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 OCO Enacted	FY 2019 Total Enacted
Research, Development, Test & Eval, DW	1,056,761	998,721		998,721
Total Research, Development, Test & Evaluation	1,056,761	998,721		998,721

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 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)
Research, Development, Test & Eval, DW	1,052,406				1,052,406
Total Research, Development, Test & Evaluation	1,052,406				1,052,406

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 OCO Enacted	FY 2019 Total Enacted
Basic Research	43,769	42,103		42,103
Applied Research	199,466	192,674		192,674
Advanced Technology Development	141,242	142,826		142,826
Advanced Component Development And Prototypes	135,322	115,886		115,886
System Development And Demonstration	368,151	358,608		358,608
Management Support	125,179	102,883		102,883
Operational System Development	43,632	43,741		43,741
Total Research, Development, Test & Evaluation	1,056,761	998,721		998,721
Summary Recap of FYDP Programs				
Research and Development	1,056,761	998,721		998,721
Total Research, Development, Test & Evaluation	1,056,761	998,721		998,721

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

Summary Recap of Budget Activities	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)
Basic Research	45,238				45,238
Applied Research	202,587		•		202,587
Advanced Technology Development	172,486				172,486
Advanced Component Development And Prototypes	83,662				83,662
System Development And Demonstration	384,047				384,047
Management Support	110,363				110,363
Operational System Development	54,023				54,023
Total Research, Development, Test & Evaluation	1,052,406				1,052,406
Summary Recap of FYDP Programs					
Research and Development	1,052,406				1,052,406
Total Research, Development, Test & Evaluation	1,052,406				1,052,406

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)		
Basic Research	43,769	42,103	42,103
Applied Research	199,466	192,674	192,674
Advanced Technology Development	141,242	142,826	142,826
Advanced Component Development And Prototypes	135,322	115,886	115,886
System Development And Demonstration	368,151	358,608	358,608
Management Support	125,179	102,883	102,883
Operational System Development	43,632	43,741	43,741
Total Research, Development, Test & Evaluation	1,056,761	998,721	998,721
Summary Recap of FYDP Programs			
Research and Development	1,056,761	998,721	998,721
Total Research, Development, Test & Evaluation	1,056,761	998,721	998,721

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

FY 2020

25 Feb 2019

	FY 2020	FY 2020 OCO for Base	OCO for Direct War and Enduring	FY 2020 Total	FY 2020 Total
Summary Recap of Budget Activities	Base	Requirements	Costs	oco	(Base + OCO)
Basic Research	45,238				45,238
Applied Research	202,587				202,587
Advanced Technology Development	172,486				172,486
Advanced Component Development And Prototypes	83,662				83,662
System Development And Demonstration	384,047				384,047
Management Support	110,363				110,363
Operational System Development	54,023				54,023
Total Research, Development, Test & Evaluation	1,052,406				1,052,406
Summary Recap of FYDP Programs					
Research and Development	1,052,406				1,052,406
Total Research, Development, Test & Evaluation	1,052,406				1,052,406

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
Chemical and Biological Defense Program	1,056,761	998,721		998,721
Total Research, Development, Test & Evaluation	1,056,761	998,721		998,721

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 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)
Chemical and Biological Defense Program	1,052,406				1,052,406
Total Research, Development, Test & Evaluation	1,052,406				1,052,406

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

	Program Element Number	Item	Act	FY 2018 (Base + OCO)	FY 2019 Base Enacted	FY 2019 OCO Enacted	FY 2019 Total Enacted	s e c
7		Chemical and Biological Defense Program	01	43,769	42,103		42,103	U
	Basic	Research		43,769	42,103		42,103	
15	0602384BP	Chemical and Biological Defense Program	02	199,466	·		192,674	
	Appli	ed Research		199,466	192,674		192,674	
42	0603384BP	Chemical and Biological Defense Program - Advanced Development	03	141,242	142,826		142,826	U
	Advan	ced Technology Development		141,242	142,826		142,826	
76	0603884BP	Chemical and Biological Defense Program - Dem/Val	04	135,322	•		115,886	
	Advan	ced Component Development And Protot	ypes	135,322	115,886		115,886	
125	0604384BP	Chemical and Biological Defense Program - EMD	05	368,151	·		358,608	
	Syster	n Development And Demonstration		368,151	358,608		358,608	
157	0605384BP	Chemical and Biological Defense Program	06	105,122	102,883		102,883	U
158	0605502BP	Small Business Innovative Research - Chemical Biological Def	06	20,057				U
	Manage	ement Support		125,179	102,883		102,883	•
202	0607384BP	Chemical and Biological Defense (Operational Systems Development)	07	43,632	43,741		43,741	
	Operat	tional System Development		43,632	43,741		43,741	•
Total	. Research,	Development, Test & Eval, DW		1,056,761	998,721		998,721	•

