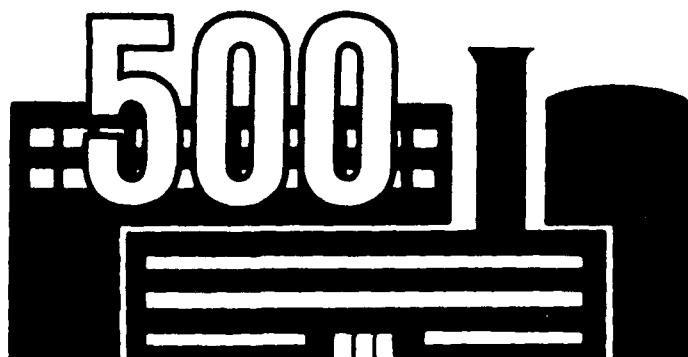


500 CONTRACTORS

RECEIVING THE LARGEST DOLLAR VOLUME
OF PRIME CONTRACT AWARDS
FOR RDT&E

Fiscal Year 1988

AD-A207 967



DISCUSSION STATEMENT A

Approved for public release;
Distribution Unlimited

DTIC
ELECTE
MAY 09 1989
S H D
C/S

500 CONTRACTORS RECEIVING THE LARGEST DOLLAR VOLUME OF PRIME CONTRACT AWARDS FOR RESEARCH, DEVELOPMENT, TEST, AND EVALUATION

Fiscal Year 1988

Department of Defense
Washington Headquarters Services
Directorate for Information
Operations and Reports

~~For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20540~~
DTIC/NTIS identification number for this publication is DIOR/P02-88

FOREWORD

500 Contractors Receiving the Largest Dollar Volume of Prime Contract Awards for Research, Development, Test and Evaluation (RDT&E) is published annually. This report provides information on the 500 contractors that received the largest dollar volume in Department of Defense (DoD) prime contract awards over \$25,000 for RDT&E. These data are presented in five tables showing:

1. An alphabetical listing of the top 500 companies, with rank;
2. The ranking and net value of awards to business firms operating in the United States;
3. The ranking and net value of awards to educational and other nonprofit institutions operating in the United States;
4. The ranking and net value of awards to foreign contractors; and
5. The ranking and net value of awards to U.S. government agencies.



Accession For	
NTIS GRA&I	☒
DTIC TAB	☐
Unannounced	☐
Justification	
By	
Distribution/	
Availability Codes	
Dist	Avail and/or Special
A-1	

TABLE OF CONTENTS

Introduction	1
------------------------	---

Tables:

Table 1. Alphabetical Listing of the Top 500 DoD Prime Contractors for Research, Development, Test, and Evaluation Work: FY 1988	7
Table 2. Net Value of DoD Prime Contract Awards Over \$25,000 for RDT&E to Business Firms: FY 1988	13
Table 3. Net Value of DoD Prime Contract Awards Over \$25,000 for RDT&E to Educational and Non-profit Institutions: FY 1988	29
Table 4. Net Value of DoD Prime Contract Awards Over \$25,000 for RDT&E to Foreign Contractors: FY 1988	33
Table 5. Net Value of DoD Prime Contract Awards Over \$25,000 for RDT&E to U.S. Government Agencies: FY 1988	35

INTRODUCTION

This report presents summary data on the 500 prime contractors receiving the largest dollar volume in Department of Defense (DoD) awards over \$25,000 for research, development, test, and evaluation (RDT&E) work during Fiscal Year (FY) 1988. RDT&E work can include research, exploratory development, advanced development, engineering development, operational systems development, or management and support services. (Full definitions for each of these categories are provided in DFARS 235.001.)

Table 1 (page 7) lists the 500 contractors in alphabetical order, shows the ranking for each, and shows how each has been categorized for reporting purposes. The categories are business firm (B), foreign contractor (F), and nonprofit institution (N). Table 2 (page 13) shows the net value of awards to U.S. business firms by rank. Those firms which qualify as small businesses are further identified by an "S". The net value of awards to each of the firm's reported locations is also provided. Tables 3, 4, and 5 (pages 29, 33, and 35, respectively) provide the net value of awards to U.S. educational and other nonprofit institutions, foreign contractors, and U.S. government agencies. (While awards to U.S. government agencies are listed separately in Table 5, these agencies are categorized as nonprofit institutions in Table 1.) As in Table 2, contractors in Tables 3 through 5 are shown by rank, with their total awards indicated by an "*". The net value of awards to each of the contractor's reported locations are also shown for these tables.

NOTES ON COVERAGE

The dollar amounts shown here include prime contract awards over \$25,000 for RDT&E work only. Data on awards for other services, such as training, and on any supplies furnished by the contractors in support of research being done are excluded. Contract awards for civil functions have been included in these data. Civil functions encompass planning, programming, designing, constructing, and operating Federal water resource projects for navigation, flood control, hydroelectric power production, water supply, and other related activities.

The locations shown in the tables are the places where the work was to be performed. Normally, this is a facility of the concern awarded the contract. However, if the work was scheduled to be performed at a Defense facility, such as an Air Force base, the location shown may be that of the Defense facility rather than the contractor.

DATA RELATING TO COMPANIES IN THIS PUBLICATION ARE SUBJECT TO THE ACCURACY OF THE DUN & BRADSTREET CORPORATION'S DATA UNIVERSAL NUMBERING SYSTEM AND ITS ABILITY TO DESCRIBE RELATIONSHIPS OF COMPANIES.

HIGHLIGHTS

The following table shows the net value and percent distribution of all RDT&E awards, RDT&E awards to the top 500 companies, and all other RDT&E awards for FY 1988.

Department of Defense Prime Contract Awards Over \$25,000 Fiscal Year 1988

TYPE OF CONTRACTOR	TOTAL RDT&E			TOP 500 RDT&E			ALL OTHER RDT&E		
	NUMBER	AWARDS (\$000)	% OF TOTAL \$	NUMBER	AWARDS (\$000)	% OF TOTAL \$	NUMBER	AWARDS (\$000)	% OF TOTAL \$
RDT&E - TOTAL	2,597	22,542,526	100	500	21,877,498	100	2,097	665,028	100
BUSINESS FIRMS	2,160	19,581,456	87	377	19,026,713	87	1,783	554,743	83
Small	1,646	1,413,769	6	174	980,269	4	1,472	433,500	65
Large	514	18,167,687	81	203	18,046,444	82	311	121,243	18
EDUCATIONAL & NONPROFIT	308	2,794,155	12	103	2,709,630	12	205	84,525	13
Educational	205	1,519,897	7	74	1,457,486	7	131	62,411	10
Other Nonprofit	103	1,274,258	6	29	1,252,144	6	74	22,114	3
U.S. GOVERNMENT AGENCIES	8	13,049	*	3	12,142	*	5	907	*
FOREIGN	121	153,866	1	17	129,013	1	104	24,853	4

*LESS THAN 0.5 PERCENT

NOTE: TOTALS MAY NOT ADD DUE TO ROUNDING

Based on the percentage of total awards, the distribution of FY 1988 awards varies moderately from that in FY 1987. In FY 1988, the top 500 contractors included 377 U.S. business firms (174 of which were small businesses); 103 educational and nonprofit institutions; 3 U.S. government agencies; and 17 foreign contractors.

In FY 1987 the top 500 consisted of 380 business firms (178 were small businesses); 100 educational and nonprofit institutions; 3 U.S. government agencies; and 17 foreign contractors.

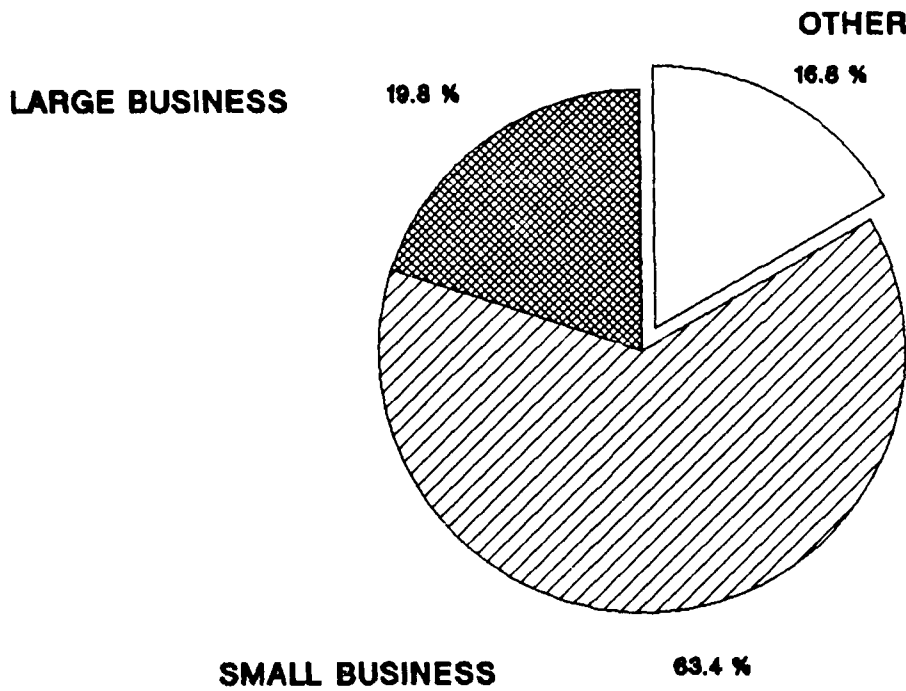
The top 500 RDT&E contractors received awards totaling \$21,877 million in FY 1988, compared to \$21,215 million in FY 1987, an increase of \$662 million or 3.1 percent. The \$21,877 million represents 97.0 percent of the \$22,543 million total prime contract awards over \$25,000 for RDT&E work in FY 1988.

In addition to the top 500 contractors, there were 2,097 other contractors for whom RDT&E procurement actions over \$25,000 were reported, for a total of 2,597 contractors in FY 1988. In FY 1987, the total number of contractors was 2,583.

Of the 37 contractors with RDT&E awards of \$100 million or more in FY 1988, 32 were business firms and 5 were educational and other nonprofit institutions. These 37 contractors had a total of \$16,512 million in RDT&E awards. In FY 1987, there were 37 contractors who reached the \$100 million plateau, with awards totaling \$16,043 million. Of these 37 fiscal year 1987 contractors, 32 were business firms and 5 were educational and other nonprofit institutions. The amount of awards for this \$100 million group increased by \$469 million or 2.9 percent between FY 1987 and 1988.

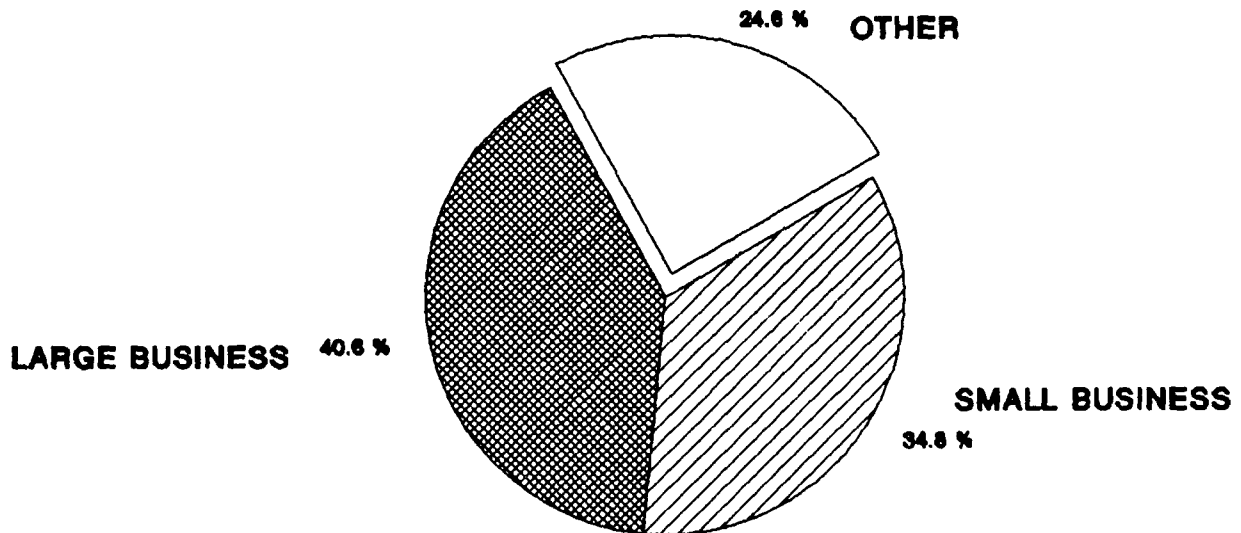
Breakout of the type of contractors receiving RDT&E awards are shown in the charts on the next page. Both of these charts show the number of firms with their associated percentages, and not the percentage of dollars.

TOTAL CONTRACTORS RECEIVING RDT&E DOLLARS
Fiscal Year 1988



TOTAL NUMBER OF FIRMS = 2,597

TOP 500 CONTRACTORS - RDT&E
Fiscal Year 1988

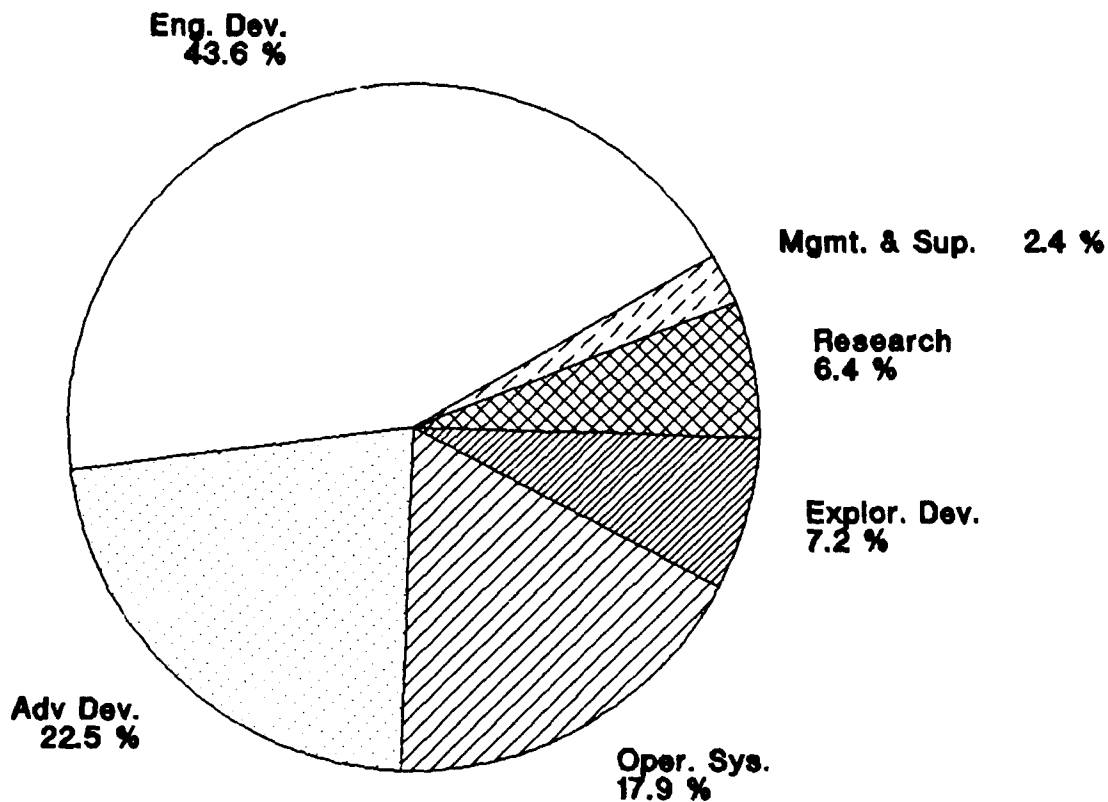


The following table shows the type of RDT&E work the contractors were engaged in and the net value and percent distribution of all awards for each of these types in FY 1988. Engineering development accounted for the majority (43.6 percent) of RDT&E awards, followed by advanced development (22.5 percent).

