

UMass Research & Expenditures Report

FY 2022

Office of the President, Institutional Research



University of Massachusetts

Amherst • Boston • Dartmouth • Lowell • Medical School • UMassOnline

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Key Highlights



\$813M

UMass Total R&D Expenditures FY 2022



8.1%

1-Year Change in UMass Total R&D Expenditures (vs. FY 2021)



23.1%

5-Year Change in UMass Total R&D Expenditures (vs. FY 2017)



#3*

State Ranking among MA universities in R&D Expenditures FY 2021



\$754M

UMass STEM R&D Expenditures FY 2022




7.1%

1-Year Change in UMass STEM R&D Expenditures (vs. FY 2021)



57%

Percent of all R&D Expenditures from Life Sciences FY 2022



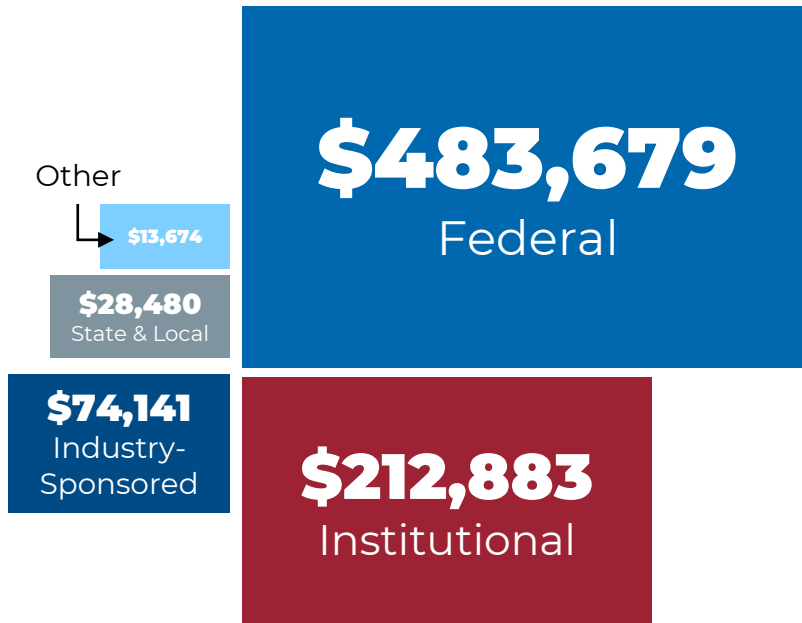
65%*

Percent of Total MA R&D Expenditures from Harvard, MIT, & UMass FY 2021

* R&D expenditures data for state FY 2022 is currently not available.

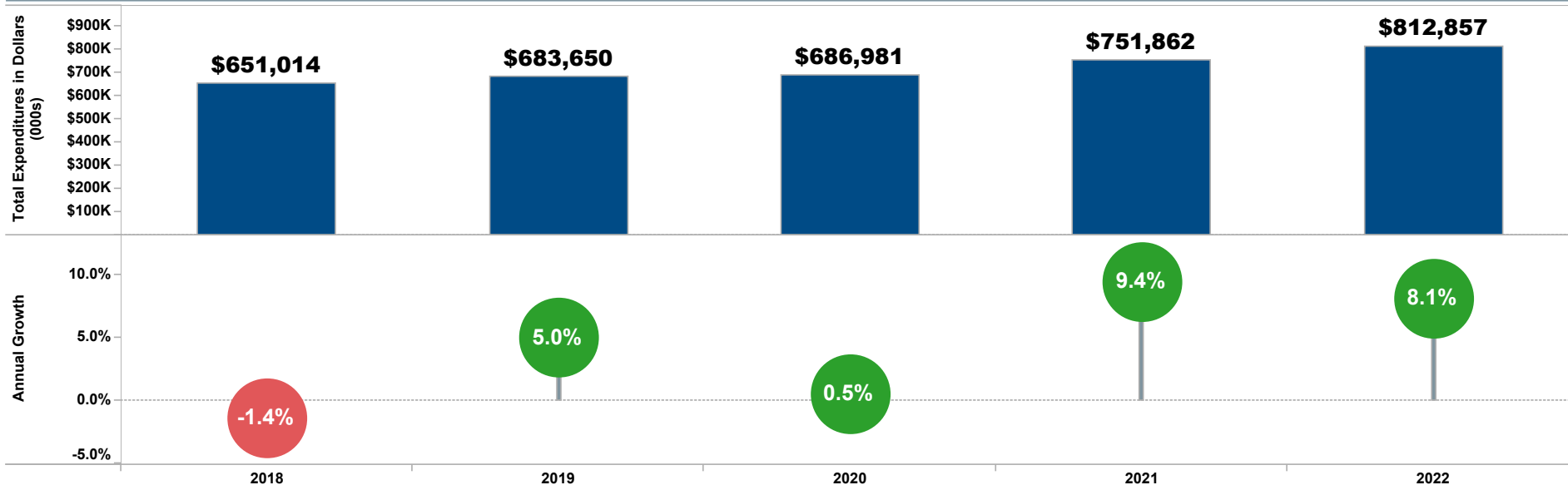
Key Highlights

UMASS SOURCE OF FUNDING FY 2022 (IN THOUSANDS)

