

TABLE 77

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2022

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
United States	8,521,194	4,680,744	1,583,550	1,518,369	738,531	7,336,299	4,205,105	1,283,633	1,284,950	562,611
Alabama										
Public										
Alabama A&M U.	357	287	70	0	0	287	287	0	0	0
Alabama State U.	297	297	0	0	0	297	297	0	0	0
Auburn U., Auburn	9,752	5,514 i	1,959 i	620 i	1,659 i	9,389	5,186 i	1,924 i	620 i	1,659 i
Troy U.	117	117	0	0	0	117	117	0	0	0
U. Alabama, Birmingham	87,099	51,392	22,694	12,471	542	80,605	50,826	19,486	9,822	471
U. Alabama, Huntsville	5,154	4,143	538	323	150	4,974	4,113	538	323	0
U. Alabama, Tuscaloosa	7,181	3,892	2,983	227	79	6,891	3,691	2,955	187	58
U. South Alabama	4,677	3,742	235	140	560	3,570	2,862	235	140	333
Private										
Tuskegee U.	576	549	27	0	0	576	549	27	0	0
Alaska										
Public										
U. Alaska, Anchorage	1,482	0	NA	NA	1,482	1,482	0	0 i	0 i	1,482 i
U. Alaska, Fairbanks	33,881	19	NA	29	33,833 i	33,881	19	0 i	29 i	33,833 i
U. Alaska, Southeast	52	0	0	40	12	52	0	0	40	12
Private										
Alaska Pacific U.	0	0	0	0	0	0	0	0	0	0
Arizona										
Public										
Arizona State U.	66,972	33,140	15,250	14,282	4,300	58,744	29,559	13,974	11,900	3,311
Dine C.	601	601	0	0	0	601	601	0	0	0
Northern Arizona U.	6,310	1,896	924	1,610	1,880	6,305	1,896	924	1,610	1,875
U. Arizona	58,598	27,781	18,711	10,112	1,994	57,639	27,041	18,690	9,995	1,913
Private										
Sonoran U. Health Sciences	0	0	0	0	0	0	0	0	0	0
Arkansas										
Public										
Arkansas State U., Jonesboro	465	450	15	0	0	436	436	0	0	0
U. Arkansas for Medical Sciences	12,630	10,258	464	1,808	100	11,889	9,625	464	1,700	100
U. Arkansas, Fayetteville	10,331	8,296	568	361	1,106	9,023	7,714	435	339	535

TABLE 77

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State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
U. Arkansas, Little Rock	1,910	1,910	0	0	0	1,910	1,910	0	0	0
U. Arkansas, Pine Bluff	212	167	45	0	0	212	167	45	0	0
U. Central Arkansas	186	179	0	0	7	75	75	0	0	0
California										
Public										
California Polytechnic State U., San Luis Obispo	1,317	726	52	323	216	700	429	0	55	216
California State Polytechnic U., Humboldt	1,435	153	318	5	959	111	0	111	0	0
California State Polytechnic U., Pomona	472	472	0	0	0	417	417	0	0	0
California State U., Bakersfield	0	0	0	0	0	0	0	0	0	0
California State U., Channel Islands	115	115	0	0	0	101	101	0	0	0
California State U., Chico	752	600	119	33	0	722	570	119	33	0
California State U., Dominguez Hills	150	150	0	0	0	150	150	0	0	0
California State U., East Bay	5,072	243	0	2,182	2,647	4,571	107	0	2,182	2,282
California State U., Fresno	590	553	32	5	0	349	317	32	0	0
California State U., Fullerton	283	172	110	1	0	282	172	110	0	0
California State U., Long Beach	745	548	0	152	45	528	528	0	0	0
California State U., Los Angeles	326	247	0	79	0	273	194	0	79	0
California State U., Maritime Academy	22	22	0	0	0	0	0	0	0	0
California State U., Monterey Bay	1,280	1,280	0	0	0	673	673	0	0	0
California State U., Northridge	761	711	0	50	0	665	635	0	30	0
California State U., Sacramento	3,419	935	2,455	5	24	71	51	0	5	15
California State U., San Bernardino	526	526	0	0	0	156	156	0	0	0
California State U., San Marcos	555	514	0	41	0	541	500	0	41	0
California State U., Stanislaus	49	49	0	0	0	0	0	0	0	0
Naval Postgraduate School	1,194 i	1,194 i	0 i	0 i	0 i	1,194 i	1,194 i	0 i	0 i	0 i
San Diego State U.	5,956	3,546	200	1,493	717	5,132	3,156	200	1,255	521
San Francisco State U.	1,558	1,247	59	106	146	1,217	1,082	0	36	99
San Jose State U.	3,527	3,465	0	28	34	974	933	0	28	13
Sonoma State U.	723	231	33	459	0	723	231	33	459	0
U. California, Berkeley	82,865	46,816 i	15,622 i	10,939 i	9,488 i	64,337	36,617 i	12,192 i	8,606 i	6,922 i
U. California, Davis	52,099	29,640 i	9,876 i	6,969 i	5,614 i	51,877	29,524 i	9,832 i	6,939 i	5,582 i
U. California, Irvine	28,949	24,531 i	1,522 i	2,705 i	191 i	25,173	21,398 i	1,257 i	2,518 i	0 i
U. California, Los Angeles	196,118	107,303 i	38,369 i	26,827 i	23,619 i	148,407	84,467 i	28,125 i	19,856 i	15,959 i