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

	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
									_
7	0601384BP	Chemical and Biological Defense Program	01	45,238				45,238	Ū
	D:-	Research						45 000	
	Basic	Research		45,238				45,238	
15	0602384BP	Chemical and Biological Defense Program	02	202,587				202,587	U
	Appli	ed Research		202,587				202,587	
42	0603384BP	Chemical and Biological Defense Program - Advanced Development	03	172,486				172,486	υ
	2 4	and Markualagu Davidanment						_	
	Advan	ced Technology Development		172,486				172,486	
76	0603884BP	Chemical and Biological Defense Program - Dem/Val	04	83,662				83,662	υ
	Advan	ced Component Development And Protot	ypes	83,662				83,662	
125	0604384BP	Chemical and Biological Defense Program - EMD	05	384,047				384,047	U
	Systa	m Development And Demonstration		384,047				384,047	
	Syste	m bevelopment And bemonstration		304,047				304,047	
157	0605384BP	Chemical and Biological Defense Program	06	110,363				110,363	U
158	0605502BP	Small Business Innovative Research - Chemical Biological Def	06						U
	Manag	ement Support		110,363				110,363	
202	0607384BP	Chemical and Biological Defense (Operational Systems Development)	07	54,023				54,023	U
	•	bland Gustan Baralamant		F4 000					
	Opera	tional System Development		54,023				54,023	
Tota	l Research,	Development, Test & Eval, DW		1,052,406				1,052,406	

Chemical and Biological Defense Program 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 Element Number	Item 	Act	FY 2018 (Base + OCO)	FY 2019 Base Enacted	FY 2019 OCO Enacted	FY 2019 Total Enacted	S e c
7	0601384BP	Chemical and Biological Defense Program	01	43,769	42,103		42,103	U
Ва	asic Resear	rch		43,769	42,103		42,103	
15	0602384BP	Chemical and Biological Defense Program	02	199,466	192,674		192,674	U
Aj	pplied Rese	earch		199,466	192,674		192,674	
42	0603384BP	Chemical and Biological Defense Program - Advanced Development	03	141,242	·		142,826	υ
Ac	dvanced Tec	chnology Development		141,242	142,826		142,826	
76	0603884BP	Chemical and Biological Defense Program - Dem/Val	04	135,322	115,886		115,886	U
Ac	dvanced Com	ponent Development And Prototypes		135,322			115,886	
125	0604384BP	Chemical and Biological Defense Program - EMD	05	368,151	358,608		358,608	U
s	ystem Devel	opment And Demonstration		368,151			358,608	
157	0605384BP	Chemical and Biological Defense Program	06	105,122	102,883		102,883	U
158	0605502BP	Small Business Innovative Research - Chemical Biological Def	06	20,057				U
Ma	anagement S	Support		125,179	102,883		102,883	
202	0607384BP	Chemical and Biological Defense (Operational Systems Development)	07	43,632	43,741		43,741	U
Or	perational	System Development		43,632	43,741		43,741	
Total	l Chemical	and Biological Defense Program		1,056,761	998,721		998,721	

Chemical and Biological Defense Program 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	FY 2020 OCO for Direct War and Enduring Costs	FY 2020 Total OCO	FY 2020 Total (Base + OCO)	S e c
								-
7 0601384F	BP Chemical and Biological Defense Program	01	45,238				45,238	U
Deed - Deed			45 220				45 220	
Basic Rese	earcn		45,238				45,238	
15 06023841	BP Chemical and Biological Defense Program	02	202,587				202,587	U
- • • • -	•							
Applied Re	esearch		202,587				202,587	
42 06033841	BP Chemical and Biological Defense Program - Advanced Development	03	172,486				172,486	U
	Tbu-lawa Danalawana		172 406				172 406	
Advanced :	Technology Development		172,486				172,486	
76 06038841	BP Chemical and Biological Defense Program - Dem/Val	04	83,662				83,662	U
Advanced (Component Development And Prototypes		83,662				83,662	
125 06043841	BP Chemical and Biological Defense Program - EMD	05	384,047				384,047	ט
	Towns to the State Brown of the State		204 045				204 045	
System De	velopment And Demonstration		384,047				384,047	
157 06053841	BP Chemical and Biological Defense Program	06	110,363				110,363	U
158 0605502	BP Small Business Innovative Research - Chemical Biological Def	06						U
Managemen	t Support		110,363				110,363	
202 0607384	BP Chemical and Biological Defense (Operational Systems Development)	07	54,023				54,023	υ
O	al Gustan Barralamment		F4 000				F4 000	
Operation	al System Development		54,023				54,023	
Total Chemica	al and Biological Defense Program		1,052,406				1,052,406	