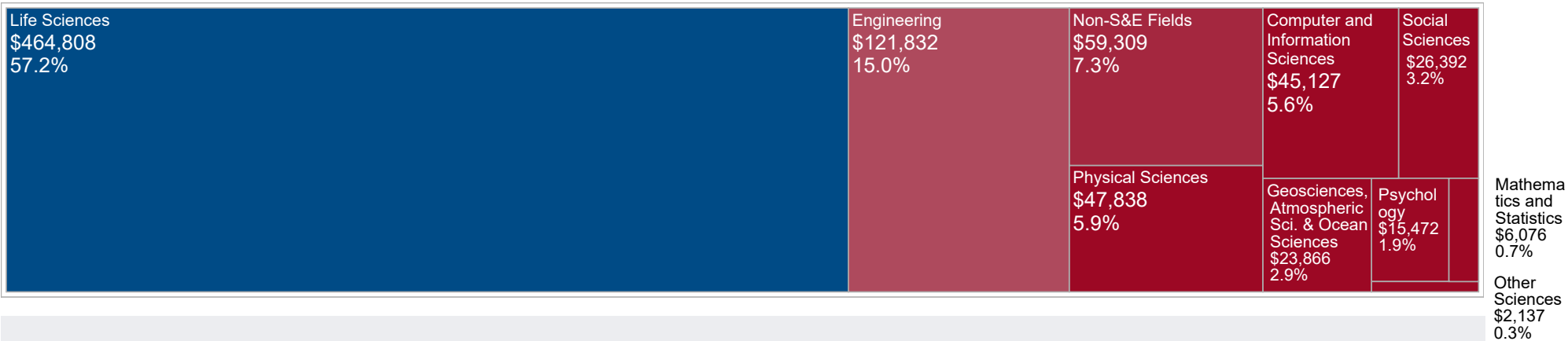


Source	1-Year % Change (vs. FY 2021)	5-Year % Change (vs. FY 2017)
Federal	▲9%	▲28%
State & Local	▼2%	▼20%
Industry Sponsored	▲16%	▲21%
Institutional	▲6%	▲17%
Other	▲8%	▲173%

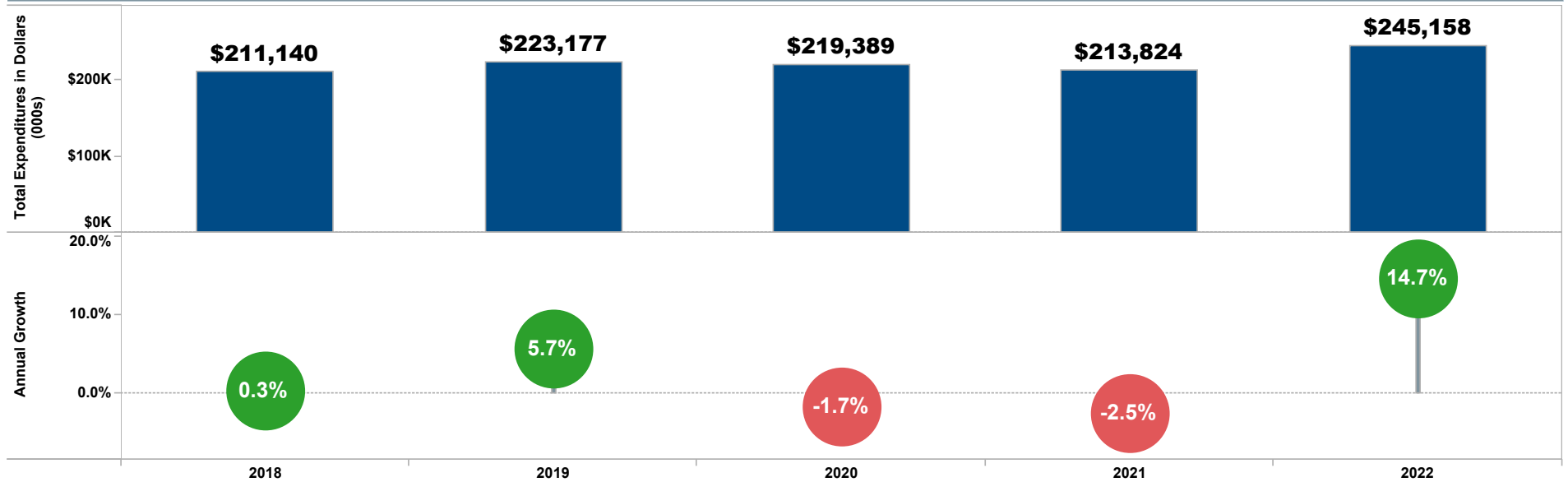
UMass System Total R&D Expenditures FY 2018 - FY 2022



UMass System Total R&D Expenditure by R&D Field Group FY 2022



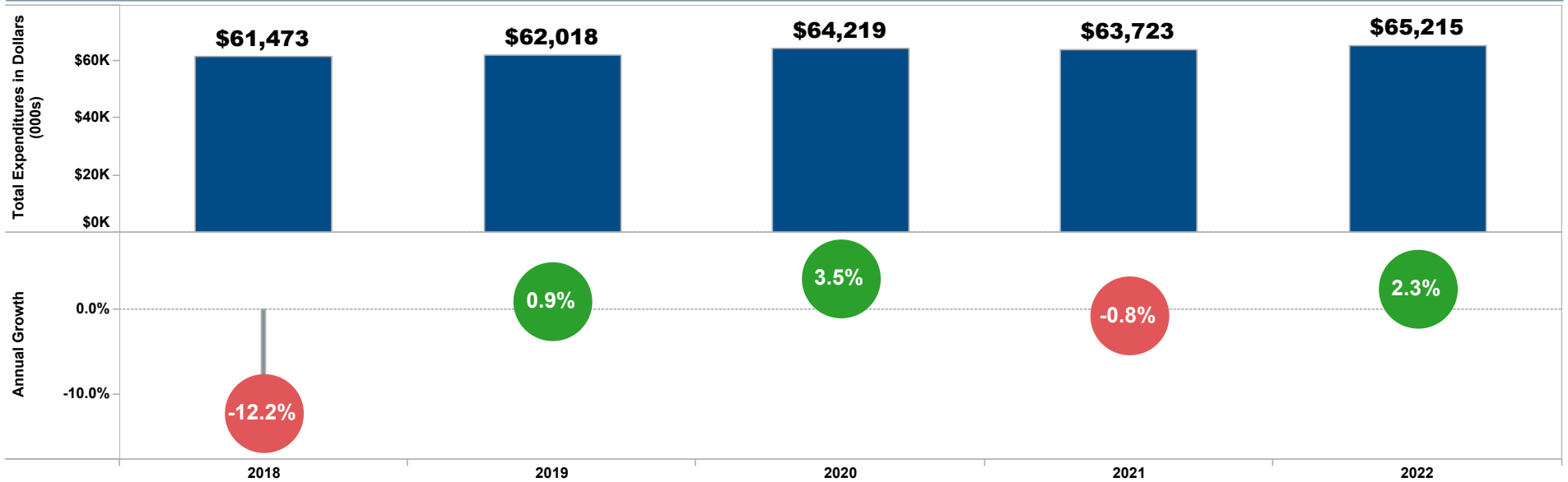
Amherst Total R&D Expenditures FY 2018 - FY 2022