TYPE	AWARDS (\$000)	PERCENT OF TOTAL
RDT&E - TOTAL	<u>\$22,542,526</u>	<u>100.0</u>
Engineering Development	9,832,514	43.6
Advanced Development	5,072,901	22.5
Operational Systems	4,032,009	17.9
Exploratory Development	1,623,006	7.2
Research	1,443,987	6.4
Management and Support	538,109	2.4

DOLLAR AWARDS BY TYPE OF RDT&E WORK

Fiscal Year 1988



The last table shows the net value and percent distribution of all RDT&E awards by type of program. Within the RDT&E contracts, the largest volume of awards was for the research, development, test, or evaluation of missile & space systems and aircraft. In FY 1988, a combined total of \$12,855 million or 57.0 percent of all RDT&E awards over \$25,000 was for work connected with these programs.

PROGRAM	AWARDS (\$000)	PERCENT OF TOTAL
RDT&E - TOTAL	<u>\$22,542,526</u>	<u>100.0</u>
Missile & Space Systems	7,799,839	34.6
Aircraft	5,055,114	22.4
Electronics & Communication Equipment	3,853,812	17.1
Services	3,464,886	15.4
Ships	523,797	2.3
Weapons	512,706	2.3
Ammunition	478,571	2.1
Tank-Automotive	198,309	0.9
All Other	655,492	2.9

RDT&E DOLLARS AWARDS BY TYPE OF PROGRAM

Fiscal Year 1988

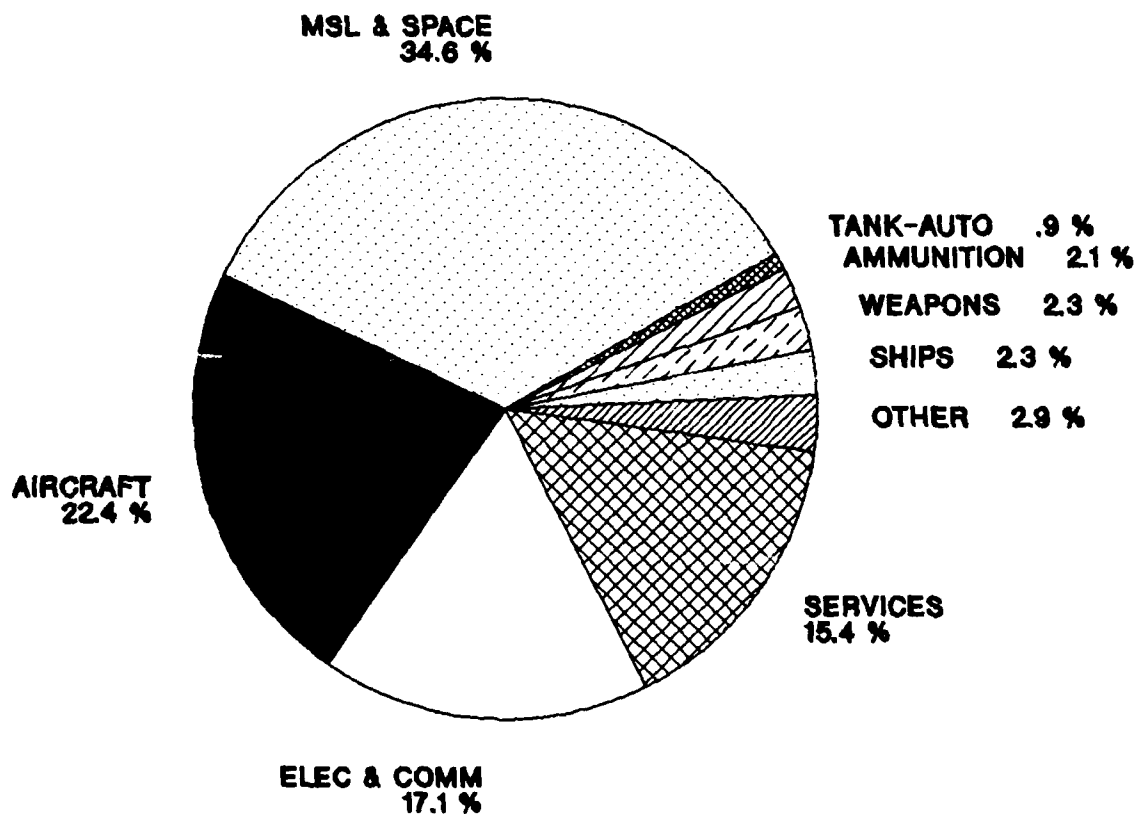


Table 1. Alphabetical Listing of the Top 500 DOD Prime Contractors for Research, Development, Test, and Evaluation Work: FY 1988

RANK	*	CONTRACTOR	RANK	*	CONTRACTOR
111	B	A A I CORPORATION	310	N	AUBURN UNIVERSITY
25	B	A T & T TECHNOLOGIES INC	273	B	AUTOMATED SCIENCES GROUP INC
121	B	ACUREX CORPORATION	371	B	AUTOMETRIC INC
175	B	ADVANCED DECISION SYSTEMS	43	B	AVCO CORPORATION
429	B	ADVANCED DIGITAL SYSTEM INC	51	B	AVCO RESEARCH LABORATORY INC
444	B	ADVANCED RES & APPLICATIONS	339	B	AYDIN CORPORATION
414	B	ADVANCED SCIENCES INC	437	B	B-K DYNAMICS INC
228	B	ADVANCED TECHNOLOGY INC	62	B	BALL CORPORATION
358	B	AEL INDUSTRIES INC	97	N	BATTELLE MEMORIAL INSTITUTE
425	B	AERODYNE RESEARCH INC	50	B	BDM CORPORATION
30	B	AEROJET ELECTROSYSTEMS CO	170	B	BDM MANAGEMENT SERVICES CO
42	B	AEROJET GENERAL CORPORATION	257	B	BECHTEL NATIONAL INC
33	B	AEROJET SOLID PROPULSION CO	12	B	BELL BOEING JV
423	B	AEROLIFT INC	77	B	BELL HELICOPTER TEXTRON INC
214	B	AEROMET INC	298	B	BERKELEY RESEARCH ASSOCIATES
16	N	AEROSPACE CORPORATION	3	B	BOEING COMPANY THE
497	B	AHNTech INC	297	F	CCFORS A B
364	B	ALCOA DEFENSE SYSTEMS INC	55	B	BOLI BERANEK & NEWMAN INC
45	B	ALLIED SIGNAL AEROSPACE CO	86	B	BOOZ ALLEN & HAMILTON INC
267	B	ALLIED SIGNAL INC	264	N	BOSTON UNIVERSITY TRUSTEES OF
315	B	ALPHATECH INC	231	N	BROWN UNIVERSITY
347	B	AM GENERAL CORPORATION	293	B	BRUNSWICK CDC
428	B	AMERICAN OPTICAL CORPORATION	203	B	BRUNSWICK CORPORATION
489	N	AMERICAN SOC FOR ENGRG EDUCATN	499	B	C V D INCORPORATED
123	B	AMERICAN SYSTEMS CORPORATION	394	B	CACI INTERNATIONAL INC
320	B	ANALYSIS & COMPUTER SYSTEMS	177	N	CALIFORNIA INST OF TECHNOLOGY
140	B	ANALYSIS & TECHNOLOGY INC	199	B	CALIFORNIA RES & TECHNOLOGY
71	B	ANALYTIC SCIENCES CORP	48	B	CALSPAN CORPORATION
88	N	ANALYTIC SERVICES INC	234	B	CAMPBELL ENGINEERING INC
202	B	ANALYTICAL SYSTEMS ENGRG CORP	150	F	CANADIAN COMMERCIAL CORPORATN
190	B	ANALYTICS INCORPORATED	471	F	CANADIAN MARCONI COMPANY
261	F	ANDREW ANTENNA GOVERNMENT PRO	58	N	CARNEGIE-MELLON UNIVERSITY
323	B	ANDRULIS RESEARCH CORP	393	B	CAS INC
314	B	APPLIED RESEARCH ASSOC INC	365	N	CASE WESTERN RESERVE UNIV
146	B	APPLIED RESEARCH INC	484	N	CATHOLIC UNIVERSITY OF AMERICA
290	B	APPLIED TECHNOLOGY ASSOCIATES	105	B	CBI NA-CON INC
284	B	APTEK INC	363	B	CELCO INDUSTRIES INC
100	B	AQUA-CHEM INC	165	B	CHAMBERLAIN MANUFACTURING CORP
343	B	AQUIDNECK SYSTEMS INTL	296	B	CINCINNATI ELECTRONICS CORP
270	B	ARES INC	369	N	CLEMSON UNIVERSITY
426	B	ARETE ASSOCIATES	337	B	COLEMAN RESEARCH CORPORATION
479	B	ARGOSYSTEMS INC	36	B	COLLINS INTERNATIONAL SV CO
262	B	ARINC RESEARCH CORPORATION	305	N	COLORADO STATE UNIVERSITY
408	N	ARIZONA STATE UNIVERSITY	94	B	COLSA INC
455	B	ARMAMENT SYSTEMS INC	167	N	COLUMBIA UNIVERSITY
301	B	ARMORED VEHICLE TECHNOLOGIES ASSOC	162	B	COMARCO INC
433	B	ARRAL INDUSTRIES INC	135	B	COMBUSTION ENGINEERING INC
154	B	ASSURANCE TECHNOLOGY CORP	462	B	COMMAND CONTROL COMMUNICATIONS
381	B	ATLANTIC AEROSPACE ELECTRONICS	287	B	COMPTON RESEARCH INC
99	B	ATLANTIC RESEARCH CORPORATION	404	B	COMPUTER RESOURCE ENGRG ASSOC

* B = Business Firm
F = Foreign Contractor
N = Nonprofit Institution

Table 1. Alphabetical Listing of the Top 500 DOD Prime Contractors for Research, Development, Test, and Evaluation Work: FY 1988

RANK	*	CONTRACTOR	RANK	*	CONTRACTOR
44	B	COMPUTER SCIENCES CORPORATION	395	B	EPOCH ENGINEERING INC
82	B	CONTEL PAGE SYSTEMS INC	156	B	ESL INCORPORATED
490	F	CONTRAVES ITALIANA SPA	481	B	ESSEX CORPORATION
113	B	CONTROL DATA CORPORATION	307	B	EVALUATION RESEARCH CORP
136	N	CORNELL UNIVERSITY	216	B	FAIRCHILD INDUSTRIES INC
445	B	CORTANA CORPORATION	253	B	FAIRCHILD WESTON SYSTEMS INC
448	B	CORVUS SYSTEMS INCORPORATED	420	B	FEMTECAMP INC
316	F	COSYDE GIE	402	B	FIBER MATERIALS INC
365	B	CTA INCORPORATED	376	B	FIBERTEK INC
438	B	CUBIC CORPORATION	40	B	FMC CORPORATION
183	B	CUMMINS ENGINE COMPANY INC	27	B	FORD AEROSPACE
436	N	DARTMOUTH COLLEGE	174	B	FOSTER MILLER INC
178	B	DBA SYSTEMS INC	91	B	FOUNDATION HEALTH CORPORATION
292	B	DCS CORPORATION	294	B	G & F CO
410	B	DECISION-SCIENCE APPLICATIONS	179	B	GA TECHNOLOGIES INC
157	B	DEERE JOHN TECHNOLOGIES INTL	413	B	GENERAL APPLIED SCIENCE
217	B	DEFENSE SYSTEMS INC	13	B	GENERAL DYNAMICS CORPORATION
336	B	DELTA RESEARCH INC	242	B	GENERAL DYNAMICS WESTINGHOUSE JV
329	B	DOSS AVIATION INC	7	B	GENERAL ELECTRIC COMPANY
412	B	DOW CHEMICAL COMPANY THE	453	N	GENERAL HOSPITAL CORPORATION
325	B	DOW CORNING CORPORATION	103	B	GENERAL MOTORS CORPORATION
28	N	DRAFER CHARLES STARK LAB INC	76	B	GENERAL RESEARCH CORPORATION
370	N	DUKE UNIVERSITY	486	B	GENTEX CORPORATION
469	B	DURODYNE INC	85	B	GEO-CENTERS INC
377	B	DYNAMAC INTERNATIONAL INC	133	N	GEORGE WASHINGTON UNIV THE
272	B	DYNAMICS RESEARCH CORPORATION	69	N	GEORGIA INSTITUTE TECHNOLOGY
151	B	DYNACORP	383	B	GIORDANO ASSOCIATES INC
236	B	DYNATECS INC	130	B	GLOBAL ASSOCIATES JV
166	B	E C CORPORATION	291	B	GOULD INC
302	B	E G & G INC	4	B	GRUMMAN AEROSPACE CORPORATION
128	B	E G & G WASH ANALYTICAL SVCS CTR	102	B	GTE GOVERNMENT SYSTEMS INC
400	B	E I C LABORATORY INC	59	B	GTE PRODUCTS CORP DEL CORP
73	B	E SYSTEMS INC	483	F	H R TEXTRON INC
194	B	EAGLE TECHNOLOGY INC	46	B	HARRIS CORPORATION
458	B	EAGLE-PICHER INDUSTRIES INC	160	B	HARRIS-MAGNAVOX SYSTEMS CO(JV)
33	B	EARTH TECHNOLOGY CORPORATION	74	B	HARSCO CORPORATION
341	F	EATMAN & LAK COMPANY	246	N	HARVARD UNIVERSITY
76	B	EATON CORPORATION	132	B	HAZELTINE CORPORATION
263	B	EBASCO SERVICES INC	397	F	HECKLER & KOCH INC
289	B	ECC INTERNATIONAL CORP	31	B	HERCULES INCORPORATED
456	B	ECC CORPORATION	376	B	HILTON SYSTEMS INC
419	B	ELECTRONIC ASSOCIATES INC	20	B	HONEYWELL INC
240	B	ELECTRONIC DECISIONS INC	101	N	HUDSON INSTITUTE INC
254	B	ELECTRONIC WARFARE ASSOCIATES	374	B	HUGHES ACFT & TEXAS INSTR JV
147	B	ELECTROSPACE SYSTEMS INC	11	B	HUGHES AIRCRAFT COMPANY
104	B	EMERSON ELECTRIC CO	405	B	HUGHES ASSOCIATES INC
171	B	ENTIRE CORPORATION	415	B	HYFRES INC
186	B	ENGINEERING & ECONOMICS RES	52	N	I I T RESEARCH INSTITUTE
379	B	ENGINEERING & PROF SVCS	259	B	I L C INDUSTRIES DELAWARE
200	N	ENVIRON RESH INST OF MICHIGAN	451	B	I NET INC

* B = Business Firm
F = Foreign Contractor
N = Nonprofit Institution

Table 1. Alphabetical Listing of the Top 500 DOD Prime Contractors for Research, Development, Test, and Evaluation Work: FY 1988

