

Air Force Research Laboratory

Overview

Air Force Research Laboratory (AFRL) is a global technical enterprise, leading the discovery, development, and integration of affordable warfighting technologies for our air, space, and cyberspace force. With a workforce across nine technical directorates and 40 other operations across the globe, AFRL provides a diverse portfolio of science and technology that range from fundamental to advanced research and technology development.

AFRL's technical directorates include Sensors, Space Vehicles, Information, Aerospace Systems, Information, Materials & Manufacturing, Directed Energy, Munitions, the 711th Human Performance Wing, and the Air Force Office of Scientific Research.

Spend Analysis

The following pages highlight the areas where money was spent over the three year period of FY18 – FY20 within AFRL. All data is publically available via the Federal Procurement Data System (FPDS).

Overall Spend

The following table shows the overall spend at AFRL from FY18 – FY20, broken down by the portion that was awarded to other than small businesses vs. small businesses.

	FY18 Total	FY19 Total	FY20 Total
Other Than Small Business	\$2,085,183,761.37	\$2,063,082,692.48	\$2,136,439,454.47
Small Business	\$1,574,312,632.16	\$2,135,066,475.93	\$2,189,738,156.93
Total	\$3,659,496,393.53	\$4,198,149,168.41	\$4,326,177,611.40

Center-wide Top 50 NAICS to Small Business (FY18 – FY20)

The following table shows the top 50 NAICS codes procured across all AFRL locations during the years FY18 – FY20. This data is for Small Business contractors only.

NAICS	Description	FY20 Spend	# FY20	FY19 Spend	# FY19	FY18 Spend	#FY18
541715	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT NANOTECHNOLOGY AND BIOTECHNOLOGY)	\$1,627,501,416	3472	\$1,310,049,468	2691	\$489,244,180	976
541712	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)	\$305,641,772	1290	\$548,645,696	1749	\$796,431,669	2827

541330	ENGINEERING SERVICES	\$127,971,227	262	\$104,488,831	209	\$106,586,238	226
541990	ALL OTHER PROFESSIONAL, SCIENTIFIC, AND TECHNICAL SERVICES	\$35,496,789	271	\$31,085,721	217	\$31,959,225	271
541519	OTHER COMPUTER RELATED SERVICES	\$13,774,122	119	\$2,118,071	42	\$2,675,753	24
561210	FACILITIES SUPPORT SERVICES	\$12,477,489	41	\$11,859,901	26	\$10,476,012	33
517110	WIRED TELECOMMUNICATIONS CARRIERS	\$9,727,264	23	\$10,303,780	27	\$4,603,995	18
541711	RESEARCH AND DEVELOPMENT IN BIOTECHNOLOGY	\$9,445,247	20	\$12,269,078	18	\$13,668,932	34
541511	CUSTOM COMPUTER PROGRAMMING SERVICES	\$8,063,354	22	\$809,999	5	\$664,815	7
561110	OFFICE ADMINISTRATIVE SERVICES	\$6,609,764	70	\$6,871,819	74	\$6,939,961	111
541513	COMPUTER FACILITIES MANAGEMENT SERVICES	\$5,099,655	25	\$23,172	1	\$16,762	1
238220	PLUMBING, HEATING, AND AIR-CONDITIONING CONTRACTORS	\$3,064,850	6	\$63,705	3	\$0	0
611512	FLIGHT TRAINING	\$2,701,660	1	\$2,645,529	2	\$2,613,617	1
334111	ELECTRONIC COMPUTER MANUFACTURING	\$2,568,685	42	\$877,102	12	\$2,552,194	32
541690	OTHER SCIENTIFIC AND TECHNICAL CONSULTING SERVICES	\$1,768,228	6	\$2,969,438	11	\$2,875,882	9
334210	TELEPHONE APPARATUS MANUFACTURING	\$1,750,216	21	\$55,119,601	160	\$78,452,327	245
541512	COMPUTER SYSTEMS DESIGN SERVICES	\$1,687,677	14	\$6,001,730	8	\$10,794,458	15
541713	RESEARCH AND DEVELOPMENT IN NANOTECHNOLOGY	\$1,500,000	5	\$701,603	5	\$562,459	6
334515	INSTRUMENT MANUFACTURING FOR MEASURING AND TESTING ELECTRICITY AND ELECTRICAL SIGNALS	\$1,297,283	18	\$1,783,609	13	\$450,020	6
721110	HOTELS (EXCEPT CASINO HOTELS) AND MOTELS	\$1,288,268	8	\$0	0	\$0	0
236220	COMMERCIAL AND INSTITUTIONAL BUILDING CONSTRUCTION	\$1,273,836	22	\$13,350,476	12	\$959,128	23
334516	ANALYTICAL LABORATORY INSTRUMENT MANUFACTURING	\$1,229,007	9	\$409,422	7	\$369,854	11
511210	SOFTWARE PUBLISHERS	\$964,324	14	\$41,734	3	\$304,600	5
811212	COMPUTER AND OFFICE MACHINE REPAIR AND MAINTENANCE	\$920,709	19	\$103,083	7	\$171,602	16
334310	AUDIO AND VIDEO EQUIPMENT MANUFACTURING	\$596,041	1	\$125,691	2	\$0	0