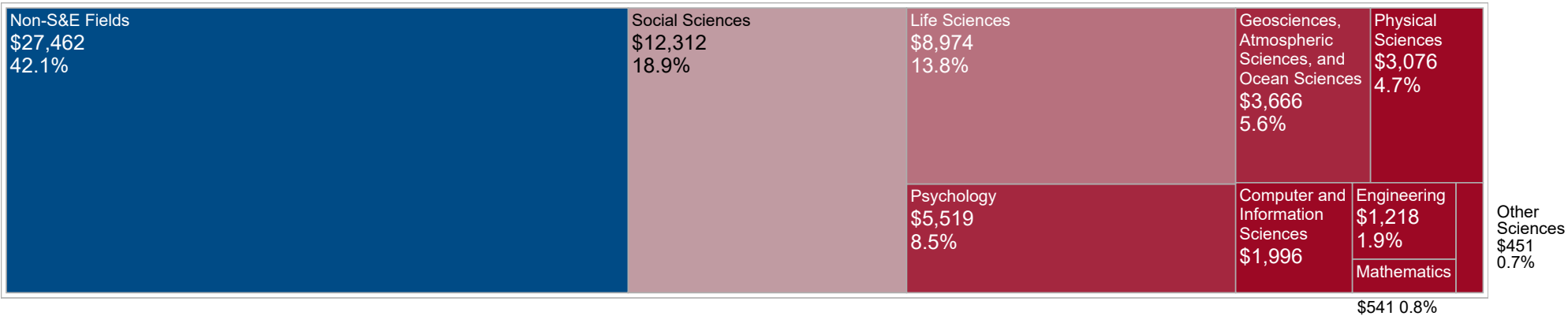
Amherst Total R&D Expenditure by R&D Field Group FY 2022

Life Sciences \$77,193 31.5%	Engineering \$67,776 27.6%	Computer and Information Sciences \$30,721 12.5%	Non-S&E Fields \$21,731 8.9%	Psychology \$8,227 3.4%
		Physical Sciences \$23,286 9.5%	Social Sciences \$7,235 3.0%	Geosciences, Atmospheric \$4,378 1.8%
			Mathematics \$3,351 1.4%	Other Sciences \$1,260 0.5%

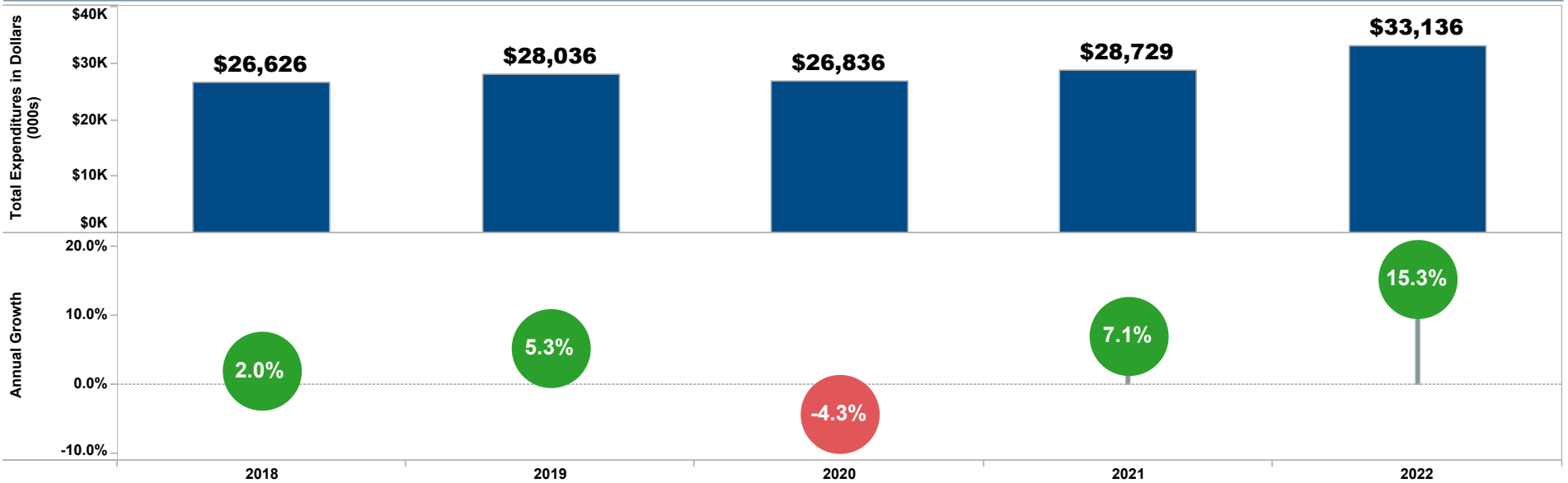
Boston Total R&D Expenditures FY 2018 - FY 2022



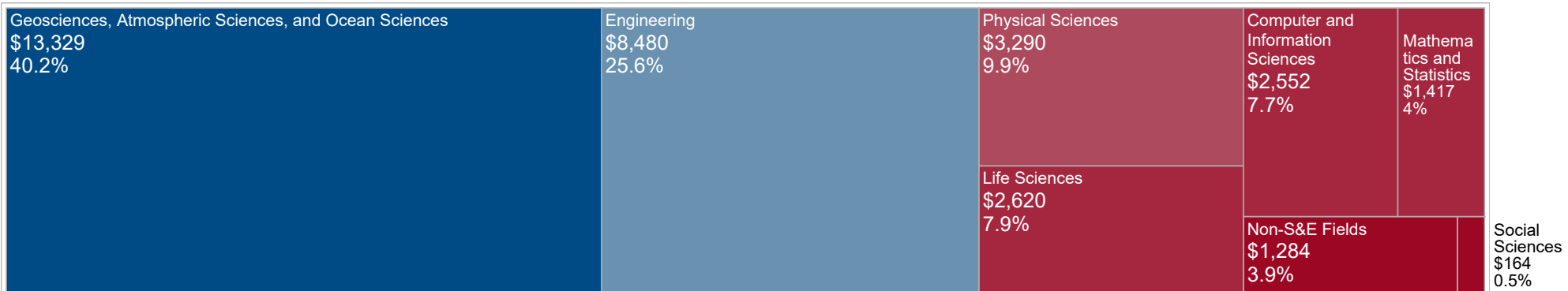
Boston Total R&D Expenditure by R&D Field Group FY 2022