RANK	*	CONTRACTOR	RANK	*	CONTRACTOR
352	B	INDUSTRIAL DATA LINK CORP	118	B	MAGNAVOX GOVT & INDUST ELECTR
396	B	INFORMATION SYSTEMS NETWORKS CORP	243	B	MANTECH INTERNATIONAL CORP
110	N	INSTITUTE FOR DEF ANALYSES	208	B	MAR INCORPORATEE
215	B	INTEGRATED SYSTEMS ANALYSTS	248	B	MAREMONT CORPORATION
153	B	INTERMETRICS INC	210	B	MARQUARDT COMPANY THE
22	B	INTERNATIONAL BUS MCHS CORP	2	B	MARTIN MARIETTA CORPORATION
442	B	INTERNATIONAL COMPUTERS TELECOM	212	F	MARTIN-BAKER AIRCRAFT CO LTD
54	B	INTERSTATE ELECTRONICS CORP	15	N	MASSACHUSETTS INST OF TECHNOLOGY
306	F	ISRAEL AC INC	164	N	MASSACHUSETTS UNIVERSITY OF
126	F	ISRAEL AIRCRAFT INDS INTL	392	B	MATERIALS SCIENCE CORP
279	F	ISRAELI MINISTRY OF DEFENSE	78	B	MAXWELL LABORATORIES INC
384	F	ITE INC	494	B	MAYFLOWER COMMUNICATION CO
29	F	ITT CORPORATION	1	B	MC DONNELL DOUGLAS AIRCRAFT
197	N	ITT RESEARCH INSTITUTE	8	B	MC DONNELL DOUGLAS CORPORATION
280	B	ITT/MARTIN MARIETTA JV	112	B	MC DONNELL DOUGLAS HELICOPTER
351	B	J W F COMMUNICATIONS MFG CO	300	B	MC DONNELL DOUGLAS INCO INC
116	B	JAYCOR	137	B	MCDONNELL DGLS BELL HEL TEX JV
19	N	JOHNS HOPKINS UNIVERSITY	80	B	MCDONNELL DOUGLAS ASTRONAUTICS
411	F	KAMAN AEROSPACE CORPORATION	303	N	MERCER UNIVERSITY
114	B	KAMAN CORPORATION	89	F	MESSERSCHMITT-BOELKOW BLOHM
69	B	KAMAN SCIENCES CORPORATION	441	N	MICHIGAN DEPT OF PUBLIC HEALTH
378	B	KETRON INC	472	B	MICROELECTRONICS
335	B	KEYSTONE COMPUTER ASSOCIATES	159	F	MINISTRY OF DEFENSE UK
446	B	KNOWLEDGE SYSTEMS CONCEPTS	96	B	MISSION RESEARCH CORPORATION
491	B	KULLMORGEN CORPORATION	19	N	MITRE CORPORATION
386	B	L GARDE INC	57	B	MORTON THIOKOL INC
496	B	LASER SCIENCE, INC	41	B	MOTOROLA INC
388	F	LEADING SYSTEMS, INC	460	B	N E F ENGINEERING INC
90	B	LEAR SIEGLER INC	269	B	NATION INC
60	B	LIGHT HELICOPTER TURBIN ENG	274	N	NATIONAL ACADEMY SCIENCES USA
195	B	LITTLE ARTHUR D INC	500	B	NATIONAL FORGE COMPANY
213	B	LITTON INDUSTRIES INC	457	N	NATIONAL SCIENCE FOUNDATION
21	B	LITTON SYSTEMS INC	439	N	NATIVE AMERICAN SERVICE ASSN
34	B	LOCKHEED CORPORATION	477	B	NETWORK EQUIPMENT TECHNOLOGIES
125	B	LOCKHEED ELECTRONICS CO	349	B	NETWORK SOLUTIONS INC
333	B	LOCKHEED ENGRG & SCIENCES CO	204	N	NEW MEXICO STATE UNIVERSITY
10	F	LOCKHEED MISSILES & SPACE CO	334	N	NEW YORK UNIVERSITY
211	B	LOGUS INC	205	B	NEWPORT NEWS SHPBUILDING DRYDOCK
30	B	LOGICON INC	83	B	NICHOLS RESEARCH CORPORATION
454	B	LOGISTICS MANAGEMENT ENTER	407	B	NORDEN SYSTEMS INC
145	N	LOGISTICS MANAGEMENT INST	251	N	NORTH CAROLINA STATE UNIV
56	B	LORAL CORPORATION	452	N	NORTHEASTERN UNIVERSITY CORP
387	B	LORAL SYS CO	32	B	NORTHROP CORPORATION
278	B	LOS ALAMOS TECHNICAL ASSOC INC	368	N	NORTHWESTERN UNIVERSITY
442	N	LOUISIANA STATE UNIVERSITY	493	B	NTS ENGINEERING
459	B	LSI INC	342	B	NUCLEAR METALS INC
24	B	LTV AEROSPACE & DEFENSE CO	449	B	O A O CORPORATION
67	B	M D T I INC	417	B	OCEAN DATA SYSTEMS INC
115	B	M/A COM LINKABIT INC	361	B	ODYSSEY RESEARCH ASSOCIATES
313	B	MAC AULAY-BROWN INC	328	N	OHIO STATE UNIVERSITY

* B = Business Firm
F = Foreign Contractor
N = Nonprofit Institution

Table 1. Alphabetical Listing of the Top 500 DOD Prime Contractors for Research, Development, Test, and Evaluation Work: FY 1988

RANK	*	CONTRACTOR	RANK	*	CONTRACTOR
192	B	OLIN CORPORATION	458	B	ROHM AND HAAS COMPANY
283	B	OPTIC-ELECTRONIC CORP	132	F	ROYAL NORWEGIAN NAVAL MATERIAL
247	B	OPTIMETRICS INC	430	N	RUTGERS THE STATE UNIVERSITY
239	B	ORBITAL SCIENCES CORPORATION	252	B	S SYSTEMS CORPORATION
206	N	OREGON STATE UNIVERSITY	124	B	SACHS-FREEMAN ASSOCIATES INC
304	B	ORINCON CORPORATION	237	N	SALK INST FOR BLGICAL STUDIES
417	B	ORION INTL TECHNOLOGIES	66	B	SANDERS ASSOCIATES INC
275	B	ORLANDO HELICOPTER AIRWAYS	138	B	SCHAFER W J ASSOCIATES INC
346	B	P D A ENGINEERING	466	B	SCI TEC INC
186	B	PACER SYSTEMS INC	498	B	SCIENCE & ENGINEERING ASSOC
181	B	PACIFIC SIERRA RESEARCH CORP	406	B	SCIENCE & TECHNOLOGY ASSOC
482	B	PACIFICA TECHNOLOGY	399	B	SCIENCE & TECHNOLOGY CORP
119	B	PAN AM WORLD SERVICES INC	35	B	SCIENCE APPLICATIONS INTL CORP
163	B	PAR TECHNOLOGY CORPORATION	354	B	SCIENCE RESEARCH LABORATORY
476	B	PARSONS RALPH M COMPANY THE	447	B	SCIENTIFIC RESEARCH ASSOC
409	B	PATEL ENTERPRISES INCORPORATED	470	B	SCIENTIFIC SYSTEMS INC
63	N	PENNSYLVANIA STATE UNIV THE	359	B	SCOPE INCORPORATED
107	B	PERCEPTRONICS INC	357	B	SEACO INC
134	B	PERKIN ELMER CORPORATION	268	B	SEMCOR INC
353	B	PHOTON RESEARCH ASSOCIATES	23	B	SINGER COMPANY THE
318	B	PHYSICAL RESEARCH INC	324	B	SIPPICAN INC
373	B	PHYSICAL SCIENCES INC	319	F	SNIA BPD
129	B	PHYSICS INTERNATIONAL COMPANY	200	B	SOFTTECH INC
161	B	PICKER INTERNATIONAL INC	348	B	SONALYSTS INC
222	B	PLANNING RESEARCH CORPORATION	141	B	SONICRAFT INC
152	B	PLANNING SYSTEMS INCORPORATED	127	N	SOUTH CAROLINA RES AUTHORITY
416	B	POLARIS INC	331	N	SOUTHEASTN CTR ELECTR ENG ED
356	N	POLYTECHNIC UNIV OF NEW YORK	487	N	SOUTHERN METHODIST UNIVERSITY
475	B	POTOMAC SYSTEMS ENGINEERING	219	N	SOUTHERN RESEARCH INSTITUTE
244	N	PRINCETON UNIVERSITY	172	N	SOUTHWEST RESEARCH INSTITUTE
182	N	PURDUE UNIVERSITY	195	B	SPACE APPLICATIONS CORPORATION
187	B	QUEST RESEARCH CORPORATION	75	B	SPACE COMMUNICATION COMPANY
260	B	QUESTTECH INC	143	B	SPACE DATA CORPORATION
84	R	R & D ASSOCIATES	81	B	SPARTA INC
235	B	R J O ENTERPRISES INC	271	B	SPARTON CORPORATION
398	B	RAIL COMPANY	29	B	SPERRY CORPORATION
65	N	RAND CORPORATION	282	B	SPIRE CORPORATION
480	B	RAVEN INC	49	N	SRI INTERNATIONAL
255	B	RAYMOND ENGINEERING INC	131	B	SRS TECHNOLOGIES
5	B	RAYTHEON COMPANY	158	B	STANFORD TELECOMMUNICATIONS
220	B	RAYTHEON SERVICE COMPANY	79	N	STANFORD UNIVERSITY
26	B	RCA CORPORATION	389	N	STATE OF OKLAHOMA
467	B	REMINGTON ARMS COMPANY INC	266	N	STATE UNIVERSITY OF NEW YORK
226	N	RENSSELAER POLYTECHNIC INST	227	B	STERIMATICS CORPORATION
478	B	RESEARCH & DEV LABORATORIES	330	B	SUMMIT AVIATION INC
198	N	RESEARCH TRIANGLE INSTITUTE	403	B	SUMMIT TECHNOLOGIES INC
495	N	RICE WILLIAM MARSH UNIVERSITY	311	B	SUNDSTRAND CORPORATION
98	N	RIVERSIDE RESEARCH INSTITUTE	53	B	SVERDRUP TECHNOLOGY INC
322	B	RMS TECHNOLOGIES INCORPORATED	432	B	SYGNETRON PROTECTION SYSTEMS
6	B	ROCKWELL INTERNATIONAL CORP	295	B	SYNETICS CORPORATION

* B = Business Firm
F = Foreign Contractor
N = Nonprofit Institution

Table 1. Alphabetical Listing of the Top 500 DOD Prime Contractors for Research, Development, Test, and Evaluation Work: FY 1988

RANK	*	CONTRACTOR	RANK	*	CONTRACTOR
422	N	SYRACUSE RESEARCH CORP	47	N	UNIVERSITY OF CALIFORNIA
207	N	SYRACUSE UNIVERSITY	281	N	UNIVERSITY OF CENTRAL FLORIDA
106	B	SYSCON CORPORATION	434	N	UNIVERSITY OF CHICAGO THE
168	B	SYSTEM DEVELOPMENT CORPORATION	338	N	UNIVERSITY OF COLORADO
375	B	SYSTEM DYNAMICS INC	401	N	UNIVERSITY OF CONNECTICUT
173	B	SYSTEM PLANNING CORPORATION	117	N	UNIVERSITY OF DAYTON INC
473	B	SYSTEM RESOURCES CORPORATION	450	N	UNIVERSITY OF DELAWARE
189	B	SYSTEMS & ELECTRONICS INC	321	N	UNIVERSITY OF FLORIDA
427	B	SYSTEMS & LOGISTICS CORP	464	N	UNIVERSITY OF HAWAII
461	B	SYSTEMS APPLICATIONS, INC	109	N	UNIVERSITY OF ILLINOIS
265	B	SYSTEMS EXPLORATION INC	391	N	UNIVERSITY OF IOWA THE
238	B	SYSTEMS PLANNING & ANALYSIS	142	N	UNIVERSITY OF MARYLAND
418	B	SYSTEMS RES APPLICATIONS CORP	176	N	UNIVERSITY OF MICHIGAN
95	B	SYSTEMS RESEARCH LABORATORIES	309	N	UNIVERSITY OF MINNESOTA
350	B	SYSTRAN CORP	245	N	UNIVERSITY OF NEW MEXICO
488	B	T S C INC	344	N	UNIVERSITY OF NORTH CAROLINA
463	B	TALLEY DEFENSE SYSTEMS INC	233	N	UNIVERSITY OF PENNSYLVANIA
241	B	TECHNOYN SYSTEMS CORPORATION	424	N	UNIVERSITY OF PITTSBURGH
299	B	TECHNICAL & MGT SVCS CORP	360	N	UNIVERSITY OF RHODE ISLAND
465	B	TECHNOLOGY DEVELOPMENT CORP	232	N	UNIVERSITY OF ROCHESTER
372	B	TEKNOLEDGE INC	87	N	UNIVERSITY OF SOUTHERN CALIF
485	B	TELECOMMUNICATION SCIENCE ASSOC	382	N	UNIVERSITY OF TENNESSEE
39	B	TELEDYNE INC	64	N	UNIVERSITY OF TEXAS SYSTEM
184	B	TELEDYNE INDUSTRIES INC	250	N	UNIVERSITY OF UTAH
169	B	TETRA TECH INC	362	N	UNIVERSITY OF VIRGINIA
240	N	TEXAS A & M UNIVERSITY	108	N	UNIVERSITY OF WASHINGTON
37	B	TEXAS INSTRUMENTS INCORPORATED	209	N	UNIVERSITY OF WISCONSIN SYSTEM
443	B	TEXAS RESEARCH INSTITUTE INC	122	N	UTAH STATE UNIVERSITY
221	B	TEXTRON INC	390	B	UTD INC
440	B	THINKING MACHINES CORPORATION	312	N	VANDERBILT UNIVERSITY THE
380	B	TITAN CORPORATION	218	B	VECTOR RESEARCH COMPANY INC
435	B	TOYON RESEARCH CORP	144	B	VEDA INCORPORATED
367	B	TRACOR APPLIED SCIENCES INC	196	B	VERAC INCORPORATED
308	B	TRACOR INC	286	N	VIRGINIA POLYTECHNICAL INST
285	B	TRACOR INSTRUMENTS AUSTIN INC	474	B	VISIDYNE INC
9	B	TRJ INC	70	B	VITRO CORPORATION
332	B	U S B I CO	180	B	VITRONICS INC
224	N	U S DEPARTMENT OF COMMERCE	155	B	VSE CORPORATION
201	B	U T L CORPORATION	277	B	WALLACE T H INC
61	B	UNISYS CORPORATION	120	B	WATKINS-JOHNSON COMPANY
431	B	UNITED AIRLINES SERVICES CORP	421	B	WEIDLINGER ASSOCIATES INC
326	B	UNITED INTERNATIONAL ENGRG	225	B	WESTERN INSTRUMENT CORPORATION
385	F	UNITED KINGDOM AUTOMIC	149	B	WESTERN RESEARCH CORPORATION
345	F	UNITED KINGDOM MINISTRY OF DEF	17	B	WESTINGHOUSE ELECTRIC CORP
355	N	UNITED STATES DEPT ENERGY	191	B	WILLIAMS INTERNATIONAL CORP
14	B	UNITED TECHNOLOGIES CORP	139	N	WOODS HOLE OCEANOGRAPHIC INSTN
327	N	UNIV CORP FOR ATMOSPHERIC RSC	288	B	XEROX CORPORATION
148	B	UNIVERSAL ENERGY SYSTEMS INC	258	B	XONTECH INC
249	N	UNIVERSITY OF ALABAMA	223	N	YALE UNIVERSITY
256	N	UNIVERSITY OF ARIZONA	340	B	ZEROONE SYSTEMS INC

* B = Business Firm
F = Foreign Contractor
N = Nonprofit Institution

**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Business Firms: FY 1988**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
1	MC DONNELL DOUGLAS AIRCRAFT Huntington Bea California Long Beach California Seattle Washington	2,156,223 * 1,930 2,154,149 144		ROCKWELL INTERNATIONAL CORP El Segundo California Los Angeles California Newport Beach California Rockville California Santa Barbara California Seal Beach California Thousand Oaks California Colorado Sprin Colorado Duluth Georgia Norcross Georgia Cedar Rapids Iowa Albuquerque New Mexico Kirtland AFB New Mexico Columbus Ohio Tulsa Oklahoma Richardson Texas	406 307,918 257 228 685 16,814 14,533 1,292 19,100 452 11,003 2,462 15,734 394 366 31,948
2	MARTIN MARIETTA CORPORATION Mountain View California Sunnyvale California Vandenberg AFB California Denver Colorado Littleton Colorado Waterton Colorado Washington D.C. Orlando Florida Baltimore Maryland Bethesda Maryland Germantown Maryland Glen Burnie Maryland Halethorpe Maryland Middle River Maryland Bellevue Nebraska Albuquerque New Mexico Kirtland AFB New Mexico Rome New York Wright Patters Ohio Vienna Virginia	2,025,741 * 450 125 2,655 1,721,306 14,438 430 108 246,107 17,535 11,731 30 2,396 602 2,200 889 2,643 493 239 1,164 200	7	GENERAL ELECTRIC COMPANY Huntsville Alabama Williams AFB Arizona San Jose California Daytona Beach Florida Greenbelt Maryland Burlington Mass Lexington Mass Lynn Mass Pittsfield Mass Wilmington Mass Syracuse Nebraska Moorestown-Len New Jersey Princeton New Jersey Schenectady New York Syracuse New York Utica New York Cincinnati Ohio King of Prussia Penn Philadelphia Penn Valley Forge Penn Burlington Vermont	710,174 * 52,794 2,819 60 533- 211 39 292 35,533 34,858 311 233 125 5,000 133,739 43,034 23,284 271,138 464 90,677 177 15,919
3	BOEING COMPANY THE Huntsville Alabama Benedict Kansas Wichita Kansas L. G. Hanscom Mass Philadelphia Penn Ridley Penn Ridley Park Penn Houston Texas Kent Washington Seattle Washington	878,735 * 20,283 778- 74,395 657- 20,956 339 50 54 47,717 716,376	8	MC DONNELL DOUGLAS CORPORATION Huntsville Alabama Anaheim California Huntington Bea California Long Beach California Denver Colorado Cape Canaveral Florida Eglin Air Forc Florida Annapolis Maryland Patuxent River Maryland Berkeley Missouri St. Louis Missouri Wright Patters Ohio Bergstrom AFB Texas	663,984 * 807 32,000 353,746 103,251 95 857 798 300 255 2,160 167,463 364 1,888
4	GRUMMAN AEROSPACE CORPORATION Edwards AFB California Bethpage New York Beukendaal New York Huntington New York Melville New York	843,384 * 6,158 834,089 235 265 2,637	9	TRW INC Huntsville Alabama Los Angeles California Redondo Beach California San Bernardino California San Diego California Sunnyvale California Warner Robins Georgia Bedford Mass Boston Mass Albuquerque New Mexico Beavercreek Ohio Cleveland Ohio Dayton Ohio Wright Patters Ohio Alexandria Virginia Fairfax Virginia Falls Church Virginia	658,703 * 21,945 3,892 346,857 205,389 38,723 3,627 737 312- 16,617 45- 500 32 4,292 6,522 1,254 8,428 245
5	RAYTHEON COMPANY Goleta California Oxnard California San Diego California Andover Mass Bedford Mass Lexington Mass Lowell Mass Marlboro Mass Marlborough Mass Northborough Mass Norwood Mass Sudbury Mass Tewksbury Mass Waltham Mass Wayland Mass West Andover Mass Wayne New Jersey East Providenc Rhode Isl Portsmouth Rhode Isl Keyport Naval Washington SPAIN	840,902 * 12,859 35- 836 16,066 113,801 1,657 11,102 43 92,010 121 130 288,661 30 1,974 270,643 7,473 48 300 22,685 80 418	6	ROCKWELL INTERNATIONAL CORP Huntsville Alabama Brashears Arkansas Anaheim California Downey California Edwards AFB California	737,671 * 150 198 203,325 106,525 3,881