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	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
U. California, Merced	1,775	490 i	174 i	122 i	989 i	887	490 i	174 i	122 i	101 i
U. California, Office of the President	25	0 i	0 i	0 i	25 i	0	0 i	0 i	0 i	0 i
U. California, Riverside	13,642	12,837 i	342 i	463 i	0 i	10,662	9,967 i	232 i	463 i	0 i
U. California, San Diego	126,465	70,675 i	24,126 i	16,873 i	14,791 i	95,158	54,158 i	18,033 i	12,729 i	10,238 i
U. California, San Francisco	145,634	80,539 i	28,097 i	19,633 i	17,365 i	106,666	60,708 i	20,214 i	14,269 i	11,475 i
U. California, Santa Barbara	25,474	19,070 i	2,192 i	798 i	3,414 i	17,937	14,549 i	2,192 i	798 i	398 i
U. California, Santa Cruz	14,816	10,667 i	2,473 i	1,676 i	0 i	12,998	9,086 i	2,236 i	1,676 i	0 i
Private										
Azusa Pacific U.	0	0	0	0	0	0	0	0	0	0
Biola U.	120 i	62 i	18 i	31 i	9 i	0	0	0	0	0
California Institute of Technology	64,169	40,688	17,892	2,369	3,220	54,927	35,371	15,578	2,197	1,781
California Lutheran U.	0	0	0	0	0	0	0	0	0	0
Chapman U.	3,888	3,810	0	78	0	2,578	2,500	0	78	0
Charles R. Drew U. of Medicine and Science	1,098	0	0	1,098	0	1,098	0	0	1,098	0
Claremont Graduate U.	304	304	0	0	0	11	11	0	0	0
Claremont McKenna C.	300	300	0	0	0	300	300	0	0	0
Harvey Mudd C.	46	46	0	0	0	46	46	0	0	0
High Tech High Graduate School of Ed.	113	113	0	0	0	0	0	0	0	0
Keck Graduate Institute	6	6	0	0	0	6	6	0	0	0
La Sierra U.	0	0	0	0	0	0	0	0	0	0
Loma Linda U.	1,116	808	174	112	22	778	643	1	112	22
Loyola Marymount U.	332	310	0	22	0	270	270	0	0	0
Marshall B. Ketchum U.	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Occidental C.	133 i	117 i	0 i	0 i	16 i	117 i	117 i	0 i	0 i	0 i
Pepperdine U.	260	159	0	101	0	24	24	0	0	0
Pomona C.	11	11	0	0	0	11	11	0	0	0
Santa Clara U.	147	57	0	90	0	147	57	0	90	0
Scripps Research Institute	58,159	15,920	14,390	26,409	1,440	57,362	15,123	14,390	26,409	1,440
Stanford U.	97,533	62,587	6,138	17,823	10,985	81,595	53,454	4,731	15,256	8,154
Touro U., California	10	10	0	0	0	10	10	0	0	0
U. of the Pacific	22	18	4	0	0	22	18	4	0	0
U. San Diego	1,679	1,250	47	360	22	1,329	1,114	0	215	0
U. San Francisco	27	27	0	0	0	24	24	0	0	0

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Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2022

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	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
U. Southern California	150,298	91,990	19,903	36,352	2,053	114,922	75,554	11,772	25,908	1,688
Western U. of Health Sciences	789	411	301	0	77	789	411	301	0	77
Colorado										
Public										
Colorado School of Mines	8,248	5,747	1,846	422	233	7,814	5,370	1,826	400	218
Colorado State U., Fort Collins	25,024	17,241	3,174	1,807	2,802	22,190	15,469	2,852	1,515	2,354
Colorado State U., Pueblo	84	84	0	0	0	84	84	0	0	0
Fort Lewis C.	336	336	0	0	0	336	336	0	0	0
U. Colorado Anschutz Medical Campus ^a	58,673	33,197	6,156	12,824	6,496	47,983	29,741	4,788	10,569	2,885
U. Colorado Boulder	80,995	35,087	38,561	3,858	3,489	75,375	32,399	37,282	2,934	2,760
U. Colorado Colorado Springs	863	825	24	14	0	840	802	24	14	0
U. Colorado Denver ^a	490	343	84	3	60	398	340	55	3	0
U. Northern Colorado	184	161	23	0	0	184	161	23	0	0
U.S. Air Force Academy	0	0	0	0	0	0	0	0	0	0
Private										
Colorado C.	0	0	0	0	0	0	0	0	0	0
U. Denver	5,010	2,537	179	2,294	0	4,355	2,334	48	1,973	0
Connecticut										
Public										
Central Connecticut State U.	0	0	0	0	0	0	0	0	0	0
Eastern Connecticut State U.	0	0	0	0	0	0	0	0	0	0
Southern Connecticut State U.	109	85	24	0	0	109	85	24	0	0
U. Connecticut	47,719	41,049	3,324	2,825	521	45,948	39,793	3,093	2,590	472
Private										
Connecticut C.	43	43	0	0	0	43	43	0	0	0
Trinity C., Hartford	458	458	0	0	0	458	458	0	0	0
U. Hartford	496	487	6	0	3	490	487	0	0	3
U. New Haven	321	97	0	224	0	276	52	0	224	0
Wesleyan U.	247	247	0	0	0	73	73	0	0	0
Yale U.	87,507	47,369	2,703	30,731	6,704	82,378	45,462	2,442	28,463	6,011
Delaware										
Public										
Delaware State U.	2,982	2,982	0	0	0	2,982	2,982	0	0	0