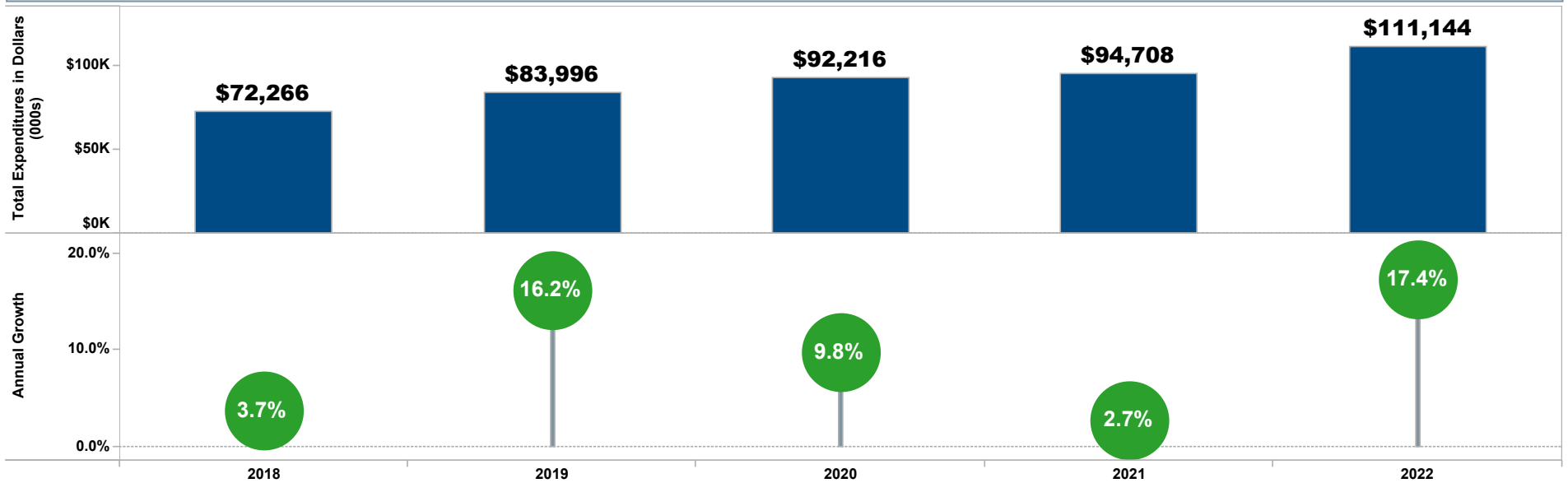
Dartmouth Total R&D Expenditures FY 2018 - FY 2022



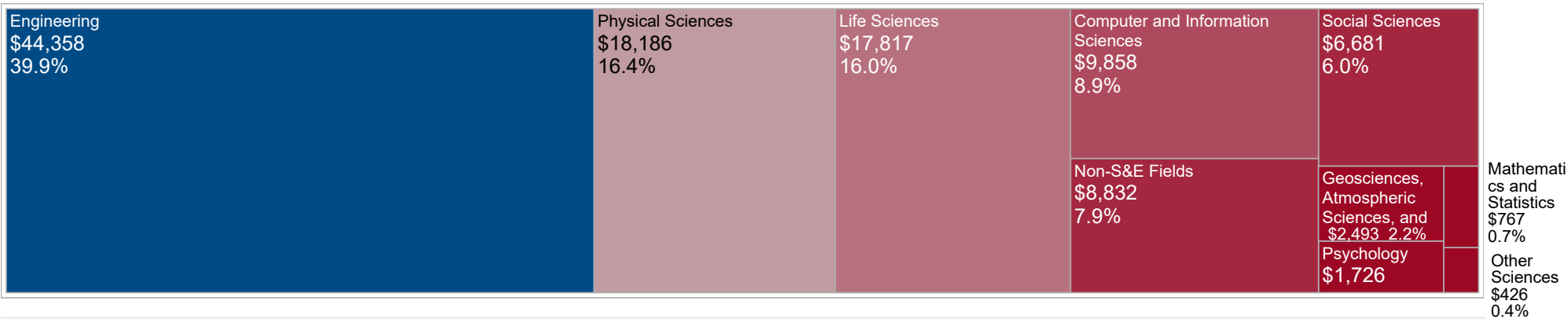
Dartmouth Total R&D Expenditure by R&D Field Group FY 2022