- = Minus Amount (Cancellations Exceed New Awards)
S = Small Business

**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Business Firms: FY 1988**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
10	LOCKHEED MISSILES & SPACE CO Huntsville Alabama 2,298 Palo Alto California 16,216 Santa Clara California 1,502 Sunnyvale California 567,003 Mercury Nevada 767- Sunspot New Mexico 32 White Sands Ms New Mexico 5,000 Austin Texas 19,769 Salt Lake City Utah 100	611,153 *	20	WESTINGHOUSE ELECTRIC CORP West Mifflin Penn 35,121 HONEYWELL INC Glendale Arizona 190 Phoenix Arizona 1,028 West Covina California 4,319 Colorado Sprin Colorado 240 Denver Colorado 139 Littleton Colorado 79 Clearwater Florida 14,299 Tampa Florida 225 Annapolis Maryland 220 Lexington Mass 17,664 Wilmington Mass 460 Bloomington Minnesota 5,563 Brooklyn Park Minnesota 37,870 Edina Minnesota 1,047 Golden Valley Minnesota 426 Hopkins Minnesota 102,945 Minneapolis Minnesota 12,845 Minnetonka Minnesota 50,462 Plymouth Minnesota 22,741 St. Louis Park Minnesota 163 Eatontown New Jersey 993 Albuquerque New Mexico 10,035 Horsham Penn 1,345 Richardson Texas 82 McLean Virginia 550	285,930 *
11	HUGHES AIRCRAFT COMPANY Tucson Arizona 187,346 Buena Park California 1,125 Carlsbad California 10,013 Culver City California 1,978 El Segundo California 232,414 Fullerton California 68,233 Goleta California 8,369 Irvine California 756 Long Beach California 227- Los Angeles California 49,744 Malibu California 12,984 Newport Beach California 167 San Diego California 616 Sunnyvale California 236 Torrance California 6,337 Des Plaines Illinois 204 Baltimore Maryland 657 Albuquerque New Mexico 200 Dahlgren Virginia 300	581,452 *	21	LITTON SYSTEMS INC Tempe Arizona 75 Los Angeles California 42,774 Moorpark California 80 Sunnyvale California 1,723 Colorado Sprin Colorado 173,205 South Windsor Conn 200 Windsor Conn 476 Orlando Florida 1,132 Fort Benning Georgia 667 Davenport Iowa 73 College Park Maryland 45- Morris Plains New Jersey 157 Williamsport Penn 763 Salt Lake City Utah 16,378 Blacksburg Virginia 51	237,709 *
12	BELL BOEING JV Fort Worth Texas 426,674 *	426,674	22	INTERNATIONAL BUS MCHS CORP San Jose California 514 Thousand Oaks California 940 Boulder Colorado 28,761 Bethesda Maryland 242 Gaithersburg Maryland 14,902 Oswego Center New York 56 Owego New York 23,736 Yorktown New York 1,900 Yorktown Heigh New York 1,743 Oklahoma City Oklahoma 63 Houston Texas 989- Manassas Virginia 132,376	204,244 *
13	GENERAL DYNAMICS CORPORATION Ontario California 14,812 Pomona California 97,049 Rancho Cucamon California 10,372 San Diego California 108,841 Clinton Conn 38- Groton Conn 60,675 Center Line Michigan 15,519 Sterling Heigh Michigan 18,364 Warren Michigan 1,151 St. Louis Missouri 1,007 Middletown Rhode Isl 69 Fort Worth Texas 87,899 Harlingen Texas 1,825	417,545 *	23	SINGER COMPANY THE Luke Air Force Arizona 1,634 Williams AFB Arizona 3,688 Jacksonville Arkansas 150 Belmont California 286 Glendale California 595 Stanford Conn 1,000 Fort Wayne Indiana 125 Silver Spring Maryland 228 Little Falls New Jersey 115,398 Wayne New Jersey 12,220 Binghamton New York 5,951 Dallas-Fort Wo Texas 21,629 Houston Texas 5,827	168,741 *
14	UNITED TECHNOLOGIES CORP San Jose California 3,109 East Hartford Conn 25,344 East Hartland Conn 75 Hartford Conn 175 South Windsor Conn 4,751 Stratford Conn 65,444 Windsor Locks Conn 2,358 Flora Florida 160 Kite Florida 92 West Palm Beac Florida 303,613 Albuquerque New Mexico 108 Dayton Ohio 465	405,694 *			
17	WESTINGHOUSE ELECTRIC CORP Sunnyvale California 89,056 Annapolis Maryland 617 Baltimore Maryland 83,390 Baltimore-Wash Maryland 5,167 Cockeysville Maryland 650 Cleveland Ohio 1,837 Lima Ohio 44 Wright Patters Ohio 550 Borough Penn 134,985 Pittsburgh Penn 12,119	363,536 *			

- = Minus Amount (Cancellations Exceed New Awards)
S = Small Business

**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Business Firms: FY 1988**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
24	LTV AEROSPACE & DEFENSE CO College Park Maryland 210 Buffalo New York 350 Dallas Texas 125,236 Grand Prairie Texas 27,852 Dayton Wisconsin 39	153,687 *	33	AEROJET SOLID PROPULSION CO Sacramento California 117,951 * Sacramento Arm California 115,721 2,230	
25	A T & T TECHNOLOGIES INC Eatontown New Jersey 270 New Providence New Jersey 770 Whippany New Jersey 5,838 Schenectady New York 500 Greensboro N Carolina 136,733 Reading Penn 5,024	149,135 *	34	LOCKHEED CORPORATION Burbank California 113,903 * Ontario California 72,425 Palo Alto California 17,151 Saugus-Bouquet California 60 Marietta Georgia 775 23,492	
26	RCA CORPORATION Panama City Florida 58 Burlington Mass 747 Camden New Jersey 19,101 Cherry Hill New Jersey 384 Moorestown New Jersey 4,331 Moorestown-Len New Jersey 88,235 Morristown New Jersey 1,334 Princeton New Jersey 28,758 Somerville New Jersey 2,480 Warminster Penn 768 Fort Worth Texas 2,075	148,271 *	35	SCIENCE APPLICATIONS INTL CORP Huntsville Alabama 113,763 * Tucson Arizona 6,250 Hermosa Beach California 4,014 Irvine California 8,366 Los Altos California 365 Los Angeles California 490 Monterey California 137 Placentia California 1,731 San Diego California 6,518 Santa Barbara California 49,496 Sunnyvale California 95 Torrance California 144 Englewood Colorado 447 Washington D.C. 299 Fort Walton Be Florida 60 Orlando Florida 503 Marietta Georgia 2,728 Kailua Hawaii 280 Albuquerque New Mexico 2,601 Rome New York 918 Dayton Ohio 200 Wright Patters Ohio 4,930 Wayne Penn 633 Arlington Virginia 30 Dahlgren Virginia 338 McLean Virginia 667 21,523	
27	FORD AEROSPACE El Monte California 141,968 * Newport Beach California 216 Palo Alto California 22,498 San Jose California 34,294 Sunnyvale California 35,137 Colorado Sprin California 17,221 Fort Leavenwor Colorado 23,430 Leavenworth Kansas 970 8,202		36	COLLINS INTERNATIONAL SV CO Cedar Idaho 108,857 * Cedar Rapids Iowa 334 Richardson Texas 108,285 238	
29	SPERRY CORPORATION Huntsville Alabama 101 Phoenix Arizona 272 Clearwater Florida 700 St. Paul Minnesota 20,004 Great Neck New York 104,813 Salt Lake City Utah 2,071 McLean Virginia 3,053 Reston Virginia 4,920	135,934 *	37	TEXAS INSTRUMENTS INCORPORATED Ridgecrest California 107,596 * Colorado Sprin Colorado 147 Allenfarm Texas 16,555 Dallas Texas 360 Dallas-Fort Wo Texas 76,631 Lewisville Texas 665 McKinney Texas 9,060 Plano Texas 200 Sherman Texas 2,778 1,200	
30	AEROJET ELECTROSYSTEMS CO Azusa California 131,764 * 131,764		38	ITT CORPORATION Los Angeles California 99,954 * San Diego California 2,463 Fort Wayne Indiana 127 Nutley New Jersey 14,611 Wright Patters Ohio 80,706 Easton Penn 741 Roanoke Virginia 150 1,156	
31	HERCULES INCORPORATED Wilmington Delaware 236 Clearwater Florida 6,653 Cumberland Maryland 688 Magna Utah 90,571 Rocket Center W Virginia 33,517	131,665 *	39	TELEDYNE INC Huntsville Alabama 96,492 * Los Angeles California 92,023 Sunnyvale California 1,600 Muskegon Michigan 79 Toledo Ohio 500 2,290	
32	NORTHROP CORPORATION Anaheim California 123,939 * El Segundo California 15,087 Hawley California 250 Hawthorne California 180 Palmdale California 25,042 Palos Verdes P California 70,450 Pico Rivera California 70 Rolling Hills California 1,365 Thousand Oaks California 1,095 Palos Verdes California 3,489 Rolling Meadow Illinois 1,478 Norwood Mass 2,615 2,818				

- = Minus Amount (Cancellations Exceed New Awards)
S = Small Business

**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Business Firms: FY 1988**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
40	FMC CORPORATION Anniston Alabama San Jose California Santa Clara California Minneapolis Minnesota	93,584 * 138 54,537 35,833 3,076	50	BDM CORPORATION Huntsville Alabama Hawthorne California Monterey California Tyndall AFB Florida Columbia Maryland Albuquerque New Mexico Kettering Ohio McLean Virginia Springfield Virginia Seattle Washington	58,351 * 2,955 99 285 4,015 250 17,618 46 32,548 175 360
41	MOTOROLA INC Phoenix Arizona Scottsdale Arizona Tempe Arizona	88,500 * 500 60,888 27,112	51	AVCO RESEARCH LABORATORY INC Puunene Hawaii Everett Mass	55,609 * 10,958 44,651
42	AEROJET GENERAL CORPORATION Azusa California Downey California Nimbus California Sacramento California Sacramento Arm California	82,929 * 52,084 13,384 152 17,024 285	53	SVERDRUP TECHNOLOGY INC Arnold AFS Tennessee Tullahoma Tennessee	54,712 * 51,769 2,943
43	AVCO CORPORATION Stratford Conn Stratford AEP Conn Lowell Mass Wilmington Mass	81,337 * 324 38,936 2,897 39,180	54	INTERSTATE ELECTRONICS CORP Anaheim California	52,389 * 52,389
44	COMPUTER SCIENCES CORPORATION Huntsville Alabama Camarillo California San Diego California Fort Walton Be Florida Bedford Mass Lakewood New Jersey Moorestown-Len New Jersey Oceanport New Jersey Shrewsbury New Jersey Albuquerque New Mexico Huntingdon Val Penn Dahlgren Virginia Falls Church Virginia	79,573 * 8,218 7,915 20,233 4,105 26- 222 7,013 257 2,413 10,845 4,532 7,880 5,966	55	BOLT BERANEK & NEUMAN INC Los Angeles California San Diego California New London Conn Cambridge Mass Buell Virginia	51,578 * 1,087 718 58 49,155 560
45	ALLIED SIGNAL AEROSPACE CO Phoenix Arizona Los Angeles California Torrance California Washington D.C. Baltimore Maryland Churchill Maryland Columbia Maryland Oxon Hill Maryland St. Inigoes Maryland Towson Maryland Mercury Nevada Teterboro New Jersey	73,802 * 7,099 808 7,037 7,930 12,548 125 29,844 350 4,119 1,033 1,949 960	56	LORAL CORPORATION Litchfield Par Arizona New York New York Yonkers New York Akron Ohio	51,144 * 2,439 5,022 161 43,522
46	HARRIS CORPORATION Boca Raton Florida Melbourne Florida Palm Bay Florida Winter Park Florida Chicago O'Hare Illinois Omaha Nebraska Syosset New York	69,441 * 324- 59,387 4,080 1,611 47 97 4,543	57	MORTON THIOKOL INC Huntsville Alabama Elkton Maryland Brigham City Utah	50,884 * 2,651 3,190 45,043
48	CALSPAN CORPORATION Albany New York Buffalo New York Dayton Ohio Norristown Penn Philadelphia Penn Greenville S Carolina Arnold AFS Tennessee	65,310 * 173 15,732 308 128 100 190 48,679	59	GTE PRODUCTS CORP DEL CORP Mountain View California Colorado Sprin Colorado Billerica Mass Danvers Mass Needham Mass Westboro Mass Westborough Mass Towanda Penn	49,793 * 1,067 752 27,903 35 13,633 129 5,425 849
			60	LIGHT HELICOPTER TURBIN ENG St. Louis Missouri	49,540 * 49,540
			61	UNISYS CORPORATION Huntsville Alabama Glendale Arizona Camarillo California San Diego California Panama City Be Florida Eagan Minnesota St. Paul Minnesota Great Neck New York Dayton Ohio Paoli Penn Trevose Penn Warminster Penn Dahlgren Virginia Herndon Virginia Reston Virginia	48,319 * 403 300 2,612 2,266 330 6,062 2,454 24,500 445 210 1,266 433 2,340 74 4,624