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U. Delaware	37,600	23,478	11,828	704	1,590	30,619	19,774	9,696	559	590
District of Columbia										
Public										
National Defense U.	0	0	0	0	0	0	0	0	0	0
U. of the District of Columbia	0	0	0	0	0	0	0	0	0	0
Private										
American U.	2,375	1,218	299	806	52	1,540	854	299	387	0
Catholic U. of America	4,233	3,488	353	392	0	4,233	3,488	353	392	0
Gallaudet U.	1,141	475	317	315	34	1,061	475	237	315	34
George Washington U.	49,270	31,921	3,547	11,427	2,375	45,562	30,645	2,777	10,042	2,098
Georgetown U.	23,198	9,310	3,076	6,294	4,518	15,334	6,864	2,265	3,897	2,308
Howard U.	2,727	2,004	262	461	0	1,888	1,609	85	194	0
Florida										
Public										
Florida A&M U.	5,164	4,679	218	170	97	4,929	4,679	74	170	6
Florida Atlantic U.	2,872	2,843	0	29	0	2,364	2,335	0	29	0
Florida Gulf Coast U.	1,552	605	471	33	443	1,311	542	351	18	400
Florida International U.	15,301	10,251	1,767	2,031	1,252	13,339	9,373	1,667	1,100	1,199
Florida Polytechnic U.	92	92	0	0	0	89	89	0	0	0
Florida State U.	29,434	14,787	2,877	5,494	6,276	28,828	14,317	2,877	5,402	6,232
U. Central Florida	22,256	10,006	8,800	2,557	893	18,321	8,798	8,359	429	735
U. Florida	63,926	45,237	3,800	12,325	2,564	56,302	40,056	3,652	10,356	2,238
U. North Florida	30	17	0	13	0	30	17	0	13	0
U. South Florida ^b	48,925	25,360	7,922	8,193	7,450	46,872	24,933	7,647	7,882	6,410
U. West Florida	10,035	10,024	11	0	0	9,235	9,224	11	0	0
Private										
Embry-Riddle Aeronautical U.	10,612	4,507	5,955	0	150	10,602	4,497	5,955	0	150
Florida Institute of Technology	1,957	1,529	361	64	3	1,403	1,145	255	0	3
Nova Southeastern U.	2,250	703	986	505	56	1,170	486	164	479	41
U. Miami	45,352	33,813	3,569	7,923	47	43,476	32,364	3,181	7,884	47
Georgia										
Public										
Augusta U.	7,183	5,547	136	1,484	16	7,183	5,547	136	1,484	16

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	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Fort Valley State U.	82	82	0	0	0	76	76	0	0	0
Georgia Institute of Technology	181,846	38,543	136,510	2,870	3,923	170,201	36,104	129,761	2,304	2,032
Georgia Southern U.	48	39	0	9	0	44	35	0	9	0
Georgia State U.	17,784	9,287	1,256	4,539	2,702	14,561	8,660	529	3,120	2,252
Kennesaw State U.	202	202	0	0	0	202	202	0	0	0
Savannah State U.	109	109	0	0	0	109	109	0	0	0
U. Georgia	34,097	26,781	981	4,196	2,139	32,854	25,955	808	4,184	1,907
U. North Georgia	0	0	0	0	0	0	0	0	0	0
Private										
Clark Atlanta U.	216	204	0	12	0	204	204	0	0	0
Emory U.	123,587	54,729	17,728	42,012	9,118	94,819	50,833	6,218	33,170	4,598
Mercer U.	1,967	21	1,929	0	17	1,786	21	1,748	0	17
Morehouse C.	974	974	0	0	0	974	974	0	0	0
Morehouse School of Medicine	4,266	2,544	0	1,722	0	3,775	2,053	0	1,722	0
Spelman C.	65	65	0	0	0	65	65	0	0	0
Hawaii										
Public										
U. Hawaii, Hilo	102	34	5	21	42	102	34	5	21	42
U. Hawaii, Manoa	12,748	5,315	3,998	2,948	487	12,038	5,072	3,842	2,792	332
U. Hawaii, system office	131	0	0	131	0	131	0	0	131	0
Private										
Hawaii Pacific U.	57	57	0	0	0	57	57	0	0	0
Idaho										
Public										
Boise State U.	2,106	1,871	45	137	53	1,987	1,778	45	135	29
Idaho State U.	495	370	0	14	111	495	370	0	14	111
U. Idaho	9,271	8,400	256	313	302	8,761	7,938	256	313	254
Illinois										
Public										
Chicago State U.	314	314	0	0	0	314	314	0	0	0
Illinois State U.	3,804	1,458	197	849	1,300	3,732	1,458	125	849	1,300
Northeastern Illinois U.	65	65	0	0	0	65	65	0	0	0
Northern Illinois U.	545	494	43	0	8	514	463	43	0	8

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Southern Illinois U., Carbondale	1,089	495	0	0	594	374	125	0	0	249
Southern Illinois U., Edwardsville	192	3	0	0	189	189	0	0	0	189
U. Illinois, Chicago	27,061	16,596	3,016	4,308	3,141	20,685	14,238	1,259	3,464	1,724
U. Illinois, Springfield	222	0	0	0	222	0	0	0	0	0
U. Illinois, Urbana-Champaign	90,557	53,022	24,759	6,495	6,281	82,990	52,150	23,550	4,743	2,547
Western Illinois U.	1,630	1,224	183	121	102	1,630	1,224	183	121	102
Private										
DePaul U.	1,274	896	12	366	0	298	62	12	224	0
Erikson Institute	0	0	0	0	0	0	0	0	0	0
Illinois Institute of Technology	3,622	2,502	488	632	0	3,622	2,502	488	632	0
Loyola U., Chicago	3,040	2,237	59	26	718	2,700	1,914	57	26	703
Midwestern U.	47	21	0	5	21	47	21	0	5	21
Northwestern U.	93,707	1,458	2,898	89,351	0	86,626	697	0	85,929	0
Rosalind Franklin U. of Medicine and Science	426	129	23	235	39	426	129	23	235	39
Rush U.	15,261	9,901	466	4,362	532	13,559	8,944	387	3,706	522
Toyota Technological Institute, Chicago	157	157	0	0	0	157	157	0	0	0
U. Chicago	80,617	48,324	509	26,276	5,508	74,951	46,970	419	25,470	2,092
Indiana										
Public										
Ball State U.	2,090	1,482	0	608	0	1,963	1,355	0	608	0
Indiana State U.	84	84	0	0	0	57	57	0	0	0
Indiana U., Bloomington	61,589	35,603	3,122	17,088	5,776	57,327	33,222	2,879	15,965	5,261
Indiana U.-Purdue U., Indianapolis	3,204	1,827	77	1,267	33	2,533	1,658	77	765	33
Purdue U., Fort Wayne	0	0	0	0	0	0	0	0	0	0
Purdue U., Northwest	108	75	33	0	0	108	75	33	0	0
Purdue U., West Lafayette	60,396	43,243	6,364	4,391	6,398	52,291	36,330	5,728	4,295	5,938
Private										
Butler U.	0	0	0	0	0	0	0	0	0	0
U. Notre Dame	30,184	18,145	558	6,734	4,747	21,708	15,890	448	3,855	1,515
Iowa										
Public										
Iowa State U.	20,390	14,534	4,478	1,076	302	16,226	12,453	2,672	911	190
U. Iowa	58,365	55,447	0	0	2,918	56,208	53,398	0	0	2,810