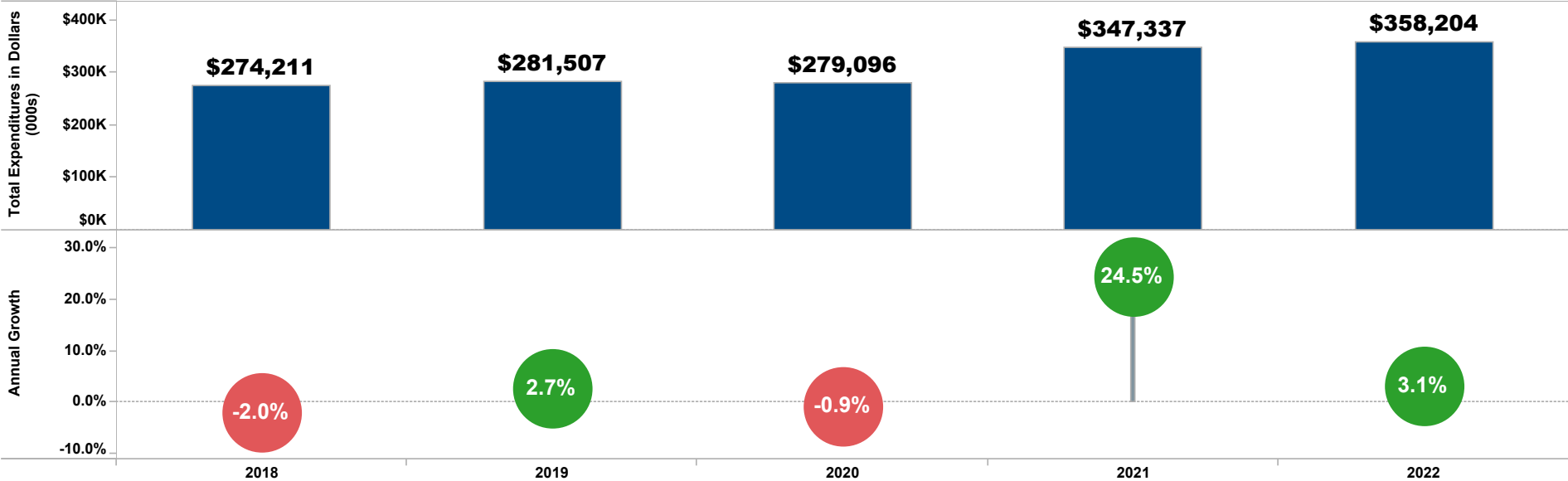
Lowell Total R&D Expenditures FY 2018 - FY 2022



Lowell Total R&D Expenditure by R&D Field Group FY 2022



Chan Medical School Total R&D Expenditures FY 2018 - FY 2022



Chan Medical School Total R&D Expenditure by R&D Field Group FY 2022



UMass System - FY 2022 Total Expenditures by Field (Federal and Non-Federal)

Field Category	Field Group	Field	Federal	Non Federal	Grand Total
Grand Total			\$483,679	\$329,178	\$812,857
SCI & ENG FIELDS	Engineering	Aerospace, Aeronautical, and Astronautical Engineering	\$113	\$0	\$113
		Bioengineering and Biomedical Engineering	\$7,119	\$3,821	\$10,940
		Chemical Engineering	\$20,801	\$15,443	\$36,244
		Civil Engineering	\$8,423	\$11,222	\$19,645
		Electrical, Electronic, and Communications Engineering	\$11,570	\$13,214	\$24,784
		Industrial and Manufacturing Engineering	\$0	\$10	\$10
		Mechanical Engineering	\$14,148	\$10,395	\$24,543
		Metallurgical and Materials Engineering	\$0	\$0	\$0
		Other Engineering	\$2,324	\$3,229	\$5,553
	Physical Sciences	Astronomy and Astrophysics	\$3,960	\$1,157	\$5,117
		Chemistry	\$9,725	\$9,389	\$19,114
		Materials Science	\$0	\$0	\$0
		Other Physical Sciences	\$0	\$12	\$12
		Physics	\$15,859	\$7,736	\$23,595
	Geosciences, Atmospheric Sciences, and Ocean Sciences	Atmospheric Science and Meteorology	\$642	\$128	\$770
		Geological and Earth Sciences	\$4,036	\$3,883	\$7,919
		Ocean Sciences and Marine Sciences	\$6,603	\$8,559	\$15,162
		Other Geosciences, Atmospheric Sciences, and Ocean Sciences	\$0	\$15	\$15
	Mathematics and Statistics	Mathematics and Statistics	\$2,924	\$3,152	\$6,076
	Computer and Information Sciences	Computer and Information Sciences	\$25,165	\$19,962	\$45,127
	Life Sciences	Agricultural	\$0	\$0	\$0
		Agricultural Sciences	\$11,370	\$9,991	\$21,361
		Biological and Biomedical Sciences	\$132,087	\$65,270	\$197,357
		Health Sciences	\$111,487	\$44,537	\$156,024
		Natural Resources and Conservation	\$4,463	\$4,704	\$9,167
		Other Life Sciences	\$55,505	\$25,394	\$80,899
		Psychology	\$9,355	\$6,117	\$15,472
	Social Sciences	Anthropology	\$440	\$799	\$1,239
		Economics	\$870	\$1,200	\$2,070
		Other Social Sciences	\$2,551	\$6,665	\$9,216
		Political Science and Government	\$507	\$3,772	\$4,279
		Sociology, Demography, and Population Studies	\$4,601	\$4,987	\$9,588
	Other Sciences	Other Sciences	\$381	\$1,756	\$2,137
NON-SCI & ENG FIELDS	Non-S&E Fields	Business Management and Business Administration	\$172	\$5,350	\$5,522
		Communication and Communications Technologies	\$287	\$205	\$492
		Education	\$12,037	\$21,830	\$33,867
		Humanities	\$502	\$5,299	\$5,801
		Law	\$18	\$11	\$29
		Other Non-Science and Engin.	\$3,316	\$8,634	\$11,950
		Social Work	\$0	\$233	\$233
		Visual and Performing Arts	\$318	\$1,097	\$1,415

Amherst - FY 2022 Total Expenditures by Field (Federal and Non-Federal)