- = Minus Amount (Cancellations Exceed New Awards)
S = Small Business

**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Business Firms: FY 1988**

Rank	Name of Contractor	Location of Work	Thousands of Dollars	Rank	Name of Contractor	Location of Work	Thousands of Dollars
62	BALL CORPORATION		46,922 *	78	MAXUELL LABORATORIES INC		35,081 *
	San Diego	California	2,170		Placentia	California	162
	Boulder	Colorado	43,833		San Diego	California	31,937
	Broomfield	Colorado	366		Albuquerque	New Mexico	1,837
	Kirtland AFB	New Mexico	553		Alexandria	Virginia	154
66	SANDERS ASSOCIATES INC		43,498 *		Reston	Virginia	127
	Hudson	N.H.	80-		Richmond	Virginia	864
	Merrimack	N.H.	501	80	MCDONNELL DOUGLAS ASTRONAUTICS		32,423 *
	Nashua	N.H.	40,552		Titusville	Florida	32,423
	North Bergen	New Jersey	2,525	81	SPARTA INC		S 31,654 *
67	M D T T INC		42,516 *		Huntsville	Alabama	5,403
	Orlando	Florida	42,516		Del Mar	California	653
68	KAMAN SCIENCES CORPORATION		41,766 *		Edwards AFB	California	5,397
	Huntsville	Alabama	505		Laguna Beach	California	286
	Santa Barbara	California	4,827		Laguna Hills	California	8,740
	Santa Monica	California	1,223		Placentia	California	500
	Colorado Sprin	Colorado	19,042		San Diego	California	646
	Burlington	Mass	863		Lexington	Mass	506
	Albuquerque	New Mexico	12,412		McLean	Virginia	9,523
	Alexandria	Virginia	2,894	82	CONTEL PAGE SYSTEMS INC		30,887 *
70	VITRO CORPORATION		41,016 *		Fairfax	Virginia	30,887
	New London	Conn	496	83	NICHOLS RESEARCH CORPORATION		S 30,269 *
	New London Nav	Conn	343		Huntsville	Alabama	26,420
	Bethesda	Maryland	291		Boston	Mass	49
	Silver Spring	Maryland	37,424		Wakefield	Mass	1,500
	Warminster	Penn	102		Ann Arbor	Michigan	50
	Dahlgren	Virginia	2,360		Albuquerque	New Mexico	1,779
71	ANALYTIC SCIENCES CORP		40,441 *		White Sands Ms	New Mexico	471
	Fort Walton Be	Florida	1,805	84	R & D ASSOCIATES		30,217 *
	Reading	Mass	33,407		Marina del Ray	California	19,291
	Fairborn	Ohio	5,137		Washington	D.C.	150
	Arlington	Virginia	92		Albuquerque	New Mexico	1,115
72	EATON CORPORATION		39,160 *		Kirtland AFB	New Mexico	6,318
	Westlake Villa	California	134		Alexandria	Virginia	270
	Beverly	Mass	150		Fort Lewis	Washington	729
	Deer Park	New York	34,121		GERMANY, F		2,344
	Deer River	New York	4,114	85	GEO-CENTERS INC		S 29,184 *
	Melville	New York	641		Washington	D.C.	20,110
73	E-SYSTEMS INC		38,522 *		Edgewood Arsen	Maryland	449
	Saint Petersbu	Florida	22,980		Natick	Mass	329
	Dallas	Texas	13,188		Natick Researc	Mass	196
	Greenville	Texas	1,942		Newton	Mass	5,863
	Fairfax	Virginia	330		Watertown	Mass	200
	Falls Church	Virginia	82		Wilmington	Mass	63
74	HARSCO CORPORATION		38,434 *		Dover	New Jersey	1,974
	East Stroudsbu	Penn	64	86	BOOZ ALLEN & HAMILTON INC		28,114 *
	York	Penn	38,370		Huntsville	Alabama	1,100
75	SPACE COMMUNICATION COMPANY		38,426 *		Bethesda	Maryland	15,499
	Gaithersburg	Maryland	38,426		Silver Spring	Maryland	3,980
76	GENERAL RESEARCH CORPORATION		37,656 *		Tinton Falls	New Jersey	50
	Huntsville	Alabama	10,574		Albuquerque	New Mexico	975
	Hollister	California	76		Wright Fatters	Ohio	5,241
	Los Angeles	California	280		Arlington	Virginia	1,269
	Santa Barbara	California	24,225	90	LOGICON INC		26,889 *
	Chelmsford	Mass	100		Los Angeles	California	20,858
	McLean	Virginia	2,401		San Diego	California	1,732
77	BELL HELICOPTER TEXTRON INC		35,752 *		San Pedro Hill	California	245
	Fort Worth	Texas	35,752		Bellevue	Nebraska	3,136
					Dayton	Ohio	30
					Fairfax	Virginia	888
				91	FOUNDATION HEALTH CORPORATION		26,888 *
					Sacramento	California	26,888

- = Minus Amount (Cancellations Exceed New Awards)
S = Small Business

**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Business Firms: FY 1988**

Rank	Name of Contractor	Location of Work	Thousands of Dollars	Rank	Name of Contractor	Location of Work	Thousands of Dollars
92	LEAR SIEGLER INC		26,572 *	107	PERCEPTIONICS INC	S	21,224 *
	Santa Monica	California	109		Los Angeles	California	20,494
	Grand Rapids	Michigan	26,463		Ann Arbor	Michigan	730
93	EARTH TECHNOLOGY CORPORATION	S	26,374 *	111	A A I CORPORATION		20,166 *
	Long Beach	California	26,374		Panama City Be	Florida	37
94	COLSA INC	S	26,025 *		Baltimore	Maryland	5,122
	Huntsville	Alabama	26,025		Cockeysville	Maryland	15,007
95	SYSTEMS RESEARCH LABORATORIES		25,160 *	112	MC DONNELL DOUGLAS HELICOPTER		20,060 *
	Dayton	Ohio	12,998		Mesa	Arizona	19,460
	Wright Patters	Ohio	11,149		Culver City	California	449
	San Antonio	Texas	1,013		Rock Island	Illinois	108
					Holloman AFB	New Mexico	43
96	MISSION RESEARCH CORPORATION	S	25,126 *	113	CONTROL DATA CORPORATION		19,955 *
	Santa Barbara	California	20,344		San Diego	California	178
	Colorado Sprin	Colorado	200		Rockville	Maryland	57
	Nashua	N.H.	1,096		Bloomington	Minnesota	124
	Albuquerque	New Mexico	3,233		Minneapolis	Minnesota	19,596
	Los Alamos	New Mexico	50	114	KAMAN CORPORATION		19,931 *
	Dayton	Ohio	63		Bloomfield	Conn	19,931
	Alexandria	Virginia	37	115	M/A COM LINKABIT INC		19,888 *
	Newington	Virginia	103		San Diego	California	16,677
					Vienna	Virginia	3,211
99	ATLANTIC RESEARCH CORPORATION		23,932 *	116	JAYCOR	S	19,448 *
	Anaheim	California	212		Los Angeles	California	1,765
	Rockville	Maryland	5,713		San Diego	California	12,070
	Severna Park	Maryland	1,007		Washington	D.C.	613
	Silver Spring	Maryland	2,344		Edgewood Arsen	Maryland	482
	Shrewsbury	New Jersey	3,664		Vicksburg	Miss	216
	Albuquerque	New Mexico	344		Dayton	Ohio	1,691
	White Sands Ms	New Mexico	200		Fairborn	Ohio	152
	Dayton	Ohio	117		Alexandria	Virginia	1,094
	Wright Patters	Ohio	824		McLean	Virginia	1,135
	Philadelphia	Penn	1,076		Vienna	Virginia	230
	Warminster	Penn	144	118	MAGNAVOX GOVT & INDUST ELECTR		19,025 *
	Alexandria	Virginia	4,749		Torrance	California	450
	Gainesville	Virginia	3,034		Fort Wayne	Indiana	15,279
	Sterling	Virginia	56		Mahwah	New Jersey	3,296
	Vienna	Virginia	448	119	PAN AM WORLD SERVICES INC		18,591 *
100	AQUA-CHEM INC		23,684 *		Cape Canaveral	Florida	18,081
	Milwaukee	Wisconsin	23,684		Mercury	Nevada	510
102	GTE GOVERNMENT SYSTEMS INC		23,242 *	120	WATKINS-JOHNSON COMPANY		18,256 *
	Needham	Mass	23,183		San Jose	California	18,256
		GERMANY, F	59	121	ACUREX CORPORATION		18,170 *
103	GENERAL MOTORS CORPORATION		22,921 *		Mountain View	California	6,799
	Goleta	California	1,077		Dayton	Ohio	7,306
	Indianapolis	Indiana	20,757		Wright Patters	Ohio	4,065
	Warren	Michigan	1,094	123	AMERICAN SYSTEMS CORPORATION	S	17,140 *
104	EMERSON ELECTRIC CO		22,756 *		Annandale	Virginia	17,094
	Los Angeles	California	1,231		Chantilly	Virginia	46
	St. Louis	Missouri	21,422	124	SACHS-FREEMAN ASSOCIATES INC	S	17,076 *
	Rochester	New York	103		Washington	D.C.	10,148
105	CBI NA-CON INC		22,746 *		Beltsville	Maryland	193
	Oak Brook	Illinois	2,222		Bowie	Maryland	2,218
	Wayne	Penn	17,550		Landover	Maryland	4,517
	Memphis	Tennessee	2,974	125	LOCKHEED ELECTRONICS CO		16,944 *
106	SYSCON CORPORATION		22,681 *		Plainfield	New Jersey	529
	San Diego	California	1,026		White Sands Ms	New Mexico	16,415
	Washington	D.C.	3,421				
	Albuquerque	New Mexico	442				
	Newport	Rhode Isl	249				
	Dahlgren	Virginia	15,073				
	Naval Surface	Virginia	2,470				

- = Minus Amount (Cancellations Exceed New Awards)
S = Small Business

**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Business Firms: FY 1988**

Rank	Name of Contractor Location of Work	Thousands of Dollars		Rank	Name of Contractor Location of Work	Thousands of Dollars
128	E G G WASH ANALYTICAL SVCS CTR Sunnyvale California New London Conn Rockville Maryland Kirtland AFB New Mexico Dahlgren Virginia	16,042 * 70 2,088 9,894 625 3,365		147	ELECTROSPACE SYSTEMS INC Eglin Air Forc Florida Dayton Ohio Fairborn Ohio Richardson Texas Waco Texas Arlington Virginia	11,742 * 408 3,798 412- 689 3,047 4,212
129	PHYSICS INTERNATIONAL COMPANY San Leandro California Andover Mass Woodbridge Virginia	15,971 * 14,286 101 1,584		148	UNIVERSAL ENERGY SYSTEMS INC Dayton Ohio Wright Patters Ohio San Antonio Texas	S 11,658 * 11,157 421 80
130	GLOBAL ASSOCIATES JV RM	15,873 * 15,873		149	WESTERN RESEARCH CORPORATION San Diego California	S 11,589 * 11,589
131	SRS TECHNOLOGIES Huntsville Alabama Irvine California Newport Beach California	S 15,736 * 7,017 250 8,469		151	DYNACORP Yuma Proving G Arizona White Sands Ms New Mexico Wright Patters Ohio	11,437 * 5,750 5,462 225
133	HAZELTINE CORPORATION Braintree Mass Greenlawn New York Huntington New York	15,489 * 9,103 6,358 28		152	PLANNING SYSTEMS INCORPORATED James Virginia McLean Virginia	S 11,326 * 172 11,154
134	PERKIN ELMER CORPORATION Hayward California January Conn Norfolk Conn Norwalk Conn Wilton Conn	15,344 * 3,000 11,054 160 30 1,100		153	INTERMETRICS INC Huntington Bea California Bethesda Maryland Cambridge Mass Oceanport New Jersey Dayton Ohio Warminster Penn	11,284 * 2,450 1,306 546 2,410 339 4,233
135	COMBUSTION ENGINEERING INC Sierra Vista Arizona Windsor Conn	15,298 * 15,268 30		154	ASSURANCE TECHNOLOGY CORP Carlisle Mass	S 11,140 * 11,140
137	MCDONNELL DGLS BELL HEL TEX JV Mesa Arizona	14,000 * 14,000		155	VSE CORPORATION Valparaiso Florida Alexandria Virginia	11,135 * 4,721 6,414
138	SCHAFER W J ASSOCIATES INC Los Angeles California Chelmsford Mass Arlington Virginia	S 13,804 * 64 9,165 4,575		156	ESL INCORPORATED Sunnyvale California	10,928 * 10,928
140	ANALYSIS & TECHNOLOGY INC Groton Conn New London Conn New London Nav Conn North Stoningt Conn Stonington Conn Panama City Florida Panama City Be Florida Syracuse New York Arlington Virginia	13,402 * 851 1,346 253 5,239 385 61 2,090 335 2,842		157	DEERE JOHN TECHNOLOGIES INTL Woodbridge New Jersey	10,788 * 10,788
141	SONICRAFT INC Chicago Illinois	S 13,343 * 13,343		158	STANFORD TELECOMMUNICATIONS Santa Clara California Reston Virginia	S 10,748 * 10,080 668
143	SPACE DATA CORPORATION Tempe Arizona	S 13,210 * 13,210		160	HARRIS-MAGNAVOX SYSTEMS CO(JV) Melbourne Florida	10,628 * 10,628
144	VEDA INCORPORATED Fort Walton Be Florida Dayton Ohio Arlington Penn Warminster Penn Arlington Virginia Pleasant Gap Virginia	12,315 * 1,622 4,341 574 2,197 3,544 37		161	PICKER INTERNATIONAL INC Highland Heigh Ohio	10,560 * 10,560
146	APPLIED RESEARCH INC Huntsville Alabama Danbury Conn Arlington Virginia	S 11,892 * 11,387 80 425		162	COMARCO INC Sierra Vista Arizona	10,453 * 10,453
				163	PAR TECHNOLOGY CORPORATION Colorado Sprin Colorado New Hartford New York Dayton Ohio Huber Heights Ohio	10,432 * 1,549 8,744 90 49
				165	CHAMBERLAIN MANUFACTURING CORP Niles Illinois Waterloo Iowa Cockeysville Maryland	10,297 * 4,081 3,918 2,298

- = Minus Amount (Cancellations Exceed New Awards)
S = Small Business

**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Business Firms: FY 1988**

Rank	Name of Contractor	Location of Work	Thousands of Dollars	Rank	Name of Contractor	Location of Work	Thousands of Dollars
166	E C CORPORATION		S 10,130 *	185	LITTLE ARTHUR D INC		8,664 *
	Huntsville	Alabama	2,678		Fort Walton Be	Florida	244
	Fort Knox	Kentucky	1,361		Cambridge	Mass	8,420
	Knoxville	Tennessee	667	186	PACER SYSTEMS INC		S 8,661 *
	Oak Ridge	Tennessee	5,424		Billerica	Mass	1,618
168	SYSTEM DEVELOPMENT CORPORATION		9,940 *		Billerica Cent	Mass	117
	Huntsville	Alabama	3,754		Horsham	Penn	7,022
	Camarillo	California	969		Mildred	Penn	96-
	Santa Monica	California	913	187	QUEST RESEARCH CORPORATION		8,656 *
	Sunnyvale	California	160		Eatontown	New Jersey	200
	Eatontown	New Jersey	1,699		Dayton	Ohio	2,196
	West Long Bran	New Jersey	200		Falls Church	Virginia	155
	Paoli	Penn	1,361		McLean	Virginia	5,710
	Warminster	Penn	136		Vienna	Virginia	395
	Arlington	Virginia	334	188	ENGINEERING & ECONOMICS RES		S 8,594 *
	McLean	Virginia	414		Huntsville	Alabama	3,199
169	TETRA TECH INC		9,907 *		Beltsville	Maryland	1,034
	San Bernardino	California	9,907		Germantown	Maryland	1,261
170	BDM MANAGEMENT SERVICES CO		9,899 *		McLean	Virginia	2,411
	Kirtland AFB	New Mexico	6,975		Reston	Virginia	266
	Fort Hood	Texas	2,924		Princeton	W Virginia	423
171	ENCORE CORPORATION		S 9,703 *	189	SYSTEMS & ELECTRONICS INC		S 8,584 *
	Marlborough	Mass	9,603		Rolling Meadow	Illinois	8,584
	Somerset	New Jersey	100	190	ANALYTICS INCORPORATED		S 8,535 *
173	SYSTEM PLANNING CORPORATION		9,505 *		Oceanport	New Jersey	428
	Santa Cruz	California	379		Tinton Falls	New Jersey	377
	Arlington	Virginia	9,126		Willow Grove	Penn	2,217
174	FOSTER-MILLER INC		S 9,474 *		Manassas	Virginia	5,513
	Waltham	Mass	9,406	191	WILLIAMS INTERNATIONAL CORP		8,499 *
	Waltham North	Mass	68		Walled Lake	Michigan	8,499
175	ADVANCED DECISION SYSTEMS		S 9,249 *	192	OLIN CORPORATION		8,348 *
	Mountain View	California	9,249		Stamford	Conn	281
178	DBA SYSTEMS INC		S 9,182 *		East Alton	Illinois	8,067
	Irvine	California	418	194	EAGLE TECHNOLOGY INC		S 8,327 *
	Kissimmee	Florida	36		Fullerton	California	3,673
	Melbourne	Florida	8,728		Winter Park	Florida	143
179	GA TECHNOLOGIES INC		9,136 *		Eatontown	New Jersey	443
	San Diego	California	9,136		Ocean	New Jersey	209
180	VITRONICS INC		S 9,068 *		Arlington	Virginia	3,859
	Eatontown	New Jersey	4,669	195	SPACE APPLICATIONS CORPORATION		S 8,288 *
	Oceanport	New Jersey	4,399		Santa Clara	California	8,288
181	PACIFIC SIERRA RESEARCH CORP		9,019 *	196	VERAC INCORPORATED		S 8,278 *
	Los Angeles	California	6,009		Anaheim	California	893
	Santa Monica	California	1,559		George AFB	California	427
	White Sands Ms	New Mexico	749		San Diego	California	2,988
	Montague	N Carolina	75		Albuquerque	New Mexico	3,145
	Arlington	Virginia	627		Fairborn	Ohio	128
183	CUIMINS ENGINE COMPANY INC		8,822 *		Bergstrom AFB	Texas	697
	Columbus	Indiana	8,822	199	CALIFORNIA RES & TECHNOLOGY		7,843 *
184	TELEDYNE INDUSTRIES INC		8,680 *		Los Angeles	California	7,155
	Los Angeles	California	2,019		Princeton	New Jersey	501
	San Diego	California	1,620		Albuquerque	New Mexico	187
	Santa Clara	California	2,496	200	SOFTECH INC		7,832 *
	Thousand Oaks	California	199		San Diego	California	548
	Torrance	California	96		Waltham	Mass	110
	Muskegon	Michigan	732		Fairborn	Ohio	274
	Garland	Texas	723		Houston	Texas	634
	Hill Air Force	Utah	407		Alexandria	Virginia	6,266
	Alexandria	Virginia	388				