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U. Northern Iowa	271	271	0	0	0	271	271	0	0	0
Private										
Des Moines U.	52	52	0	0	0	52	52	0	0	0
Drake U.	59	0	0	59	0	59	0	0	59	0
Grinnell C.	13	13	0	0	0	8	8	0	0	0
Palmer C. of Chiropractic, Davenport	950	950	0	0	0	950	950	0	0	0
Kansas										
Public										
Kansas State U.	9,635	7,335	200	447	1,653	8,751	6,972	166	322	1,291
Pittsburg State U.	0	0	0	0	0	0	0	0	0	0
U. Kansas	25,760	17,632	3,627	1,678	2,823	23,403	16,811	2,291	1,560	2,741
Wichita State U.	14,986	8,439	603	5,944	0	9,897	3,350	603	5,944	0
Kentucky										
Public										
Kentucky State U.	260	225	11	24	0	260	225	11	24	0
Morehead State U.	0	0	0	0	0	0	0	0	0	0
Murray State U.	449	142	0	307	0	449	142	0	307	0
Northern Kentucky U.	125	9	0	116	0	125	9	0	116	0
U. Kentucky	24,170	18,727	1,979	2,996	468	21,325	16,816	1,137	2,904	468
U. Louisville	9,067	5,512	1,425	1,307	823	7,801	4,891	1,152	1,084	674
Western Kentucky U.	0	0	0	0	0	0	0	0	0	0
Louisiana										
Public										
Grambling State U.	23	23	0	0	0	23	23	0	0	0
Louisiana State U., Baton Rouge	15,206	13,926	180	976	124	14,259	13,040	167	928	124
Louisiana State U., Health Sciences Center, New Orleans	5,309	1,715	0	2,215	1,379	4,538	1,556	0	1,603	1,379
Louisiana State U., Health Sciences Center, Shreveport	374	374	0	0	0	251	251	0	0	0
Louisiana Tech U.	83	78	5	0	0	71	71	0	0	0
Northwestern State U. Louisiana	0	0	0	0	0	0	0	0	0	0
Southeastern Louisiana U.	24	24	0	0	0	24	24	0	0	0
Southern U. and A&M C., Agricultural Research and Extension Center	375	375	0	0	0	375	375	0	0	0
Southern U. and A&M C., Baton Rouge	102	0	70	5	27	102	0	70	5	27
U. Louisiana, Lafayette	5,823	4,113	1,710	0	0	5,555	3,845	1,710	0	0

TABLE 77

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2022

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
U. Massachusetts, Amherst	13,795	7,872	850	2,921	2,152	9,550	6,580	448	1,876	646
U. Massachusetts, Boston	7,047	3,698	877	2,222	250	2,269	1,329	118	630	192
U. Massachusetts, Dartmouth	378	139	81	138	20	314	139	17	138	20
U. Massachusetts, Lowell	7,558	3,422	1,462	2,626	48	6,572	3,101	1,024	2,426	21
U. Massachusetts, Medical School	42,059	26,896	3,675	9,842	1,646	40,175	26,678	3,643	9,365	489
Private										
Amherst C.	264	264	0	0	0	264	264	0	0	0
Babson C.	NA	NA	NA	NA	NA	0	0	0	0	0
Bentley U.	158	158	0	0	0	158	158	0	0	0
Boston C.	6,882	2,112	49	2,513	2,208	4,219	1,694	0	1,995	530
Boston U.	171,916	44,596	106,443	20,528	349	102,687	37,004	48,320	17,053	310
Brandeis U.	4,802	3,354	101	982	365	3,567	2,699	101	694	73
Clark U.	259	228	31	0	0	259	228	31	0	0
Franklin W. Olin C. of Engineering	173	76	0	97	0	76	76	0	0	0
Harvard U.	168,324	60,541	5,677	34,439	67,667	129,735	48,878	5,505	27,614	47,738
Massachusetts Institute of Technology	15,441	1,428	12,578	1,225	210	14,568	1,426	12,379	553	210
MGH Institute of Health Professions	544	544	0	0	0	544	544	0	0	0
Mount Holyoke C.	4	0	0	4	0	4	0	0	4	0
New England C. of Optometry	406	406	0	0	0	406	406	0	0	0
Northeastern U.	29,937	13,456	4,932	10,973	576	28,524	13,095	4,896	10,107	426
Smith C.	111	106	0	5	0	111	106	0	5	0
Suffolk U.	230	120	0	110	0	191	81	0	110	0
Tufts U.	32,664	224	55	2,146	30,239	27,249	224	0	0	27,025
Wellesley C.	144	144	0	0	0	131	131	0	0	0
Western New England U.	655	69	504	82	0	151	69	0	82	0
Williams C.	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Woods Hole Oceanographic Institution	34,103	28,871	1,568	1,845	1,819	33,530	28,393	1,568	1,827	1,742
Worcester Polytechnic Institute	7,869	3,355	2,206	2,023	285	5,658	3,259	556	1,558	285
Michigan										
Public										
Central Michigan U.	3,675	3,280	0	0	395	3,646	3,256	0	0	390
Eastern Michigan U.	685	641	0	44	0	663	627	0	36	0
Grand Valley State U.	95	77	18	NA	NA	95	77	18	0	0