238210	ELECTRICAL CONTRACTORS AND OTHER WIRING INSTALLATION CONTRACTORS	\$571,880	3	-\$65,001	7	\$1,590,066	14
519120	LIBRARIES AND ARCHIVES	\$499,545	6	\$535,988	7	\$164,564	2
561790	OTHER SERVICES TO BUILDINGS AND DWELLINGS	\$375,582	6	\$353,377	3	\$347,837	2
333517	MACHINE TOOL MANUFACTURING	\$358,026	3	\$0	0	\$0	0
334413	SEMICONDUCTOR AND RELATED DEVICE MANUFACTURING	\$357,749	6	\$129,530	4	\$159,900	1
334220	RADIO AND TELEVISION BROADCASTING AND WIRELESS COMMUNICATIONS EQUIPMENT MANUFACTURING	\$302,691	9	\$102,234	6	\$1,336,084	3
561621	SECURITY SYSTEMS SERVICES (EXCEPT LOCKSMITHS)	\$249,402	9	\$186,504	12	\$150,554	9
333314	OPTICAL INSTRUMENT AND LENS MANUFACTURING	\$234,358	5	\$343,229	9	\$176,638	10
237310	HIGHWAY, STREET, AND BRIDGE CONSTRUCTION	\$201,766	5	\$291,958	3	\$206,315	7
325998	ALL OTHER MISCELLANEOUS CHEMICAL PRODUCT AND PREPARATION MANUFACTURING	\$192,930	2	\$0	0	\$0	0
335314	RELAY AND INDUSTRIAL CONTROL MANUFACTURING	\$175,340	1	\$0	0	\$0	0
337127	INSTITUTIONAL FURNITURE MANUFACTURING	\$173,889	2	\$50,190	2	\$97,606	2
334517	IRRADIATION APPARATUS MANUFACTURING	\$164,790	3	\$334,691	1	\$0	0
811219	OTHER ELECTRONIC AND PRECISION EQUIPMENT REPAIR AND MAINTENANCE	\$162,100	2	\$1,097,839	4	\$66,867	2
336212	TRUCK TRAILER MANUFACTURING	\$156,420	1	\$0	0	\$0	0
541612	OTHER COMPUTER RELATED SERVICES	\$144,000	4	\$497,000	4	\$0	0
562111	SOLID WASTE COLLECTION	\$100,621	1	\$74,105	3	\$74,147	3
336411	AIRCRAFT MANUFACTURING	\$99,500	1	\$0	0	\$0	0
337122	NONUPHOLSTERED WOOD HOUSEHOLD FURNITURE MANUFACTURING	\$91,002	4	\$0	0	\$0	0
561730	LANDSCAPING SERVICES	\$76,650	3	\$76,450	2	\$55,100	2
325992	PHOTOGRAPHIC FILM, PAPER, PLATE, AND CHEMICAL MANUFACTURING	\$66,239	1	\$0	0	\$9,518	2

561499	ALL OTHER BUSINESS SUPPORT SERVICES	\$58,500	1	\$0	0	\$0	0
492110	COURIERS AND EXPRESS DELIVERY SERVICES	\$47,812	1	\$0	0	\$0	0
333912	AIR AND GAS COMPRESSOR MANUFACTURING	\$42,416	2	\$0	0	\$0	0
337214	OFFICE FURNITURE (EXCEPT WOOD) MANUFACTURING	\$39,036	1	\$132,934	7	\$60,939	2

Center-wide Top 50 PSC Codes to Small Business (FY18 – FY20)

The following table shows the top 50 Product and Service codes procured across all AFRL locations during the years FY18 – FY20. This data is for Small Business contractors only.