- = Minus Amount (Cancellations Exceed New Awards)
S = Small Business

**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Business Firms: FY 1988**

Rank	Name of Contractor	Location of Work	Thousands of Dollars	Rank	Name of Contractor	Location of Work	Thousands of Dollars
201	U T L CORPORATION		S 7,781 *	221	TEXTRON INC		6,885 *
	Sunnyvale	California	153		Belmont	California	3,145
	Dallas	Texas	7,628		Warren	Michigan	133
202	ANALYTICAL SYSTEMS ENGRG CORP		S 7,758 *		Buffalo	New York	2,807
	Salinas	California	124		Wheatfield	New York	800
	Westlake Villa	California	607	222	PLANNING RESEARCH CORPORATION		6,872 *
	Melbourne	Florida	310		Offutt AFB	Nebraska	263
	Orlando	Florida	100		Philadelphia	Penn	470
	Clarksburg	Maryland	146		McLean	Virginia	6,139
	Burlington	Mass	6,324	225	WESTERN INSTRUMENT CORPORATION	S	6,793 *
	Rome	New York	147		Ventura	California	6,793
203	BRUNSWICK CORPORATION		7,728 *	227	STERIMATICS CORPORATION		6,628 *
	Costa Mesa	California	4,500		Bedford	Mass	6,628
	San Diego	California	471	228	ADVANCED TECHNOLOGY INC		6,627 *
	San Francisco	California	43		Huntsville	Alabama	51
	De Land	Florida	563		Orlando	Florida	1,098
	Marion	Virginia	2,151		Naval Underwat	Rhode Isl	100
205	NEWPORT NEWS SHPBLDNG DRYDOCK		7,661 *		Dahlgren	Virginia	1,071
	Charlottesville	Virginia	7,661		Reston	Virginia	4,307
208	MAR INCORPORATED		S 7,506 *	230	ELECTRONIC DECISIONS INC	S	6,578 *
	Panama City	Florida	2,552		Urbana	Illinois	6,578
	Rockville	Maryland	4,954	234	CAMPBELL ENGINEERING INC	S	6,395 *
210	MARQUARDT COMPANY THE		7,474 *		Huntsville	Alabama	6,395
	Los Angeles	California	7,474	235	R J O ENTERPRISES INC	S	6,362 *
211	LOCUS INC		S 7,448 *		Lanham	Maryland	5,899
	Washington	D.C.	40		Dayton	Ohio	463
	Clarion	Penn	138	236	DYNETICS INC	S	6,293 *
	Spraggs	Penn	129		Huntsville	Alabama	6,293
	State College	Penn	5,939	238	SYSTEMS PLANNING & ANALYSIS	S	6,221 *
	Alexandria	Virginia	604		Arlington	Virginia	150
	Arlington	Virginia	598		Falls Church	Virginia	6,071
213	LITTON INDUSTRIES INC		7,289 *	239	ORBITAL SCIENCES CORPORATION	S	6,128 *
	San Carlos	California	458		Fairfax	Virginia	6,128
	San Diego	California	70	241	TECHDYN SYSTEMS CORPORATION	S	6,010 *
	Sunnyvale	California	1,115		Oceanport	New Jersey	1,152
	Lexington	Mass	5,646		McLean	Virginia	493
214	AEROMET INC		S 7,278 *		Springfield	Virginia	4,365
	Tulsa	Oklahoma	7,278	242	GENERAL DYNAMICS WESTINGHOUSE JV		6,000 *
215	INTEGRATED SYSTEMS ANALYSTS		S 7,257 *		Pomona	California	6,000
	Chula Vista	California	1,111	243	MANTECH INTERNATIONAL CORP		5,961 *
	San Diego	California	350		Sierra Vista	Arizona	1,103
	New London	Conn	612		Los Alamos	New Mexico	429
	Arlington	Virginia	5,073		Wright Patters	Ohio	4,379
	Merrifield	Virginia	111		Alexandria	Virginia	50
216	FAIRCHILD INDUSTRIES INC		7,235 *	247	OPTIMETRICS INC	S	5,875 *
	Washington	D.C.	775		Ann Arbor	Michigan	5,138
	Annapolis	Maryland	96		Fairborn	Ohio	737
	Germantown	Maryland	6,411	248	MAREMONT CORPORATION		5,863 *
	Farmingdale	New York	47-		Saco	Maine	5,863
217	DEFENSE SYSTEMS INC		S 7,028 *	252	S SYSTEMS CORPORATION	S	5,785 *
	McLean	Virginia	7,028		Inglewood	California	5,360
218	VECTOR RESEARCH COMPANY INC		S 7,027 *		Albuquerque	New Mexico	425
	Bethesda	Maryland	7,027	253	FAIRCHILD WESTON SYSTEMS INC		5,712 *
220	RAYTHEON SERVICE COMPANY		6,901 *		Palo Alto	California	275
	Bath	Maine	143		Syosset	New York	1,440
	Marlborough	Mass	5,287		Archbald	Penn	3,158
	White Sands Ms	New Mexico	501		Horsham	Penn	839
	Wright Patters	Ohio	464				
	Dahlgren	Virginia	506				

- = Minus Amount (Cancellations Exceed New Awards)
S = Small Business

**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Business Firms: FY 1988**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
254	ELECTRONIC WARFARE ASSOCIATES Beavercreek Ohio Dayton Ohio Vienna Virginia	S 5,708 * 50 330 5,328	275	ORLANDO HELICOPTER AIRWAYS Sanford Florida	S 5,189 * 5,189
255	RAYMOND ENGINEERING INC Middletown Conn	5,700 * 5,700	276	HILTON SYSTEMS INC Huntsville Alabama Tampa Florida Mount Arlington New Jersey	S 5,114 * 3,250 1,070 794
257	BECHTEL NATIONAL, INC San Francisco California	5,693 * 5,693	277	WALLACE T H INC Indian Harbour Florida Melbourne Florida Melbourne Beach Florida Springfield Virginia	S 5,109 * 3,490 874 73 672
258	XONTECH INC Los Angeles California	S 5,651 * 5,651	278	LOS ALAMOS TECHNICAL ASSOC INC Los Alamos New Mexico	S 5,030 * 5,030
259	I L C INDUSTRIES DELAWARE Frederica Delaware	5,648 * 5,648	280	ITI/MARTIN MARIETTA JV Orlando Florida	5,000 * 5,000
260	QUESTECH INC Dayton Ohio McLean Virginia	5,621 * 50 5,571	282	SPIRE CORPORATION Bedford Mass	S 4,974 * 4,974
262	ARINC RESEARCH CORPORATION San Diego California Annapolis Maryland	5,593 * 849 4,744	283	OPTIC-ELECTRONIC CORP Dallas Texas	4,900 * 4,900
263	EBASCO SERVICES INC New York New York	5,575 * 5,575	284	APTEK INC Colorado Sprin Colorado	S 4,881 * 4,881
265	SYSTEMS EXPLORATION INC San Diego California Dayton Ohio Vienna Virginia	S 5,536 * 5,254 225 57	285	TRACOR INSTRUMENTS AUSTIN INC San Ramon California Austin Texas	4,842 * 127 4,715
267	ALLIED SIGNAL INC Phoenix Arizona Thousand Oaks California Torrance California South Bend Indiana Eatontown New Jersey Moorestown-Len New Jersey Morristown New Jersey	5,492 * 2,442 1,059 300 109 515 339 728	287	COMPTON RESEARCH INC Camarillo California	4,822 * 4,822
268	SEMCO INC Huntsville Alabama Farmingdale New Jersey Mount Laurel New Jersey Wall New Jersey Warminster Penn	S 5,461 * 50 598 3,394 135 1,284	288	XEROX CORPORATION Palo Alto California Pasadena California Webster New York	4,752 * 810 3,828 114
269	NATION INC Oceanport New Jersey Shrewsbury New Jersey	S 5,427 * 2,818 2,609	289	ECC INTERNATIONAL CORP Orlando Florida	S 4,682 * 4,682
270	ARES INC Port Clinton Ohio	5,397 * 5,397	290	APPLIED TECHNOLOGY ASSOCIATES Orlando Florida Albuquerque New Mexico Kirtland AFB New Mexico	S 4,676 * 183 4,345 148
271	SPARTON CORPORATION Fort Wayne Indiana Jackson Michigan	5,349 * 3,427 1,922	291	GOULD INC El Monte California New London Conn Rolling Meadows Illinois Glen Burnie Maryland Cleveland Ohio Middletown Rhode Isl	4,673 * 116 58- 871 1,237 2,413 94
272	DYNAMICS RESEARCH CORPORATION San Diego California Andover Mass Wilmington Mass Ann Arbor Michigan Newport Rhode Isl	5,328 * 81 3,271 948 941 87	292	DCS CORPORATION Alexandria Virginia	S 4,645 * 4,645
273	AUTOMATED SCIENCES GROUP INC Huntsville Alabama Manhattan Beach California Silver Spring Maryland Dahlgren Virginia	S 5,323 * 4,834 246- 650 85	293	BRUNSWICK CDC Clearwater Florida	4,637 * 4,637
			294	G & F CO Santa Clara California	4,634 * 4,634
			295	SYNETICS CORPORATION Reading Mass Wakefield Mass Vienna Virginia	S 4,618 * 2,475 2,194 49

- = Minus Amount (Cancellations Exceed New Awards)
S = Small Business

**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Business Firms: FY 1988**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
296	CINCINNATI ELECTRONICS CORP Cincinnati Ohio	4,607 * 4,607	323	ANDRULIS RESEARCH CORP Bethesda Maryland Salt Lake City Utah	S 4,608 * 3,440 568
298	BERKELEY RESEARCH ASSOCIATES Berkeley California Fairfax Virginia Springfield Virginia	S 4,540 * 3,113 79 1,357	324	SIPPICAN INC Marion Mass	S 3,954 * 3,954
299	TECHNICAL & MGT SVCS CORP Eatontown New Jersey Oceanport New Jersey Dayton Ohio	S 4,533 * 1,011 389 3,133	325	OW CORNING CORPORATION Midland Michigan	3,946 * 3,946
300	MC DONNELL DUGLAS INTD INT Tampa Florida Chesapeake Virginia McLean Virginia	4,512 * 850 3,527 335	326	UNITED INTERNATIONAL ENGRG Huntsville Alabama Albuquerque New Mexico	S 3,885 * 475 3,410
301	ARMORED VEHICLE TECHNOLOGIES ASSOC Troy Michigan	4,505 * 4,505	329	DOSS AVIATION INC Shepherd Texas	S 3,774 * 3,774
302	E D & G INC Salem Mass Las Vegas Nevada Princeton New Jersey	4,503 * 180 4,293 40	330	SUMMIT AVIATION INC Middletown Delaware	S 3,773 * 3,773
304	BRINCON CORPORATION Placentia California San Diego California	S 4,437 * 1,175 3,431	332	U S B I CO Huntsville Alabama	3,730 * 3,730
307	EVALUATION RESEARCH CORP San Diego California Fairfax Virginia	4,332 * 226 4,154	333	LOCKHEED ENGRG & SCIENCES CO Dugway Proving Utah	S 3,719 * 3,719
308	TRACOR INC Grafton Conn Rockville Maryland Austin Texas	4,327 * 150 174 3,403	335	KEYSTONE COMPUTER ASSOCIATES Fort Washington Penn Warminster Penn	S 3,650 * 3,475 175
311	SUNSTRAND CORPORATION San Diego California Rockford Illinois	4,211 * 2,158 2,053	336	DELTA RESEARCH INC Huntsville Alabama	S 3,572 * 3,572
313	MAC AULAY BROWN INC Shawnee Florida Dayton Ohio Fairborn Ohio	S 4,143 * 369 3,318 455	337	COLEMAN RESEARCH CORPORATION Huntsville Alabama Orlando Florida	S 3,520 * 2,863 651
314	APPLIED RESEARCH ASSOC INC Lakeview Colorado Albuquerque New Mexico Raleigh N Carolina South Royalton Vermont	S 4,126 * 141 3,456 462 58	339	AYDIN CORPORATION Horsham Penn	3,507 * 3,507
315	ALPHATECH INC Burlington Mass	S 4,122 * 4,122	340	ZEPHORE SYSTEMS INC Arlington Texas	S 3,437 * 3,437
317	OCEAN DATA SYSTEMS INC Rockville Maryland	S 4,110 * 4,110	341	EASTMAN KODAK COMPANY Rochester New York	3,458 * 3,458
318	PHYSICAL RESEARCH INC Huntsville Alabama Rolling Hills California Torrance California	S 4,034 * 170 148 3,776	342	NUCLEAR METALS INC Concord Mass	S 3,452 * 3,452
320	ANALYSIS & COMPUTER SYSTEMS Bedford Mass	S 4,025 * 4,025	343	AQUINEUX SYSTEMS INTL Middletown Rhode Island	S 3,400 * 3,400
322	BMS TECHNOLOGIES INCORPORATED Lexington Mass Trevose Penn	S 4,027 * 437 3,530	346	F C A ENGINEERING Costa Mesa California Santa Ana California Albuquerque New Mexico	S 3,347 * 2,994 303 50
			347	AM GENERAL CORPORATION South Bend Indiana Livonia Michigan	3,305 * 3,266 39
			348	SONALYSTS INC New London Conn Waterford Conn Virginia Beach Virginia	S 3,303 * 260 2,932 111
			349	NETWORK SOLUTIONS INC San Bernardino California Alexandria Virginia	S 3,293 * 2,319 974