TABLE 77

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2022

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Alcorn State U.	538 i	538 i	0 i	0 i	0 i	538 i	538 i	0 i	0 i	0 i
Jackson State U.	1,285	1,178	107	0	0	1,285	1,178	107	0	0
Mississippi State U.	30,590	16,471	4,653	3,335	6,131	29,229	16,148	4,623	2,340	6,118
U. Mississippi	6,443	5,354	208	689	192	6,248	5,354	37	665	192
U. Southern Mississippi	10,608	8,842	1,198	285	283	10,422	8,656	1,198	285	283
Private										
Tougaloo C.	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Missouri										
Public										
Lincoln U., Jefferson City	244	244	0	0	0	244	244	0	0	0
Missouri State U.	5,811	73	5,718	20	0	5,776	73	5,703	0	0
Missouri U. of Science and Technology	2,942	1,894	917	84	47	2,885	1,894	879	84	28
U. Missouri, Columbia	23,265	15,467	1,237	3,482	3,079	18,291	11,257	1,001	3,058	2,975
U. Missouri, Kansas City	2,175	460	232	1,377	106	2,035	397	232	1,300	106
U. Missouri, Saint Louis	1,135	541	8	317	269	736	481	8	247	0
Private										
Saint Louis U.	6,701	6,182	63	293	163	6,399	5,963	63	212	161
U. of Health Sciences and Pharmacy in St. Louis	1,014	1,014	0	0	0	857	857	0	0	0
Washington U., Saint Louis	77,830	49,069	2,589	15,421	10,751	67,486	44,242	2,083	14,390	6,771
Montana										
Public										
Montana State U., Bozeman	18,287	11,408	1,614	3,094	2,171	17,568	11,023	1,594	3,094	1,857
Montana Technological U.	430	430	0	0	0	418	418	0	0	0
U. Montana, Missoula	11,578	7,705	3,270	434	169	11,186	7,688	2,993	388	117
Nebraska										
Public										
U. Nebraska, central administration	10,405	8,649	1,647	0	109	10,405	8,649	1,647	0	109
U. Nebraska, Kearney	128	42	75	0	11	128	42	75	0	11
U. Nebraska, Lincoln	11,688	10,050	346	600	692	10,615	9,677	154	487	297
U. Nebraska, Medical Center	13,809	11,158	937	1,148	566	12,952	10,916	917	1,119	0
U. Nebraska, Omaha	4,719	3,113	780	560	266	4,700	3,094	780	560	266
Private										
Creighton U.	1,185 i	776 i	184 i	225 i	0 i	1,185 i	776 i	184 i	225 i	0 i

TABLE 77

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2022

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed														
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients										
New Mexico Highlands U.	0	i	0	i	0	i	0	i	0	i	0	i	0	i						
New Mexico Institute of Mining and Technology	5,422		2,572		2,375		0		475		5,362		2,512		2,375		0		475	
New Mexico State U.	11,494		4,651		4,980		965		898		11,236		4,557		4,852		965		862	
U. New Mexico	61,099		31,090		12,894		12,167		4,948		58,179		30,603		12,894		11,787		2,895	
New York																				
Public																				
CUNY, Advanced Science Research Center	2,433		1,864		100		189		280		2,433		1,864		100		189		280	
CUNY, Baruch C.	98		50		0		48		0		0		0		0		0		0	
CUNY, Brooklyn C.	161		156		0		5		0		156		156		0		0		0	
CUNY, C. Staten Island	334		141		0		191		2		334		141		0		191		2	
CUNY, City C.	6,450		4,042		967		1,437		4		5,014		3,968		26		1,016		4	
CUNY, Graduate Center	344		344		0		0		0		300		300		0		0		0	
CUNY, Graduate School of Public Health and Health Policy	1,324		594		223		507		0		1,287		573		223		491		0	
CUNY, Hunter C.	3,041		1,246		305		1,464		26		2,772		1,246		41		1,464		21	
CUNY, John Jay C. of Criminal Justice	1,985		714		1,082		94		95		1,718		505		1,082		36		95	
CUNY, Lehman C.	154		154		0		0		0		154		154		0		0		0	
CUNY, New York City C. of Technology	320		320		0		0		0		320		320		0		0		0	
CUNY, Queens C.	1,920		597		952		371		0		1,920		597		952		371		0	
CUNY, system office	383		383		0		0		0		383		383		0		0		0	
CUNY, York C.	81		0		0		81		0		81		0		0		81		0	
SUNY, Binghamton U.	4,673		1,248		2,672		379		374		3,413		1,236		1,450		353		374	
SUNY, Buffalo State	73		73		0		0		0		73		73		0		0		0	
SUNY, C. Brockport	2		0		0		0		2		0		0		0		0		0	
SUNY, C. of Environmental Science and Forestry	589		448		92		30		19		248		158		58		30		2	
SUNY, C. of Optometry	10		10		0		0		0		10		10		0		0		0	
SUNY, C. Plattsburgh	19		19		0		0		0		7		7		0		0		0	
SUNY, Cobleskill	335		0		108		227		0		0		0		0		0		0	
SUNY, Downstate Health Sciences U.	8,577		7,464		287		231		595		8,346		7,277		287		187		595	
SUNY, Geneseo	38		38		0		0		0		38		38		0		0		0	
SUNY, Oswego	0		0		0		0		0		0		0		0		0		0	
SUNY, Polytechnic Institute	24,401		18,341		5,954		106		0		10,103		4,176		5,927		0		0	
SUNY, Stony Brook U.	32,312		28,999		872		1,682		759		31,469		28,277		831		1,602		759	
SUNY, U. Albany	10,103		5,880		1,489		2,362		372		8,935		5,636		1,431		1,512		356	