Field Category	Field Group	Field	Federal	Non Federal	Grand Total
Grand Total			\$129,044	\$116,114	\$245,158
SCI & ENG FIELDS	Engineering	Aerospace, Aeronautical, and Astronautical Engineering	\$0	\$0	\$0
		Bioengineering and Biomedical Engineering	\$2,447	\$1,466	\$3,913
		Chemical Engineering	\$13,477	\$8,365	\$21,842
		Civil Engineering	\$6,201	\$8,805	\$15,006
		Electrical, Electronic, and Communications Engineering	\$5,857	\$7,246	\$13,103
		Industrial and Manufacturing Engineering	\$0	\$0	\$0
		Mechanical Engineering	\$4,997	\$4,175	\$9,172
		Metallurgical and Materials Engineering	\$0	\$0	\$0
		Other Engineering	\$2,225	\$2,515	\$4,740
	Physical Sciences	Astronomy and Astrophysics	\$3,960	\$1,157	\$5,117
		Chemistry	\$6,492	\$2,895	\$9,387
		Materials Science	\$0	\$0	\$0
		Other Physical Sciences	\$0	\$0	\$0
		Physics	\$5,750	\$3,032	\$8,782
	Geosciences, Atmospheric Sciences, and Ocean Sciences	Atmospheric Science and Meteorology	\$0	\$0	\$0
		Geological and Earth Sciences	\$2,553	\$1,825	\$4,378
		Ocean Sciences and Marine Sciences	\$0	\$0	\$0
		Other Geosciences, Atmospheric Sciences, and Ocean Sciences	\$0	\$0	\$0
	Mathematics and Statistics	Mathematics and Statistics	\$2,326	\$1,025	\$3,351
	Computer and Information Sciences	Computer and Information Sciences	\$17,579	\$13,142	\$30,721
	Life Sciences	Agricultural Sciences	\$11,303	\$9,974	\$21,277
		Biological and Biomedical Sciences	\$17,268	\$10,108	\$27,376
		Health Sciences	\$7,131	\$3,787	\$10,918
		Natural Resources and Conservation	\$4,380	\$3,841	\$8,221
		Other Life Sciences	\$594	\$8,807	\$9,401
		Psychology	\$5,574	\$2,653	\$8,227
	Social Sciences	Anthropology	\$270	\$267	\$537
		Economics	\$856	\$825	\$1,681
		Other Social Sciences	\$720	\$2,215	\$2,935
		Political Science and Government	\$363	\$258	\$621
		Sociology, Demography, and Population Studies	\$989	\$472	\$1,461
	Other Sciences	Other Sciences	\$286	\$974	\$1,260
	NON-SCI & ENG FIELDS	Non-S&E Fields	Business Management and Business Administration	\$138	\$1,548
Communication and Communications Technologies			\$91	\$130	\$221
Education			\$2,393	\$3,028	\$5,421
Humanities			\$100	\$2,859	\$2,959
Law			\$18	\$0	\$18
Other Non-Science and Engin.			\$2,690	\$8,409	\$11,099
Social Work			\$0	\$0	\$0
Visual and Performing Arts			\$16	\$311	\$327

Boston - FY 2022 Total Expenditures by Field (Federal and Non-Federal)

Field Category	Field Group	Field	Federal	Non Federal	Grand Total	
Grand Total			\$23,131	\$42,084	\$65,215	
SCI & ENG FIELDS	Engineering	Aerospace, Aeronautical, and Astronautical Engineering	\$0	\$0	\$0	
		Bioengineering and Biomedical Engineering	\$24	\$0	\$24	
		Chemical Engineering	\$0	\$0	\$0	
		Civil Engineering	\$0	\$0	\$0	
		Electrical, Electronic, and Communications Engineering	\$611	\$254	\$865	
		Industrial and Manufacturing Engineering	\$0	\$10	\$10	
		Mechanical Engineering	\$0	\$0	\$0	
		Metallurgical and Materials Engineering	\$0	\$0	\$0	
	Other Engineering	\$0	\$319	\$319		
	Physical Sciences	Astronomy and Astrophysics	\$0	\$0	\$0	
		Chemistry	\$1,343	\$580	\$1,923	
		Materials Science	\$0	\$0	\$0	
		Other Physical Sciences	\$0	\$0	\$0	
		Physics	\$450	\$703	\$1,153	
	Geosciences, Atmospheric Sciences, and Ocean Sciences	Atmospheric Science and Meteorology	\$0	\$0	\$0	
		Geological and Earth Sciences	\$453	\$1,365	\$1,818	
		Ocean Sciences and Marine Sciences	\$471	\$1,362	\$1,833	
		Other Geosciences, Atmospheric Sciences, and Ocean Sciences	\$0	\$15	\$15	
	Mathematics and Statistics	Mathematics and Statistics	\$40	\$501	\$541	
	Computer and Information Sciences	Computer and Information Sciences	\$724	\$1,272	\$1,996	
	Life Sciences	Agricultural Sciences	\$67	\$17	\$84	
		Biological and Biomedical Sciences	\$2,889	\$2,137	\$5,026	
		Health Sciences	\$2,282	\$781	\$3,063	
		Natural Resources and Conservation	\$83	\$718	\$801	
		Other Life Sciences	\$0	\$0	\$0	
	Psychology	Psychology	\$3,023	\$2,496	\$5,519	
	Social Sciences	Anthropology	\$170	\$532	\$702	
		Economics	\$13	\$97	\$110	
		Other Social Sciences	\$436	\$2,906	\$3,342	
		Political Science and Government	\$0	\$3,039	\$3,039	
		Sociology, Demography, and Population Studies	\$1,744	\$3,375	\$5,119	
	Other Sciences	Other Sciences	\$0	\$451	\$451	
	NON-SCI & ENG FIELDS	Non-S&E Fields	Business Management and Business Administration	\$0	\$541	\$541
			Communication and Communications Technologies	\$0	\$42	\$42
			Education	\$7,934	\$17,381	\$25,315
			Humanities	\$72	\$770	\$842
			Law	\$0	\$0	\$0
			Other Non-Science and Engin.	\$0	\$27	\$27
			Social Work	\$0	\$233	\$233
			Visual and Performing Arts	\$302	\$160	\$462

Dartmouth - FY 2022 Total Expenditures by Field (Federal and Non-Federal)