* = Minus Amount (Cancellations Exceed New Awards)
S = Small Business

**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Business Firms: FY 1988**

Rank	Name of Contractor	Location of Work	Thousands of Dollars	Rank	Name of Contractor	Location of Work	Thousands of Dollars
350	SYSTRAN CORP	Dayton Ohio	S 3,241 *	376	FIBERTEK INC	Herndon Virginia	S 2,850 *
			3,231				2,850
351	J W P COMMUNICATIONS MFG CO	Long Beach California	S 3,280 *	377	DYNAMAC INTERNATIONAL INC	Tyndall AFB Florida	2,834 *
			3,280			Rockville Maryland	57
352	INDUSTRIAL DATA LINK CORP	San Diego California	S 3,264 *				2,777
			3,264	378	KETRON INC	Towson Maryland	S 2,814 *
353	PHOTON RESEARCH ASSOCIATES	Placentia California	S 3,248 *			Malvern Penn	459
		San Diego California	670			Philadelphia Penn	1,691
		Cambridge Mass	2,147			Warminster Penn	242
		Port Jefferson New York	281			Arlington Virginia	372
			150				50
354	SCIENCE RESEARCH LABORATORY	Somerville Mass	S 3,240 *	379	ENGINEERING & PROF SVCS	Tinton Falls New Jersey	S 2,807 *
			3,240				2,807
357	SEACO INC	San Diego California	S 3,191 *	380	TITAN CORPORATION	Los Angeles California	2,807 *
		Kailua Hawaii	38			San Diego California	439
			3,153			Albuquerque New Mexico	1,501
358	AEL INDUSTRIES INC	Lansdale Penn	3,190 *			Vienna Virginia	246
			3,182			GERMANY, F	33
359	SCIFE INCORPORATED	Fairfax Virginia	S 3,155 *				588
		Reston Virginia	125	381	ATLANTIC AEROSPACE ELECTRONICS	Greenbelt Maryland	S 2,783 *
			3,031			Waltham Mass	753
361	JOYSEY RESEARCH ASSOCIATES	Ithaca New York	S 3,130 *			Arlington Virginia	1,979
			3,130				51
363	CELOD INDUSTRIES INC	Summit New Jersey	3,093 *	383	GIORDANO ASSOCIATES INC	Long Branch New Jersey	S 2,757 *
			3,093			Sparta New Jersey	1,630
364	ALCOA DEFENSE SYSTEMS INC	San Diego California	3,052 *			West Long Bran New Jersey	485
			3,052				642
365	OTA INCORPORATED	Ridgewood California	S 3,036 *	384	ITE INC	Beltsville Maryland	S 2,757 *
		Englewood Colorado	2,149				2,757
		Dayton Ohio	442	386	L GARDE INC	Newport Beach California	S 2,727 *
			445			Tustin California	300
367	TRACOR APPLIED SCIENCES INC	San Diego California	3,035 *				2,427
		Groton Conn	1,043	387	LORAL SYS CO	Pasadena California	2,709 *
		Rockville Maryland	59				2,709
		Austin Texas	310	388	LEADING SYSTEMS, INC	Irvine California	S 2,705 *
			1,623				2,705
371	AUTOMETRIC INC	Boston Mass	S 2,911 *	390	UTD INC	Alexandria Virginia	S 2,690 *
		Rome New York	130			Springfield Virginia	1,654
		Dallas Texas	442				1,036
		San Antonio Texas	524	392	MATERIALS SCIENCE CORP	Spring House Penn	S 2,589 *
		Alexandria Virginia	50				2,589
		Falls Church Virginia	871	393	CAS INC	Huntsville Alabama	S 2,554 *
		Vienna Virginia	501				2,554
			363	394	CACI INTERNATIONAL INT	Washington D.C.	2,550 *
372	TEKKNOWLEDGE INC	Thousand Oaks California	S 2,883 *			San Antonio Texas	1,057
			2,883			Arlington Virginia	150
373	PHYSICAL SCIENCES INC	Andover Mass	S 2,873 *				1,349
		Woburn Mass	2,773	395	EPOCH ENGINEERING INC	Galtherstburg Maryland	S 2,518 *
		Alexandria Virginia	50				2,518
			50	396	INFORMATION SYSTEMS NTURNS CORP	Bethesda Maryland	S 2,516 *
374	HUGHES APT & TEXAS INSTR IV	El Segundo California	2,883 *			Dayton Ohio	1,194
			2,883				1,300
375	SYSTEM DYNAMICS INC	Huntsville Alabama	S 2,864 *	398	PAUL COMPANY	Towson Maryland	S 2,502 *
		Gainesville Florida	2,861			Arlington Virginia	501
			39			Falls Church Virginia	50
							1,635

*Means Award for Contractors Exceeded New Award for Small Business

**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Business Firms: FY 1988**

Rank	Name of Contractor	Location of Work	Thousands of Dollars	Rank	Name of Contractor	Location of Work	Thousands of Dollars
399	SCIENCE & TECHNOLOGY CORP		S 2,505 *	420	FEMMECAMP INC		S 2,365 *
	Edgewood	Maryland	106		Manassas	Virginia	2,365
	Las Cruces	New Mexico	562	421	WEIDLINGER ASSOCIATES INC		S 2,343 *
	Hampton	Virginia	1,837		Los Altos	California	40
400	E I C LABORATORY INC		S 2,500 *		Palo Alto	California	936
	Newton	Mass	488		New York	New York	1,367
	Norwood	Mass	2,012	423	AEROLIFT INC		S 2,325 *
402	FIBER MATERIALS INC		S 2,495 *		Tillamook	Oregon	2,325
	Biddeford	Maine	2,495	425	AERODYNE RESEARCH INC		S 2,322 *
403	SUMMIT TECHNOLOGIES INC		S 2,493 *		Billerica	Mass	2,273
	Springfield	Virginia	2,492		North Billeric	Mass	49
404	COMPUTER RESOURCE ENGRG ASSOC		2,467 *	426	ARETE ASSOCIATES		S 2,302 *
	Chantilly	Virginia	250		Los Angeles	California	1,237
	Vienna	Virginia	78		San Diego	California	815
	Warrenton	Virginia	1,890		Arlington	Virginia	250
		GERMANY, F	249	427	SYSTEMS & LOGISTICS CORP		S 2,297 *
405	HUGHES ASSOCIATES INC		S 2,464 *		San Bernardino	California	2,297
	Wheaton-Glenmo	Maryland	2,464	428	AMERICAN OPTICAL CORPORATION		2,269 *
406	SCIENCE & TECHNOLOGY ASSOC		S 2,463 *		Southbridge	Mass	2,269
	Arlington	Virginia	2,463	429	ADVANCED DIGITAL SYSTEM INC		S 2,268 *
407	NORDEN SYSTEMS INC		2,449 *		San Diego	California	2,268
	Santa Ana	California	590	431	UNITED AIRLINES SERVICES CORP		2,253 *
	Norwalk	Conn	1,807		Lakewood	Colorado	800
	Melville	New York	52		Irving	Texas	1,453
409	PATEL ENTERPRISES INCORPORATED		S 2,445 *	432	SYGNETRON PROTECTION SYSTEMS		S 2,248 *
	Huntsville	Alabama	2,445		Lutherville-Ti	Maryland	2,248
410	DECISION-SCIENCE APPLICATIONS		S 2,436 *	433	ARRAL INDUSTRIES INC		S 2,241 *
	Arlington	Virginia	2,436		Ontario	California	2,241
411	KAMAN AEROSPACE CORPORATION		2,423 *	435	TOYON RESEARCH CORP		S 2,234 *
	Bloomfield	Conn	2,423		Goleta	California	1,966
412	DOW CHEMICAL COMPANY THE		2,417 *		Santa Barbara	California	268
	Midland	Michigan	2,167	437	B-K DYNAMICS INC		S 2,221 *
	Saginaw	Michigan	250		San Diego	California	473
413	GENERAL APPLIED SCIENCE		S 2,405 *		Washington	D.C.	546
	Ronkonkoma	New York	2,405		Rockville	Maryland	1,202
414	ADVANCED SCIENCES INC		S 2,397 *	438	CUBIC CORPORATION		2,206 *
	Albuquerque	New Mexico	2,397		San Diego	California	2,206
415	HYPRES INC		S 2,395 *	440	THINKING MACHINES CORPORATION		S 2,197 *
	Elmsford	New York	2,395		Cambridge	Mass	2,197
416	POLARIS INC		S 2,392 *	442	INTERNATIONAL COMPUTERS TELECOM		S 2,190 *
	Arlington	Virginia	1,367		Rockville	Maryland	2,190
	Falls Church	Virginia	1,025	443	TEXAS RESEARCH INSTITUTE INC		S 2,185 *
417	ORION INTL TECHNOLOGIES		S 2,383 *		Austin	Texas	2,185
	Albuquerque	New Mexico	956	444	ADVANCED RES & APPLICATIONS		S 2,171 *
	White Sands Ms	New Mexico	1,427		Sunnyvale	California	2,171
418	SYSTEMS RES APPLICATIONS CORP		S 2,379 *	445	CORTANA CORPORATION		S 2,162 *
	El Segundo	California	133		Falls Church	Virginia	2,162
	San Bernardino	California	129	446	KNOWLEDGE SYSTEMS CONCEPTS		S 2,162 *
	Arlington	Virginia	2,117		Mountain View	California	485
419	ELECTRONIC ASSOCIATES INC		S 2,366 *		Rome	New York	1,040
	Redstone Arsen	Alabama	800		Dayton	Ohio	125
	West Long Bran	New Jersey	1,556		Falls Church	Virginia	512

- = Minus Amount (Cancellations Exceed New Awards)
S = Small Business

**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Business Firms: FY 1988**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
447	SCIENTIFIC RESEARCH ASSOC Glastonbury Conn	S 2,161 * 2,161	470	SCIENTIFIC SYSTEMS INC Boston Mass Cambridge Mass	S 1,993 * 1,814 179
448	CORVUS SYSTEMS INCORPORATED Charlottesville Virginia Vienna Virginia	S 2,159 * 254 1,905	472	MICROELECTRONICS Austin Texas	1,974 * 1,974
449	O A O CORPORATION El Segundo California Greenbelt Maryland	2,156 * 1,856 300	473	SYSTEM RESOURCES CORPORATION Woburn Mass Shrewsbury New Jersey	S 1,974 * 1,584 390
451	I-NET INC Rockville Maryland	S 2,124 * 2,124	474	VISIDYNE INC Burlington Mass	S 1,966 * 1,966
454	LOGISTICS MANAGEMENT ENGRG China Lake NUC California Annapolis Maryland Warminster Penn	S 2,103 * 588 1,470 45	475	POTOMAC SYSTEMS ENGINEERING Annandale Virginia	S 1,965 * 1,965
455	ARMAMENT SYSTEMS INC Anaheim California Fort Walton Be Florida Aberdeen Maryland	S 2,096 * 1,448 92 556	476	PARSONS RALPH M COMPANY THE Pasadena California	1,963 * 1,963
456	EDO CORPORATION Shelton Conn New York New York	2,094 * 111 1,983	477	NETWORK EQUIPMENT TECHNOLOGIES Redwood City California	1,939 * 1,939
458	ROHM AND HAAS COMPANY Philadelphia Penn	2,075 * 2,075	478	RESEARCH & DEV LABORATORIES Culver City California Los Angeles California San Francisco California	S 1,935 * 1,100 163 672
459	LSI INC Huntsville Alabama	S 2,071 * 2,071	479	ARGOSYSTEMS INC Sunnyvale California	1,919 * 1,919
460	N K F ENGINEERING INC San Diego California Arlington Virginia Reston Virginia	S 2,065 * 431 79 1,555	480	RAVEN INC Springfield Virginia	S 1,909 * 1,909
461	SYSTEMS APPLICATIONS, INC McLean Virginia	2,053 * 2,053	481	ESSEX CORPORATION Fort Rucker Alabama Huntsville Alabama Orlando Florida Warminster Penn Alexandria Virginia	S 1,897 * 100 518 841 95 343
462	COMMAND CONTRL COMMUNICATIONS San Diego California Oceanport New Jersey	2,050 * 1,750 300	482	PACIFICA TECHNOLOGY Del Mar California San Diego California	S 1,896 * 998 898
463	TALLEY DEFENSE SYSTEMS INC Mesa Arizona	2,048 * 2,048	483	H R TEXTRON INC Los Angeles California Valencia California	1,882 * 75 1,807
465	TECHNOLOGY DEVELOPMENT CORP Huntsville Alabama	S 2,030 * 2,030	485	TELECOMMUNICATION SCIENCE ASSOC San Diego California Dallas Texas	S 1,877 * 1,697 180
466	SCI TEC INC Princeton New Jersey Shrewsbury New Jersey Wall New Jersey Wayside New Jersey Dayton Ohio	S 2,005 * 726 535 90 85 569	486	GENTEX CORPORATION Carbondale Penn	1,870 * 1,870
467	REMINGTON ARMS COMPANY INC Ilion New York	2,004 * 2,004	488	T S C INC Santa Monica California New London Conn Fort Lauderdale Florida Silver Spring Maryland Dahlgren Virginia	1,847 * 1,480 100 59 62 146
468	EAGLE-PICHER INDUSTRIES INC El Segundo California Colorado Sprin Colorado Lenexa Kansas Joplin Missouri	2,002 * 890 225 343 544	491	KOLLMORGEN CORPORATION Northampton Mass Roanoke Virginia	1,837 * 1,752 85
469	DURODYNE INC Tucson Arizona	S 1,998 * 1,998	493	NTS ENGINEERING Long Beach California	S 1,832 * 1,832

- = Minus Amount (Cancellations Exceed New Awards)
S = Small Business

**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Business Firms: FY 1988**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
494	MAYFLOWER COMMUNICATION CO Sunnyvale California Wakefield Mass	S 1,826 * 50 1,776			
496	LASER SCIENCE, INC Cambridge Mass	S 1,816 * 1,816			
497	AHNTECH INC San Diego California	S 1,814 * 1,814			
498	SCIENCE & ENGINEERING ASSOC Denver Colorado Bellevue Nebraska Albuquerque New Mexico Kirtland AFB New Mexico	S 1,795 * 51 48 1,546 150			
499	C V D INCORPORATED Woburn Mass	1,794 * 1,794			
500	NATIONAL FORGE COMPANY Irvine Penn	1,780 * 1,780			
	TOTAL	19,026,713			

- = Minus Amount (Cancellations Exceed New Awards)
S = Small Business

**Table 3. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Educational and Nonprofit Institutions: FY 1988**

Rank	Name of Contractor	Location of Work	Thousands of Dollars	Rank	Name of Contractor	Location of Work	Thousands of Dollars
15	MASSACHUSETTS INST OF TECHNOLOGY		403,665 *	65	RAND CORPORATION		44,928 *
	Columbia	Maryland	50		Los Angeles	California	19,222
	Cambridge	Mass	36,216		Santa Monica	California	25,706
	Lexington	Mass	367,399	69	GEORGIA INSTITUTE TECHNOLOGY		41,395 *
16	AEROSPACE CORPORATION		367,000 *		Atlanta	Georgia	41,395
	El Segundo	California	367,000	79	STANFORD UNIVERSITY		33,773 *
18	JOHNS HOPKINS UNIVERSITY		353,949 *		Los Angeles	California	523
	Baltimore	Maryland	5,493		Stanford	California	25,753
	Laurel	Maryland	346,410		Stanford Univ	California	7,437
	Shady Side	Maryland	46	87	UNIVERSITY OF SOUTHERN CALIF		27,819 *
19	MITRE CORPORATION		351,616 *		Los Angeles	California	27,303
	Bedford	Mass	342,187		Marina del Ray	California	253
	McLean	Virginia	9,429		San Diego	California	263
28	DRAPER CHARLES STARK LAB INC		139,592 *	88	ANALYTIC SERVICES INC		27,362 *
	Cambridge	Mass	139,592		Arlington	Virginia	27,362
47	UNIVERSITY OF CALIFORNIA		66,325 *	97	BATTELLE MEMORIAL INSTITUTE		24,450 *
	Berkeley	California	12,559		Birmingham	Alabama	96
	Davis	California	884		Huntsville	Alabama	144
	Fullerton	California	40		Tucson	Arizona	56
	Irvine	California	3,508		Azusa	California	42
	Livermore	California	100		Berkeley	California	129
	Long Beach	California	1,699		Huntington Bea	California	27
	Los Angeles	California	7,911		Los Angeles	California	40
	Oakland	California	73		Placentia	California	35
	Placentia	California	7,425		Santa Monica	California	136
	Riverside	California	261		Solana Beach	California	27
	San Diego	California	19,143		Stanford	California	28
	San Francisco	California	1,453		Fort Collins	Colorado	35
	Santa Barbara	California	9,982		Milford	Conn	39
	Santa Cruz	California	1,123		Orange	Conn	70
	Torrance	California	164		Simsbury	Conn	48
49	SRI INTERNATIONAL		59,125 *		Washington	D.C.	41
	Menlo Park	California	59,125		Melbourne	Florida	74
52	ILLINOIS RESEARCH INSTITUTE		55,557 *		Orlando	Florida	26
	Colorado Sprin	Colorado	50		Satellite Beac	Florida	102
	Chicago	Illinois	50,157		Tallahassee	Florida	40
	Chicago O'Hare	Illinois	50		Tampa	Florida	31
	Lanham	Maryland	1,407		Atlanta	Georgia	102
	Bellevue	Nebraska	95		Columbus	Georgia	28
	Rochester	New York	370		Champaign	Illinois	145
	Rome	New York	370		Chicago	Illinois	74
	Bartlesville	Oklahoma	56		Urbana	Illinois	102
	Philadelphia	Penn	627		West Lafayette	Indiana	28
	Oak Ridge	Tennessee	2,046		Leawood	Kansas	45
	GERMANY, F		329		Orono	Maine	38
58	CARNEGIE-MELLON UNIVERSITY		50,014 *		Aberdeen Prov	Maryland	3,630
	Pittsburgh	Penn	50,014		Baltimore	Maryland	70
63	PENNSYLVANIA STATE UNIV THE		46,816 *		Elkton	Maryland	87
	Penn State Col	Penn	200		Rockville	Maryland	30
	State College	Penn	46,616		Anherst	Mass	28
64	UNIVERSITY OF TEXAS SYSTEM		46,008 *		Cambridge	Mass	154
	Allenfarm	Texas	50		Chelmsford	Mass	60
	Arlington	Texas	739		Reading	Mass	75
	Austin	Texas	41,602		Wakefield	Mass	28
	Dallas	Texas	300		Wilmington	Mass	40
	El Paso	Texas	94		Ann Arbor	Michigan	103
	Galveston	Texas	1,061		Minneapolis	Minnesota	32
	Houston	Texas	146		St. Paul	Minnesota	67
	Richardson	Texas	1,751		St. Louis	Missouri	111
	San Antonio	Texas	265		Chatham	New Jersey	50
					Florham Park	New Jersey	45
					Princeton	New Jersey	107
					Shrewsbury	New Jersey	40
					West Caldwell	New Jersey	35
					Espanola	New Mexico	27
					Las Cruces	New Mexico	66
					Albany	New York	28
					New York	New York	28
					Syracuse	New York	78
					Troy	New York	76