TABLE 77

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2022

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
SUNY, U. Buffalo	20,378	9,640	3,379	7,359	0	15,475	9,224	1,149	5,102	0
SUNY, Upstate Medical U.	1,939	1,532	154	253	0	1,784	1,519	154	111	0
U.S. Military Academy	1,850	1,815	16	19	0	1,608	1,608	0	0	0
Private										
Albany C. of Pharmacy and Health Sciences	139	0	0	0	139	139	0	0	0	139
Albany Medical C.	705	337	0	368	0	705	337	0	368	0
Albert Einstein C. of Medicine	35,520	32,732	156	2,632	0	32,732	32,732	0	0	0
Alfred U.	42	42	0	0	0	42	42	0	0	0
Barnard C.	1,030	1,030	0	0	0	1,030	1,030	0	0	0
Canisius C.	0	0	0	0	0	0	0	0	0	0
Clarkson U.	1,126	217	128	597	184	995	203	128	555	109
Cold Spring Harbor Laboratory	9,461 i	5,620 i	1,873 i	1,847 i	121 i	8,628 i	5,620 i	1,299 i	1,606 i	103 i
Colgate U.	254	254	0	0	0	254	254	0	0	0
Columbia U. in the City of New York	128,406	64,318	3,109	45,212	15,767	120,636	61,976	2,824	44,461	11,375
Cornell U.	106,417	69,040	7,722	16,301	13,354	89,910	61,664	6,599	13,514	8,133
Fordham U.	970	970	0	0	0	970	970	0	0	0
Hamilton C.	84	79	0	5	0	43	43	0	0	0
Hobart and William Smith Colleges	49	16	0	33	0	12	0	0	12	0
Hofstra U.	140	24	0	66	50	24	24	0	0	0
Icahn School of Medicine at Mount Sinai	110,579	52,800	24,134	24,276	9,369	106,715	50,915	24,118	22,539	9,143
Ithaca C.	28	20	0	8	0	28	20	0	8	0
Long Island U.	532	310	0	222	0	532	310	0	222	0
Manhattan C.	26	26	0	0	0	0	0	0	0	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	0	0	0	0	0	0	0	0	0	0
New School	1,689	78	0	1,611	0	8	8	0	0	0
New York Institute of Technology	423	423	0	0	0	423	423	0	0	0
New York Medical C.	464	457	7	0	0	457	457	0	0	0
New York U.	175,515	121,268	2,885	44,157	7,205	163,519	114,804	2,582	40,503	5,630
Pace U.	857	617	0	240	0	857	617	0	240	0
Pratt Institute	0	0	0	0	0	0	0	0	0	0
Rensselaer Polytechnic Institute	7,041	4,572	756	1,396	317	6,719	4,296	730	1,396	297
Rochester Institute of Technology	2,210	1,515	256	403	36	2,097	1,444	249	368	36

TABLE 77

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2022

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Public										
North Dakota State U.	8,142	7,369	773	0	0	6,626	5,901	725	0	0
U. North Dakota	21,702	4,578	15,600	1,238	286	11,188	4,466	5,247	1,225	250
Ohio										
Public										
Air Force Institute of Technology	0	0	0	0	0	0	0	0	0	0
Bowling Green State U.	1,132	1,075	46	6	5	1,095	1,044	46	0	5
Central State U.	213	204	0	8	1	205	204	0	0	1
Cleveland State U.	5,589	4,429	659	501	0	5,070	4,225	484	361	0
Kent State U.	2,717	1,307	123	1,238	49	2,129	821	99	1,160	49
Miami U.	839	573	222	34	10	548	481	38	29	0
Northeast Ohio Medical U.	143	141	0	0	2	141	141	0	0	0
Ohio State U.	97,418	62,491	4,891	24,020	6,016	73,818	47,907	3,611	16,847	5,453
Ohio U.	2,278	1,520	683	14	61	2,000	1,501	474	14	11
U. Akron	967	736	231	0	0	930	699	231	0	0
U. Cincinnati	31,648	14,103	1,814	15,496	235	28,540	12,878	1,736	13,713	213
U. Toledo	2,215	1,982	179	12	42	2,098	1,906	149	12	31
Wright State U.	5,290	4,484	77	422	307	5,254	4,463	62	422	307
Youngstown State U.	86	65	21	0	0	86	65	21	0	0
Private										
C. Wooster	0	0	0	0	0	0	0	0	0	0
Case Western Reserve U.	48,871	38,782	1,636	5,689	2,764	43,175	36,111	1,606	4,003	1,455
Heidelberg U.	0	0	0	0	0	0	0	0	0	0
Kenyon C.	15	15	0	0	0	15	15	0	0	0
U. Dayton	46,655	6,108	39,693	813	41	46,655	6,108	39,693	813	41
Oklahoma										
Public										
Langston U.	202	149	0	0	53	172	128	0	0	44
Oklahoma State U., Center for Health Sciences	208	170	0	0	38	208	170	0	0	38
Oklahoma State U., Stillwater	8,129	6,918	697	266	248	7,387	6,352	571	266	198
U. Central Oklahoma	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
U. Oklahoma, Norman and Health Science Center	55,225	15,577	32,296	6,033	1,319	52,662	13,825	31,659	5,859	1,319
U. Oklahoma, Tulsa	35	35	0	0	0	3	3	0	0	0

