Advanced Research Projects Agency FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

25 Feb 2019

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

Line No	Program Element Number	Item	Act	FY 2018 (Base + OCO)	FY 2019 Base Enacted	FY 2019 OCO Enacted	FY 2019 Total Enacted	s e c
2	0601101E	Defense Research Sciences	01	403,448	422,680	•	422,680	U
4	0601117E	Basic Operational Medical Research Science	01	42,129	46,575		46,575	U
Ва	asic Resear	ch		445,577	469,255		469,255	
9	0602115E	Biomedical Technology	02	88,962	101,300		101,300	U
13	0602303E	Information & Communications Technology	02	379,578	404,967		404,967	U
14	0602383E	Biological Warfare Defense	02	15,078	33,640		33,640	U
17	0602702E	Tactical Technology	02	292,957	309,466		309,466	U
18	0602715E	Materials and Biological Technology	02	191,880	208,898		208,898	U
19	0602716E	Electronics Technology	02	283,180	348,847		348,847	Ū
Aj	pplied Rese	arch		1,251,635	1,407,118	uu	1,407,118	
33	0603286E	Advanced Aerospace Systems	03	176,200	302,463		302,463	U
34	0603287E	Space Programs and Technology	03	226,988	254,671		254,671	U
54	0603739E	Advanced Electronics Technologies	03	73,673	111,099		111,099	U
55	0603760E	Command, Control and Communications Systems	03	103,577	185,984		185,984	U
56	0603766E	Network-Centric Warfare Technology	03	429,691	434,069		434,069	U
57	0603767E	Sensor Technology	03	202,189	183,101		183,101	U
A	dvanced Tec	hnology Development		1,212,318	1,471,387		1,471,387	
147	0605001E	Mission Support	06	64,269	65,646		65,646	Ū
162	0605502E	Small Business Innovative Research	06	100,804				U

Defense Advanced Research Projects Agency FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

25 Feb 2019

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

Line No	Program Element Number	Item	Act	FY 2020 Base	FY 2020 QCO for Base Requirements	FY 2020 OCO for Direct War and Enduring Costs	FY 2020 Total OCO	FY 2020 Total (Base + OCO)	S e c
2	0601101E	Defense Research Sciences	01	432,284		•		432,284	U
4	0601117E	Basic Operational Medical Research Science	01	54,122				54,122	U
В	asic Resear	rch		486,406				486,406	
9	0602115E	Biomedical Technology	02	97,771				97,771	U
13	0602303E	Information & Communications Technology	02 .	442,556				442,556	U
14	0602383E	Biological Warfare Defense	02	34,588				34,588	U
17	0602702E	Tactical Technology	02	337,602				337,602	U
18	0602715E	Materials and Biological Technology	02	223,976		•	•	223,976	U
19	0602716E	Electronics Technology	02	332,192			•	332,192	υ
A	pplied Rese	earch	٠	1,468,685				1,468,685	
33	0603286E	Advanced Aerospace Systems	03	279,741			•	279,741	U
34	0603287E	Space Programs and Technology	03	202,606				202,606	U
54	0603739E	Advanced Electronics Technologies	03	128,616				128,616	Ü
55	0603760E	Command, Control and Communications Systems	03.	232,134				232,134	U
56	0603766E	Network-Centric Warfare Technology	03	512,424		•		512,424	U
57	0603767E	Sensor Technology	03	163,903				163,903	U
A	dvanced Tec	chnology Development		1,519,424				1,519,424	
147	0605001E	Mission Support	06	68,498				68,498	U
162	0605502E	Small Business Innovative Research	06						U

Defense Advanced Research Projects Agency FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

25 Feb 2019

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

Line No	Program Element Number	Item	Act	FY 2018 (Base + OCO)	FY 2019 Base Enacted	FY 2019 OCO Enacted	FY 2019	S e C
172	0605898E	Management HQ - R&D	06	14,017	13,643		13,643	U
М	anagement 8	Support		179,090	79,289	, , , , , , , , , , , , , , , , , , , ,	79,289	
Tota	l Defense a	Advanced Research Projects Agency		3,088,620	3,427,049		3,427,049	

Defense Advanced Research Projects Agency
FY 2020 President's Budget
Exhibit R-1 FY 2020 President's Budget
Total Obligational Authority
(Dollars in Thousands)

25 Feb 2019

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

Program Line Element No Number Item	Act	FY 2020 Base	FY 2020 OCO for Base Requirements	OCO for Direct War and Enduring Costs	FY 2020 Total OCO	FY 2020 Total (Base + OCO)	s e c
172 0605898E Management HQ - R&D	06	13,208			e.	13,208	Ū
Management Support		81,706				81,706	
Total Defense Advanced Research Projects Agency		3,556,221				3,556,221	