- = Minus Amount (Cancellations Exceed New Awards)
S = Small Business

**Table 3. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Educational and Nonprofit Institutions: FY 1988**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
	BATTELLE MEMORIAL INSTITUTE				
	Raleigh N Carolina	35	142	UNIVERSITY OF MARYLAND	13,292 *
	Columbus Ohio	16,276		Denver Colorado	88
	Kettering Ohio	36		Washington D.C.	183
	Worthington Ohio	37		Baltimore Maryland	2,251
	Bethlehem Penn	35		Cambridge Maryland	27
	Madison Penn	48		College Park Maryland	10,426
	Philadelphia Penn	31		Falls Church Virginia	40
	Columbia S Carolina	30		CHILE	277
	Austin Texas	30			
	College Station Texas	51	145	LOGISTICS MANAGEMENT INST	12,297 *
	Dallas Texas	31		Bethesda Maryland	12,297
	El Paso Texas	32			
	Salt Lake City Utah	26	164	MASSACHUSETTS UNIVERSITY OF	10,389 *
	Charlottesville Virginia	61		Amherst Mass	9,346
	Fairfax Virginia	130		Amherst Center Mass	300
	Herndon Virginia	26		Worcester Mass	704
	Manassas Virginia	28		Cincinnati Ohio	39
	Norfolk Virginia	36	167	COLUMBIA UNIVERSITY	9,958 *
	Reston Virginia	28		New York New York	9,918
	Springfield Virginia	76		Palisades New York	40
	Vienna Virginia	118			
	Virginia Beach Virginia	37	172	SOUTHWEST RESEARCH INSTITUTE	9,604 *
	Richland Washington	289		China Lake NWC California	62
98	RIVERSIDE RESEARCH INSTITUTE	24,434 *		San Antonio Texas	9,359
	Bedford Mass	1,262		San Antonio Ai Texas	183
	New York New York	22,764	176	UNIVERSITY OF MICHIGAN	9,241 *
	Arlington Virginia	408		Washington D.C.	44
101	HUDSON INSTITUTE INC	23,655 *		Ann Arbor Michigan	8,607
	Indianapolis Indiana	19,670		Dearborn Michigan	450
	Alexandria Virginia	3,985		Lansing Michigan	140
108	UNIVERSITY OF WASHINGTON	20,837 *	177	CALIFORNIA INST OF TECHNOLOGY	9,204 *
	Seattle Washington	20,837		Huntington Bea California	81
109	UNIVERSITY OF ILLINOIS	20,697 *		Pasadena California	9,123
	Normal Alabama	100	182	PURDUE UNIVERSITY	8,877 *
	Caldwells Illinois	45		Lafayette Indiana	1,145
	Champaign Illinois	7,716		Purdue Univers Indiana	464
	Chicago Illinois	4,970		West Lafayette Indiana	7,268
	Urbana Illinois	7,866	193	GEORGE WASHINGTON UNIV THE	8,344 *
110	INSTITUTE FOR DEF ANALYSES	20,657 *		Washington D.C.	8,344
	Alexandria Virginia	20,657	197	ITT RESEARCH INSTITUTE	8,212 *
117	UNIVERSITY OF DAYTON INC	19,423 *		Chicago Illinois	8,212
	Williams AFB Arizona	2,444	198	RESEARCH TRIANGLE INSTITUTE	7,963 *
	Edwards AFB California	1,510		Melbourne Florida	758
	College Ohio	95		Raleigh N Carolina	255
	Dayton Ohio	12,411		Research Trian N Carolina	6,950
	Montgomery Ohio	249	204	NEW MEXICO STATE UNIVERSITY	7,692 *
	Uright Patters Ohio	2,714		Las Cruces New Mexico	1,987
122	UTAH STATE UNIVERSITY	17,532 *		White Sands Ms New Mexico	5,705
	Logan Utah	17,231	206	OREGON STATE UNIVERSITY	7,637 *
	Magna Utah	301		Corvallis Oregon	7,637
127	SOUTH CAROLINA RES AUTHORITY	16,161 *	207	SYRACUSE UNIVERSITY	7,513 *
	Charleston S Carolina	16,161		Syracuse New York	7,513
136	CORNELL UNIVERSITY	14,004 *	209	UNIVERSITY OF WISCONSIN SYSTEM	7,480 *
	Ithaca New York	13,256		Kenosha Wisconsin	114
	New York New York	582		Madison Wisconsin	7,069
	White Plains New York	166		Milwaukee Wisconsin	297
139	WOODS HOLE OCEANOGRAPHIC INSTN	13,423 *	219	SOUTHERN RESEARCH INSTITUTE	6,957 *
	Woods Hole Mass	13,423		Birmingham Alabama	6,957

- = Minus Amount (Cancellations Exceed New Awards)
S = Small Business

**Table 3. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Educational and Nonprofit Institutions: FY 1988**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
223	YALE UNIVERSITY New Haven Conn	6,858 * 6,858	274	NATIONAL ACADEMY SCIENCES USA San Diego California Washington D.C.	5,279 * 70 5,209
226	RENSSELAER POLYTECHNIC INST Chili Junction New York Troy New York	6,690 * 50 6,640	281	UNIVERSITY OF CENTRAL FLORIDA Orlando Florida	4,999 * 4,999
229	ENVIRON RSCH INST OF MICHIGAN Ann Arbor Michigan	6,601 * 6,601	286	VIRGINIA POLYTECHNICAL INST Blacksburg Virginia	4,842 * 4,842
231	BROWN UNIVERSITY Providence Rhode Isl	6,470 * 6,470	303	MERCER UNIVERSITY Macon Georgia Robins AFB Georgia	4,500 * 3,117 1,383
232	UNIVERSITY OF ROCHESTER Rochester New York	6,405 * 6,405	305	COLORADO STATE UNIVERSITY Fort Collins Colorado	4,444 * 4,444
233	UNIVERSITY OF PENNSYLVANIA New Canaan Conn Philadelphia Penn	6,402 * 49 6,353	309	UNIVERSITY OF MINNESOTA Duluth Minnesota Minneapolis Minnesota St. Paul Minnesota	4,325 * 379 821 3,125
237	SALK INST FOR BLGICAL STUDIES San Diego California Swiftwater Penn	6,254 * 557 5,697	310	AUBURN UNIVERSITY Auburn Alabama	4,318 * 4,318
240	TEXAS A & M UNIVERSITY Arlington Texas College Statio Texas San Antonio Texas	6,075 * 900 5,050 125	312	VANDERBILT UNIVERSITY THE Nashville Tennessee	4,176 * 4,176
244	PRINCETON UNIVERSITY Bayview Shores New Jersey Princeton New Jersey	5,948 * 30 5,918	321	UNIVERSITY OF FLORIDA Gainesville Florida Orlando Florida	4,059 * 4,021 33
245	UNIVERSITY OF NEW MEXICO Albuquerque New Mexico Kirtland AFB New Mexico Las Cruces New Mexico	5,923 * 1,867 3,946 110	327	UNIV CORP FOR ATMOSPHERIC RSC National Space Miss	3,859 * 3,859
246	HARVARD UNIVERSITY Cambridge Mass	5,919 * 5,919	328	OHIO STATE UNIVERSITY Atlanta Georgia Columbus Ohio Urbancrest Ohio	3,786 * 118 3,524 144
249	UNIVERSITY OF ALABAMA Birmingham Alabama Huntsville Alabama Tuscaloosa Alabama Tuskegee Alabama	5,858 * 830 4,491 445 92	331	SOUTHEASTN CTR ELECTR ENG ED Casa Bianco Florida Saint Cloud Florida Bedford Mass Buffalo New York	3,770 * 212 2,488 350 720
250	UNIVERSITY OF UTAH Salt Lake City Utah	5,852 * 5,852	334	NEW YORK UNIVERSITY Beacon New York New York New York	3,676 * 973 2,703
251	NORTH CAROLINA STATE UNIV Jubilee N Carolina Raleigh N Carolina	5,851 * 45 5,806	338	UNIVERSITY OF COLORADO Boulder Colorado Colorado Sprin Colorado Denver Colorado	3,508 * 2,894 146 468
256	UNIVERSITY OF ARIZONA Tempe Arizona Tucson Arizona	5,697 * 177 5,520	344	UNIVERSITY OF NORTH CAROLINA Chapel Hill N Carolina Charlotte N Carolina	3,379 * 3,297 82
264	BOSTON UNIVERSITY TRUSTEES OF Boston Mass	5,541 * 5,541	356	POLYTECHNIC UNIV OF NEW YORK Farmingdale New York New York New York	3,197 * 1,005 2,192
266	STATE UNIVERSITY OF NEW YORK Albany New York Binghamton New York Brookhaven New York Buffalo New York Old Westbury New York Stony Brook New York Syracuse New York Syracuse New York	5,524 * 2,283 92 100 1,929 140 537 120 323	360	UNIVERSITY OF RHODE ISLAND Kingston Rhode Isl Narragansett Rhode Isl Providence Rhode Isl	3,145 * 1,454 195 1,496
			362	UNIVERSITY OF VIRGINIA Pittsburgh Penn Charlottesville Virginia	3,129 * 52 3,077

- = Minus Amount (Cancellations Exceed New Awards)
S = Small Business

**Table 3. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Educational and Nonprofit Institutions: FY 1988**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
366	CASE WESTERN RESERVE UNIV Cleveland Ohio Wright Patters Ohio	3,035 * 2,763 272	484	CATHOLIC UNIVERSITY OF AMERICA Washington D.C.	1,881 * 1,881
368	NORTHWESTERN UNIVERSITY Evanston Illinois	3,007 * 3,007	487	SOUTHERN METHODIST UNIVERSITY Allenfarm Texas Dallas Texas	1,861 * 134 1,727
369	CLEMSON UNIVERSITY Clemson Univer S Carolina	3,001 * 3,001	489	AMERICAN SOC FOR ENGRG EDUCTN Washington D.C.	1,842 * 1,842
370	DUKE UNIVERSITY Apex N Carolina Beaufort N Carolina Duke Universit N Carolina Durham N Carolina	2,951 * 320 282 60 2,289	492	LOUISIANA STATE UNIVERSITY Baton Rouge Louisiana New Orleans Louisiana	1,837 * 773 1,064
382	UNIVERSITY OF TENNESSEE Knoxville Tennessee Memphis Tennessee Tullahoma Tennessee	2,760 * 1,881 140 739	495	RICE WILLIAM MARSH UNIVERSITY Houston Texas	1,820 * 1,820
389	STATE OF OKLAHOMA Eglin Air Forc Florida Battiest Oklahoma Stillwater Oklahoma	2,696 * 1,983 85 628		TOTAL	2,709,630
391	UNIVERSITY OF IOWA THE Iowa City Iowa	2,649 * 2,649			
401	UNIVERSITY OF CONNECTICUT Farmington Conn Storrs Conn	2,498 * 112 2,386			
408	ARIZONA STATE UNIVERSITY Tempe Arizona	2,447 * 2,447			
422	SYRACUSE RESEARCH CORP Syracuse New York	2,337 * 2,337			
424	UNIVERSITY OF PITTSBURGH Banian Junctio Penn Pittsburgh Penn	2,323 * 177 2,146			
430	RUTGERS THE STATE UNIVERSITY Barkers Corner New Jersey New Brunswick New Jersey Piscataway New Jersey	2,265 * 75 871 1,319			
434	UNIVERSITY OF CHICAGO THE Chicago Illinois	2,239 * 2,239			
436	DARTMOUTH COLLEGE Hanover N.H.	2,226 * 2,226			
439	NATIVE AMERICAN SERVICE ASSN Huntsville Alabama	2,205 * 2,205			
441	MICHIGAN DEPT OF PUBLIC HEALTH Lansing Michigan	2,196 * 2,196			
450	UNIVERSITY OF DELAWARE Newark Delaware	2,140 * 2,140			
452	NORTHEASTERN UNIVERSITY CORP Boston Mass	2,122 * 2,122			
453	GENERAL HOSPITAL CORPORATION Boston Mass	2,112 * 2,112			
464	UNIVERSITY OF HAWAII Honolulu Hawaii	2,044 * 2,044			

- = Minus Amount (Cancellations Exceed New Awards)
S = Small Business

**Table 4. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Foreign Contractors: FY 1988**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
89	MESSERSCHMITT-BOELKOW BLOHM GERMANY, F	27,197 * 27,197			
126	ISRAEL AIRCRAFT INDS INTL ISRAEL	16,480 * 16,480			
132	ROYAL NORWEGIAN NAVAL MATERIAL NORWAY	15,621 * 15,621			
150	CANADIAN COMMERCIAL CORPORATN CANADA	11,446 * 11,446			
159	MINISTRY OF DEFENSE UK UNITED KIN	10,680 * 10,680			
212	MARTIN-BAKER AIRCRAFT CO LTD UNITED KIN	7,360 * 7,360			
261	ANDREW ANTENNA GOVERNMENT PRO AUSTRALIA AUSTRIA	5,594 * 5,062 532			
279	ISREALI MINISTRY OF DEFENSE ISRAEL	5,000 * 5,000			
297	BOFORS A B SWEDEN	4,588 * 4,588			
306	ISRAEL AC IND ISRAEL	4,400 * 4,400			
316	COSYDE GIE FRANCE	4,123 * 4,123			
319	SNIA BPD ITALY	4,094 * 4,094			
345	UNITED KINGDOM MINISTRY OF DEF UNITED KIN	3,350 * 3,350			
385	UNITED KINGDOM AUTOMIC UNITED KIN	2,737 * 2,737			
397	HECKLER & KOCH INC GERMANY, F	2,514 * 2,514			
471	CANADIAN MARCONI COMPANY CANADA	1,987 * 1,987			
490	CONTRAVES ITALIANA SPA ITALY	1,842 * 1,842			
	TOTAL	129,013			

- = Minus Amount (Cancellations Exceed New Awards)
S = Small Business

**Table 5. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to U.S. Government Agencies: FY 1988**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
224	U S DEPARTMENT OF COMMERCE	6,837 *			
	Boulder Colorado	1,125			
	Washington D.C.	2,980			
	Gaithersburg Maryland	1,688			
	Rockville Maryland	523			
	Bay St. Louis Miss	145			
	Seattle Washington	376			
355	UNITED STATES DEPT ENERGY	3,215 *			
	Berkeley California	50			
	Oakland California	411			
	San Francisco California	50			
	Washington D.C.	50			
	Idaho Falls Idaho	170			
	Argonne Illinois	411			
	Syracuse New York	50			
	Upton New York	161			
	Oak Ridge Tennessee	200			
	Redmond Washington	590			
	Richland Washington	1,072			
457	NATIONAL SCIENCE FOUNDATION	2,090 *			
	Washington D.C.	2,090			
	TOTAL	12,142			

- = Minus Amount (Cancellations Exceed New Awards)
S = Small Business