TABLE 77

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2022

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Public										
Black Hills State U.	0	0	0	0	0	0	0	0	0	0
Dakota State U.	684	667	17	0	0	684	667	17	0	0
South Dakota School of Mines and Technology	2,812	2,756	0	49	7	2,524	2,468	0	49	7
South Dakota State U.	2,322	1,956	87	66	213	2,096	1,732	87	65	212
U. South Dakota	3,675	2,544	92	1,039	0	3,500	2,544	92	864	0
Private										
Augustana U.	0	0	0	0	0	0	0	0	0	0
Tennessee										
Public										
Austin Peay State U.	1	1	0	0	0	1	1	0	0	0
East Tennessee State U.	673	673	0	0	0	584	584	0	0	0
Middle Tennessee State U.	465	430	35	0	0	465	430	35	0	0
Tennessee State U.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tennessee Technological U.	369	269	47	17	36	369	269	47	17	36
U. Memphis	3,708	2,213	498	829	168	2,910	2,005	430	308	167
U. Tennessee, Chattanooga	373	373	0	0	0	373	373	0	0	0
U. Tennessee, Health Science Center	8,539	7,233	455	321	530	8,140	7,108	455	321	256
U. Tennessee, Knoxville	10,790	8,148	1,155	831	656	10,315	7,812	1,100	776	627
Private										
Fisk U.	182	182	0	0	0	182	182	0	0	0
Meharry Medical C.	1,213	561	0	652	0	1,213	561	0	652	0
Vanderbilt U. and Vanderbilt U. Medical Center	136,861	99,029	6,760	27,947	3,125	132,387	96,042	6,562	26,757	3,026
Texas										
Public										
Lamar U.	103	63	0	0	40	0	0	0	0	0
Prairie View A&M U.	1,305	1,295	0	0	10	1,239	1,239	0	0	0
Sam Houston State U.	491	481	0	0	10	478	468	0	0	10
Stephen F. Austin State U.	17	17	0	0	0	17	17	0	0	0
Sul Ross State U.	0	0	0	0	0	0	0	0	0	0
Tarleton State U.	549	0	4	0	545	437	0	0	0	437
Texas A&M International U.	38	38	0	0	0	38	38	0	0	0
Texas A&M U., College Station and Health Science Center	101,870	40,911	50,408	3,517	7,034	81,829	37,141	35,614	3,289	5,785

TABLE 77

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2022

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Texas A&M U.-Commerce	150	150	0	0	0	150	150	0	0	0
Texas A&M U.-Corpus Christi	3,358	861	2,476	17	4	1,952	529	1,406	13	4
Texas A&M U.-Kingsville	348	348	0	0	0	323	323	0	0	0
Texas A&M U.-San Antonio	0	0	0	0	0	0	0	0	0	0
Texas Southern U.	1,070	635	0	208	227	635	635	0	0	0
Texas State U.	4,675	2,280	1,892	234	269	4,201	2,257	1,532	209	203
Texas Tech U.	5,976	4,374	1,461	12	129	3,857	2,256	1,461	11	129
Texas Tech U., Health Sciences Center	1,797	1,528	269	0	0	1,499	1,460	39	0	0
Texas Tech U., Health Sciences Center, El Paso	458	0	0	85	373	160	0	0	85	75
Texas Woman's U.	0	0	0	0	0	0	0	0	0	0
U. Houston	11,678	9,107	1,362	894	315	10,597	8,452	1,362	691	92
U. Houston-Clear Lake	0	0	0	0	0	0	0	0	0	0
U. Houston-Downtown	126	126	0	0	0	126	126	0	0	0
U. North Texas, Denton	3,216	2,537	619	60	0	2,523	2,408	55	60	0
U. North Texas, Health Science Center	763 i	635 i	7 i	102 i	19 i	746 i	618 i	7 i	102 i	19 i
U. Texas Health Science Center, Houston	21,506	17,579	270	2,948	709	19,723	16,048	111	2,869	695
U. Texas Health Science Center, San Antonio	18,786	15,637	134	2,198	817	17,007	14,791	87	1,312	817
U. Texas Health Science Center, Tyler	758	0	0	0	758	758	0	0	0	758
U. Texas M. D. Anderson Cancer Center	31,113	19,764	686	9,329	1,334	22,574	14,138	657	6,862	917
U. Texas Medical Branch	19,449	10,481	3,208	1,224	4,536	18,563	9,595	3,208	1,224	4,536
U. Texas of the Permian Basin	0	0	0	0	0	0	0	0	0	0
U. Texas Rio Grande Valley	2,212	1,911	4	24	273	2,212	1,911	4	24	273
U. Texas Southwestern Medical Center	33,986	17,492	2,273	9,403	4,818	31,525	17,332	2,273	8,319	3,601
U. Texas, Arlington	8,940	6,741	148	2,000	51	8,623	6,424	148	2,000	51
U. Texas, Austin	61,710	40,211	11,544	9,184	771	60,909	39,806	11,410	8,934	759
U. Texas, Dallas	2,612	143	0	0	2,469	2,300	143	0	0	2,157
U. Texas, El Paso	6,602	4,535	108	1,171	788	6,062	4,365	108	806	783
U. Texas, San Antonio	11,849	10,164	601	972	112	10,146	8,929	566	651	0
U. Texas, Tyler	58	51	0	7	0	58	51	0	7	0
West Texas A&M U.	27	27	0	0	0	27	27	0	0	0
Private										
Abilene Christian U.	0	0	0	0	0	0	0	0	0	0
Baylor C. of Medicine	56,985	50,898	1,846	3,865	376	51,608	47,371	1,578	2,659	0