Field Category	Field Group	Field	Federal	Non Federal	Grand Total
Grand Total			\$11,162	\$21,974	\$33,136
SCI & ENG FIELDS	Engineering	Aerospace, Aeronautical, and Astronautical Engineering	\$113	\$0	\$113
		Bioengineering and Biomedical Engineering	\$0	\$923	\$923
		Chemical Engineering	\$0	\$0	\$0
		Civil Engineering	\$837	\$1,201	\$2,038
		Electrical, Electronic, and Communications Engineering	\$736	\$2,091	\$2,827
		Industrial and Manufacturing Engineering	\$0	\$0	\$0
		Mechanical Engineering	\$559	\$1,736	\$2,295
		Metallurgical and Materials Engineering	\$0	\$0	\$0
		Other Engineering	\$0	\$284	\$284
	Physical Sciences	Astronomy and Astrophysics	\$0	\$0	\$0
		Chemistry	\$363	\$2,072	\$2,435
		Materials Science	\$0	\$0	\$0
		Other Physical Sciences	\$0	\$12	\$12
		Physics	\$74	\$769	\$843
	Geosciences, Atmospheric Sciences, and Ocean Sciences	Atmospheric Science and Meteorology	\$0	\$0	\$0
		Geological and Earth Sciences	\$0	\$0	\$0
		Ocean Sciences and Marine Sciences	\$6,132	\$7,197	\$13,329
		Other Geosciences, Atmospheric Sciences, and Ocean Sciences	\$0	\$0	\$0
	Mathematics and Statistics	Mathematics and Statistics	\$480	\$937	\$1,417
	Computer and Information Sciences	Computer and Information Sciences	\$735	\$1,817	\$2,552
	Life Sciences	Agricultural Sciences	\$0	\$0	\$0
		Biological and Biomedical Sciences	\$191	\$2,034	\$2,225
		Health Sciences	\$0	\$395	\$395
		Natural Resources and Conservation	\$0	\$0	\$0
		Other Life Sciences	\$0	\$0	\$0
	Psychology	Psychology	\$0	\$0	\$0
	Social Sciences	Anthropology	\$0	\$0	\$0
		Economics	\$1	\$0	\$1
		Other Social Sciences	\$18	\$145	\$163
		Political Science and Government	\$0	\$0	\$0
		Sociology, Demography, and Population Studies	\$0	\$0	\$0
	Other Sciences	Other Sciences	\$0	\$0	\$0
	NON-SCI & ENG FIELDS	Non-S&E Fields	Business Management and Business Administration	\$0	\$13
Communication and Communications Technologies			\$196	\$33	\$229
Education			\$727	\$275	\$1,002
Humanities			\$0	\$0	\$0
Law			\$0	\$11	\$11
Other Non-Science and Engin.			\$0	\$1	\$1
Social Work			\$0	\$0	\$0
Visual and Performing Arts			\$0	\$28	\$28

Lowell - FY 2022 Total Expenditures by Field (Federal and Non-Federal)

Field Category	Field Group	Field	Federal	Non Federal	Grand Total
Grand Total			\$62,195	\$48,949	\$111,144
SCI & ENG FIELDS	Engineering	Aerospace, Aeronautical, and Astronautical Engineering	\$0	\$0	\$0
		Bioengineering and Biomedical Engineering	\$4,648	\$1,432	\$6,080
		Chemical Engineering	\$7,324	\$7,078	\$14,402
		Civil Engineering	\$1,385	\$1,216	\$2,601
		Electrical, Electronic, and Communications Engineering	\$4,366	\$3,623	\$7,989
		Industrial and Manufacturing Engineering	\$0	\$0	\$0
		Mechanical Engineering	\$8,592	\$4,484	\$13,076
		Metallurgical and Materials Engineering	\$0	\$0	\$0
		Other Engineering	\$99	\$111	\$210
	Physical Sciences	Astronomy and Astrophysics	\$0	\$0	\$0
		Chemistry	\$1,527	\$3,842	\$5,369
		Materials Science	\$0	\$0	\$0
		Other Physical Sciences	\$0	\$0	\$0
		Physics	\$9,585	\$3,232	\$12,817
	Geosciences, Atmospheric Sciences, and Ocean Sciences	Atmospheric Science and Meteorology	\$642	\$128	\$770
		Geological and Earth Sciences	\$1,030	\$693	\$1,723
		Ocean Sciences and Marine Sciences	\$0	\$0	\$0
		Other Geosciences, Atmospheric Sciences, and Ocean Sciences	\$0	\$0	\$0
	Mathematics and Statistics	Mathematics and Statistics	\$78	\$689	\$767
	Computer and Information Sciences	Computer and Information Sciences	\$6,127	\$3,731	\$9,858
	Life Sciences	Agricultural	\$0	\$0	\$0
		Biological and Biomedical Sciences	\$4,877	\$3,899	\$8,776
		Health Sciences	\$5,700	\$3,196	\$8,896
		Natural Resources and Conservation	\$0	\$145	\$145
		Other Life Sciences	\$0	\$0	\$0
	Psychology	Psychology	\$758	\$968	\$1,726
	Social Sciences	Anthropology	\$0	\$0	\$0
		Economics	\$0	\$278	\$278
		Other Social Sciences	\$1,377	\$1,399	\$2,776
		Political Science and Government	\$144	\$475	\$619
		Sociology, Demography, and Population Studies	\$1,868	\$1,140	\$3,008
	Other Sciences	Other Sciences	\$95	\$331	\$426
	NON-SCI & ENG FIELDS	Non-S&E Fields	Business Management and Business Administration	\$34	\$3,248
Communication and Communications Technologies			\$0	\$0	\$0
Education			\$983	\$1,146	\$2,129
Humanities			\$330	\$1,670	\$2,000
Law			\$0	\$0	\$0
Other Non-Science and Engin.			\$626	\$197	\$823
Social Work			\$0	\$0	\$0
Visual and Performing Arts			\$0	\$598	\$598

Chan Medical School - FY 2022 Total Expenditures by Field (Federal and Non-Federal)