PCS	Description	FY20 Spend	# FY20	FY19 Spend	# FY19	FY18 Spend	#FY18
AD92	R&D- DEFENSE OTHER: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)	\$606,908,076	2100	\$345,350,454	1189	\$216,064,392	566
AD93	R&D- DEFENSE OTHER: OTHER (ADVANCED DEVELOPMENT)	\$528,140,016	397	\$458,550,498	357	\$306,406,934	445
AC12	R&D- DEFENSE SYSTEM: AIRCRAFT (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)	\$171,042,224	630	\$234,071,023	661	\$161,892,871	659
AC62	R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)	\$160,094,066	275	\$186,219,680	267	\$135,549,933	296
R499	SUPPORT- PROFESSIONAL: OTHER	\$139,696,440	438	\$118,470,485	339	\$115,853,461	423
AC13	R&D- DEFENSE SYSTEM: AIRCRAFT (ADVANCED DEVELOPMENT)	\$92,566,414	66	\$60,914,787	78	\$19,163,120	69
AC22	R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)	\$90,893,034	344	\$170,503,855	371	\$106,852,537	378
AC63	R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (ADVANCED DEVELOPMENT)	\$77,530,938	91	\$97,525,354	112	\$112,928,397	122
AC52	R&D- DEFENSE SYSTEM: WEAPONS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)	\$62,911,677	321	\$68,996,072	301	\$50,333,123	361
AC53	R&D- DEFENSE SYSTEM: WEAPONS (ADVANCED DEVELOPMENT)	\$30,664,807	62	\$29,387,767	72	\$11,991,037	65
AZ12	R&D- OTHER RESEARCH AND DEVELOPMENT (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)	\$16,349,609	54	\$10,927,822	48	\$10,235,940	84

AC23	R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (ADVANCED DEVELOPMENT)	\$16,112,493	57	\$16,013,503	42	\$14,415,697	55
R425	SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL	\$14,997,144	41	\$12,214,202	39	\$17,961,932	46
D399	IT AND TELECOM- OTHER IT AND TELECOMMUNICATIONS	\$12,856,153	42	\$4,952,313	19	\$662,258	1
AZ13	R&D- OTHER RESEARCH AND DEVELOPMENT (ADVANCED DEVELOPMENT)	\$12,367,172	21	\$10,848,721	13	\$9,959,684	19
R405	SUPPORT- PROFESSIONAL: OPERATIONS RESEARCH/QUANTITATIVE ANALYSIS	\$12,183,521	28	\$10,023,339	33	\$14,246,817	52
R410	SUPPORT- PROFESSIONAL: PROGRAM EVALUATION/REVIEW/DEVELOP MENT	\$10,464,594	43	\$7,400,508	33	\$11,161,209	43
J099	MAINT/REPAIR/REBUILD OF EQUIPMENT- MISCELLANEOUS	\$9,390,917	25	\$9,067,210	15	\$8,765,663	18
AD43	R&D- DEFENSE OTHER: TEXTILES/CLOTHING/EQUIPAGE (ADVANCED DEVELOPMENT)	\$9,062,039	13	\$6,262,802	8	\$2,428,029	8
AC11	R&D- DEFENSE SYSTEM: AIRCRAFT (BASIC RESEARCH)	\$8,597,777	63	\$19,048,984	147	\$19,659,365	138
7010	INFORMATION TECHNOLOGY EQUIPMENT SYSTEM CONFIGURATION	\$8,212,909	62	\$8,548,050	78	\$40,281,698	87
AN92	R&D- MEDICAL: OTHER (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)	\$7,556,487	20	\$9,380,240	22	\$8,266,742	13
R699	SUPPORT- ADMINISTRATIVE: OTHER	\$7,446,020	69	\$8,277,965	73	\$7,340,450	98
7030	INFORMATION TECHNOLOGY SOFTWARE	\$6,482,077	77	\$21,904,843	69	\$13,669,694	62
7045	INFORMATION TECHNOLOGY SUPPLIES	\$6,257,940	20	\$0	0	\$0	0
AC61	R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATIO N EQUIPMENT (BASIC RESEARCH)	\$5,858,384	32	\$19,068,266	90	\$12,166,887	61
AC92	R&D- DEFENSE SYSTEM: MISCELLANEOUS HARD GOODS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)	\$5,251,502	6	\$8,224,503	9	\$1,634,515	5
AD91	R&D- DEFENSE OTHER: OTHER (BASIC RESEARCH)	\$5,186,143	37	\$29,262,958	170	\$20,902,795	114
AC21	R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (BASIC RESEARCH)	\$4,194,327	33	\$17,100,477	184	\$7,912,806	79
AC26	R&D- DEFENSE SYSTEM: MISSILE/SPACE SYSTEMS (MANAGEMENT/SUPPORT)	\$3,372,000	18	\$4,554,159	27	\$2,000,951	10
AJ42	R&D- GENERAL SCIENCE/TECHNOLOGY: ENGINEERING (APPLIED	\$3,324,455	14	\$4,825,853	11	\$2,971,311	6