TABLE 77

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2022

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Baylor U.	2,574	1,454	208	855	57	2,149	1,377	0	756	16
Rice U.	28,815	15,372	5,492	1,712	6,239	16,001	12,973	1,060	1,702	266
Southern Methodist U.	1,366	1,120	45	46	155	1,366	1,120	45	46	155
St. Edward's U.	50	50	0	0	0	50	50	0	0	0
Texas Christian U.	662	497	165	0	0	662	497	165	0	0
Trinity U.	171	58	0	113	0	171	58	0	113	0
U. of the Incarnate Word	0	0	0	0	0	0	0	0	0	0
Utah										
Public										
U. Utah	53,345	2,618	1,039	3,529	46,159	47,996	1,610	5	332	46,049
Utah State U.	38,767	9,957	28,352	129	329	38,641	9,865	28,318	129	329
Utah Valley U.	80	80	0	0	0	74	74	0	0	0
Private										
Brigham Young U., Provo	3,881	2,578	1,030	68	205	3,808	2,558	1,023	68	159
Vermont										
Public										
U. Vermont	17,971	14,486	431	2,635	419	17,205	14,395	414	1,977	419
Private										
Middlebury C.	149	149	0	0	0	149	149	0	0	0
Virginia										
Public										
Christopher Newport U.	394	0	0	362	32	325	0	0	293	32
Eastern Virginia Medical School	2,898	2,898	0	0	0	2,828	2,828	0	0	0
George Mason U.	48,001	7,608	38,033	1,199	1,161	46,487	6,656	37,937	1,141	753
James Madison U.	28	28	NA	NA	NA	28	28	0	0	0
Norfolk State U.	331	331	0	0	0	331	331	0	0	0
Old Dominion U.	3,710	1,816	794	959	141	2,147	1,251	676	79	141
U. of Mary Washington	0	0	0	0	0	0	0	0	0	0
U. Virginia's C. Wise	34	0	0	34	0	0	0	0	0	0
U. Virginia, Charlottesville	41,306	27,532	2,848	6,643	4,283	36,040	26,336	2,176	5,240	2,288
Virginia Commonwealth U.	21,025	16,199	2,192	986	1,648	16,264	12,643	1,112	910	1,599
Virginia Military Institute	55	55	0	0	0	0	0	0	0	0
Virginia Polytechnic Institute and State U.	31,654	13,955	7,355	6,007	4,337	26,982	12,911	6,516	4,542	3,013

TABLE 77

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2022

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
U. Wisconsin-La Crosse	79	79	0	0	0	79	79	0	0	0
U. Wisconsin-Madison	87,714	61,256	3,594	18,598	4,266	82,298	58,990	2,395	17,384	3,529
U. Wisconsin-Milwaukee	4,944	4,055	57	419	413	4,838	3,998	34	419	387
U. Wisconsin-Oshkosh	381	381	0	0	0	381	381	0	0	0
U. Wisconsin-Platteville	39 i	27 i	5 i	6 i	1 i	36 i	24 i	5 i	6 i	1 i
U. Wisconsin-Stevens Point	15	10	0	5	0	15	10	0	5	0
U. Wisconsin-Superior	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Private										
Marquette U.	2,660	1,968	355	139	198	2,348	1,781	321	48	198
Medical C. Wisconsin	32,610	12,803	4,481	15,285	41	32,403	12,658	4,481	15,223	41
Milwaukee School of Engineering	13	13	0	0	0	13	13	0	0	0
Northland C.	10 i	0 i	2 i	7 i	1 i	8 i	0 i	2 i	5 i	1 i
Wyoming										
Public										
U. Wyoming	14,480	5,210	8,079	803	388	14,284	5,129	8,000	803	352
Guam										
Public										
U. Guam	433	134	299	0	0	0	0	0	0	0
Puerto Rico										
Public										
U. Puerto Rico, Cayey	81	81	0	0	0	81	81	0	0	0
U. Puerto Rico, Humacao	181	181	0	0	0	181	181	0	0	0
U. Puerto Rico, Mayaguez	1,323	1,063	260	0	0	1,063	1,063	0	0	0
U. Puerto Rico, Medical Sciences Campus	3,344	1,965	1,379	0	0	3,344	1,965	1,379	0	0
U. Puerto Rico, Rio Piedras	4,740	4,720	0	20	0	4,517	4,517	0	0	0
Private										
U. Ana G. Mendez, Gurabo	0	0	0	0	0	0	0	0	0	0
U. Central del Caribe	0	0	0	0	0	0	0	0	0	0
Virgin Islands										
Public										
U. of the Virgin Islands	3,990	3,339	0	0	651	3,990	3,339	0	0	651

i = imputed. NA = not available; data were not provided by institution.

^a The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

^b The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

^c The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^d Johns Hopkins University includes the Applied Physics Laboratory, with zero in both total and federally financed R&D expenditures passed through to subrecipients in FY 2022.

Note(s):

This table includes only institutions reporting \$1 million or more in total R&D expenditures in 2021. Institutions reporting less than \$1 million in total R&D expenditures in 2021 completed a shorter version of the survey form in FY 2022, and that form requested R&D expenditures passed through only to higher education institutions. For a list of R&D expenditures passed through to higher education institutions at institutions completing the shorter version of the survey, see table 85.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2022.