Field Category	Field Group	Field	Federal	Non Federal	Grand Total
Grand Total			\$258,147	\$100,057	\$358,204
SCI & ENG FIELDS	Engineering	Aerospace, Aeronautical, and Astronautical Engineering	\$0	\$0	\$0
		Bioengineering and Biomedical Engineering	\$0	\$0	\$0
		Chemical Engineering	\$0	\$0	\$0
		Civil Engineering	\$0	\$0	\$0
		Electrical, Electronic, and Communications Engineering	\$0	\$0	\$0
		Industrial and Manufacturing Engineering	\$0	\$0	\$0
		Mechanical Engineering	\$0	\$0	\$0
		Metallurgical and Materials Engineering	\$0	\$0	\$0
		Other Engineering	\$0	\$0	\$0
	Physical Sciences	Astronomy and Astrophysics	\$0	\$0	\$0
		Chemistry	\$0	\$0	\$0
		Materials Science	\$0	\$0	\$0
		Other Physical Sciences	\$0	\$0	\$0
		Physics	\$0	\$0	\$0
	Geosciences, Atmospheric Sciences, and Ocean Sciences	Atmospheric Science and Meteorology	\$0	\$0	\$0
		Geological and Earth Sciences	\$0	\$0	\$0
		Ocean Sciences and Marine Sciences	\$0	\$0	\$0
		Other Geosciences, Atmospheric Sciences, and Ocean Sciences	\$0	\$0	\$0
	Mathematics and Statistics	Mathematics and Statistics	\$0	\$0	\$0
	Computer and Information Sciences	Computer and Information Sciences	\$0	\$0	\$0
	Life Sciences	Agricultural Sciences	\$0	\$0	\$0
		Biological and Biomedical Sciences	\$106,862	\$47,092	\$153,954
		Health Sciences	\$96,374	\$36,378	\$132,752
		Natural Resources and Conservation	\$0	\$0	\$0
		Other Life Sciences	\$54,911	\$16,587	\$71,498
	Psychology	Psychology	\$0	\$0	\$0
	Social Sciences	Anthropology	\$0	\$0	\$0
		Economics	\$0	\$0	\$0
		Other Social Sciences	\$0	\$0	\$0
		Political Science and Government	\$0	\$0	\$0
		Sociology, Demography, and Population Studies	\$0	\$0	\$0
	Other Sciences	Other Sciences	\$0	\$0	\$0
	NON-SCI & ENG FIELDS	Non-S&E Fields	Business Management and Business Administration	\$0	\$0
Communication and Communications Technologies			\$0	\$0	\$0
Education			\$0	\$0	\$0
Humanities			\$0	\$0	\$0
Law			\$0	\$0	\$0
Other Non-Science and Engin.			\$0	\$0	\$0
Social Work			\$0	\$0	\$0
Visual and Performing Arts			\$0	\$0	\$0

FY 2018 - FY 2022 R&D Expenditures in Dollars (000s) by Source - Details

Source	Campus Name	Fiscal Year				
		2018	2019	2020	2021	2022
Federal	Amherst	\$110,654	\$117,359	\$116,170	\$116,349	\$129,044
	Boston	\$30,412	\$25,083	\$27,575	\$23,673	\$23,131
	Chan Medical School	\$194,953	\$197,388	\$192,938	\$248,873	\$258,147
	Dartmouth	\$7,156	\$7,353	\$6,506	\$8,223	\$11,162
	Lowell	\$30,086	\$35,309	\$41,304	\$48,179	\$62,195
	Presidents Office	\$643	\$488	\$488	\$342	\$0
	UMASS System	\$373,904	\$382,980	\$384,981	\$445,639	\$483,679
State & Local	Amherst	\$9,620	\$12,409	\$7,779	\$8,595	\$12,632
	Boston	\$2,075	\$2,369	\$3,325	\$7,113	\$8,852
	Chan Medical School	\$82	\$477	\$1,410	\$5,405	\$2,878
	Dartmouth	\$1,751	\$1,603	\$1,644	\$1,422	\$1,519
	Lowell	\$4,523	\$6,390	\$8,471	\$4,201	\$2,599
	Presidents Office	\$3,309	\$3,226	\$3,533	\$2,417	\$0
	UMASS System	\$21,360	\$26,474	\$26,162	\$29,153	\$28,480
Institutional	Amherst	\$72,017	\$70,889	\$75,307	\$71,954	\$79,588
	Boston	\$23,998	\$28,163	\$25,435	\$25,532	\$25,606
	Chan Medical School	\$44,237	\$43,238	\$45,329	\$49,135	\$49,909
	Dartmouth	\$16,119	\$17,421	\$16,761	\$16,908	\$18,713
	Lowell	\$31,612	\$36,658	\$35,980	\$36,562	\$39,067
	Presidents Office	\$318	\$240	\$285	\$256	\$0
	UMASS System	\$188,301	\$196,609	\$199,097	\$200,347	\$212,883
Other	Amherst	\$1,313	\$3,508	\$3,551	\$3,737	\$6,666
	Boston	\$345	\$620	\$191	\$354	\$625
	Chan Medical School	\$4,092	\$7,085	\$4,811	\$7,713	\$5,408
	Dartmouth	\$249	\$232	\$264	\$175	\$267
	Lowell	\$1,406	\$1,084	\$1,898	\$658	\$708
	Presidents Office	\$7	\$61	\$75	\$21	\$0
	UMASS System	\$7,412	\$12,590	\$10,790	\$12,658	\$13,674
Industry-Sponsored : Business	Amherst	\$9,381	\$10,026	\$7,702	\$7,710	\$8,582
	Boston	\$1,413	\$1,675	\$2,075	\$2,222	\$2,043
	Chan Medical School	\$12,585	\$16,386	\$15,073	\$16,669	\$20,870
	Dartmouth	\$909	\$1,140	\$1,354	\$1,488	\$1,035
	Lowell	\$3,588	\$3,460	\$3,263	\$3,444	\$4,463
	Presidents Office	\$266	\$323	\$242	\$1	\$0
	UMASS System	\$28,142	\$33,010	\$29,709	\$31,534	\$36,993
Industry-Sponsored : Nonprofit organizations	Amherst	\$8,155	\$8,986	\$8,880	\$5,479	\$8,646
	Boston	\$3,230	\$4,108	\$5,618	\$4,829	\$4,958
	Chan Medical School	\$18,262	\$16,933	\$19,535	\$19,542	\$20,992
	Dartmouth	\$442	\$287	\$307	\$513	\$440
	Lowell	\$1,051	\$1,095	\$1,300	\$1,664	\$2,112
	Presidents Office	\$755	\$578	\$602	\$504	\$0
	UMASS System	\$31,895	\$31,987	\$36,242	\$32,531	\$37,148
Grand Total		\$651,014	\$683,650	\$686,981	\$751,862	\$812,857