	RESEARCH/EXPLORATORY DEVELOPMENT)						
Z2AA	REPAIR OR ALTERATION OF OFFICE BUILDINGS	\$3,012,900	2	\$0	0	\$0	0
U099	EDUCATION/TRAINING- OTHER	\$2,701,660	1	\$2,645,529	2	\$2,613,617	1
T099	PHOTO/MAP/PRINT/PUBLICATION- OTHER	\$2,201,522	21	\$1,831,888	11	\$1,949,130	12
R706	SUPPORT- MANAGEMENT: LOGISTICS SUPPORT	\$1,969,159	11	\$1,651,346	13	\$531,106	8
AD96	R&D- DEFENSE OTHER: OTHER (MANAGEMENT/SUPPORT)	\$1,746,828	3	\$2,947,038	10	\$2,838,594	8
5895	MISCELLANEOUS COMMUNICATION EQUIPMENT	\$1,657,926	4	\$0	0	\$2,452,992	3
6625	IMAGING EQUIPMENT AND SUPPLIES: MEDICAL, DENTAL, VETERINARY	\$1,611,390	22	\$1,641,173	24	\$499,975	12
AD94	R&D- DEFENSE OTHER: OTHER (ENGINEERING DEVELOPMENT)	\$1,442,289	3	\$2,085,628	6	\$2,111,037	8
AZ11	R&D- OTHER RESEARCH AND DEVELOPMENT (BASIC RESEARCH)	\$1,300,000	1	\$299,582	4	\$298,125	10
AC56	R&D- DEFENSE SYSTEM: WEAPONS (MANAGEMENT/SUPPORT)	\$1,297,062	10	\$0	0	\$0	11
V231	TRANSPORTATION/TRAVEL/RELOCATION- TRAVEL/LODGING/RECRUITMENT: LODGING, HOTEL/MOTEL	\$1,288,268	8	\$0	0	\$0	0
AC64	R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (ENGINEERING DEVELOPMENT)	\$1,283,000	6	\$597,400	2	\$810,000	6
AD52	R&D- DEFENSE OTHER: FUELS/LUBRICANTS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)	\$1,230,021	4	\$923,986	6	\$3,759,006	12
AN73	R&D- MEDICAL: SPECIALIZED MEDICAL SERVICES (ADVANCED DEVELOPMENT)	\$1,207,074	2	\$1,713,653	2	\$4,724,068	4
Z2HB	REPAIR OR ALTERATION OF GOVERNMENT-OWNED GOVERNMENT-OPERATED (GOGO) R&D FACILITIES	\$1,065,195	10	\$711,061	12	\$1,526,287	7
7025	INFORMATION TECHNOLOGY INPUT/OUTPUT AND STORAGE DEVICES	\$997,606	17	\$12,475,571	23	\$6,227,677	107
AC67	R&D- DEFENSE SYSTEM: ELECTRONICS/COMMUNICATION EQUIPMENT (COMMERCIALIZED)	\$954,420	3	\$749,934	1	\$0	0
6640	LABORATORY EQUIPMENT AND SUPPLIES	\$931,682	8	\$614,738	6	\$277,111	7
AC51	R&D- DEFENSE SYSTEM: WEAPONS (BASIC RESEARCH)	\$872,927	13	\$11,685,669	117	\$6,622,495	102