



National Center for Science and
Engineering Statistics

Data Tables Report

Nonprofit Research Activities: FY 2024

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Contents

General Notes	2
Data Tables	3
Technical Notes	30
Technical Tables	37
Suggested Citation	41

General Notes

These tables present the results of the Nonprofit Research Activities (NPRA) FY 2024 module of the 2025 Annual Business Survey, conducted by the Census Bureau for the National Center for Science and Engineering Statistics (NCSES) within the U.S. National Science Foundation (NSF).

NCSES has reviewed this product for unauthorized disclosure of confidential information and approved its release (NCSES-DRN26-032).

Data Tables

Summary Tables

Table	Title
1	Total expenses of nonprofit organizations with R&D activity, by type of nonprofit organization: FYs 2020–24
2	Total expenditures for R&D performed by nonprofit organizations, by type of nonprofit organization: FYs 2020–24
3	Total expenditures for R&D performed by nonprofit organizations, by type of nonprofit organization and type of cost: FYs 2022–24

R&D expenditures: FYs 2022–24

Table	Title
4	Total expenditures for R&D performed by nonprofit organizations, by source of funds and type of nonprofit organization: FYs 2022–24
5	Total expenditures for R&D performed by nonprofit organizations, by field and type of nonprofit organization: FYs 2022–24
6	Total expenditures for R&D performed by nonprofit organizations, by source of funds, type of R&D, and type of nonprofit organization: FYs 2022–24

R&D funding provided to others: FYs 2022–24

Table	Title
7	Funds provided by nonprofit organizations to others for R&D, by type of agreement and type of nonprofit organization: FYs 2022–24

R&D personnel: FYs 2022–24

Table	Title
8	Employees of nonprofit organizations with R&D activity, by type of nonprofit organization: FYs 2022–24
9	Persons working on R&D at nonprofit organizations, by employment status and type of nonprofit organization: FYs 2022–24
10	R&D employees of nonprofit organizations, by occupation category and type of nonprofit organization: FYs 2022–24
11	Full-time equivalent R&D employees of nonprofit organizations, by occupation category and type of nonprofit organization: FYs 2022–24

Capital expenditures: FYs 2022–24

Table	Title
12	Capital expenditures at R&D-performing organizations, by type of nonprofit organization: FYs 2022–24
13	Total capital expenditures for R&D: FYs 2022–24

State distributions: FYs 2022–24

Table	Title
14	Total expenses of nonprofit organizations with R&D activity, by state: FYs 2022–24
15	Employees of nonprofit organizations with R&D activity, by state: FYs 2022–24
16	Total expenditures for R&D performed by nonprofit organizations, by state and source of funds: FYs 2022–24
17	Funds provided by nonprofit organizations to others for R&D, by state: FYs 2022–24
18	Persons working on R&D at nonprofit organizations, by state: FYs 2022–24
19	Full-time equivalent R&D employees of nonprofit organizations, by state: FYs 2022–24

Table 1. Total expenses of nonprofit organizations with R&D activity, by type of nonprofit organization: FYs 2020–24
(Dollars in thousands)

Fiscal year	Type of nonprofit organization ^a							
	All organizations		Healthcare		Science and technology		Other nonprofit organizations	
2020	678,869,289		610,161,212		19,110,153		49,597,923	
2021	880,925,119		811,632,802		18,510,610		50,781,707	
2022	857,790,377		787,218,247		20,962,916		49,609,214	
2023	946,671,140		873,669,021		21,488,955		51,513,164	
2024	934,712,782		841,537,042		21,275,177		71,900,564	

^a Nonprofit organizations are classified using the 2022 North American Industry Classification System code that accounts for the majority of their payroll. This classification may differ from the National Taxonomy of Exempt Entities Core Codes system used by the Internal Revenue Service and National Center for Charitable Statistics.

Note(s):
These data exclude nonprofit universities and colleges and federally funded research and development centers administered by nonprofit organizations. Detail may not add to total because of rounding.

Source(s):
National Center for Science and Engineering Statistics and Census Bureau, Nonprofit Research Activities module of the Annual Business Survey.

Table 2. Total expenditures for R&D performed by nonprofit organizations, by type of nonprofit organization: FYs 2020–24

(Dollars in thousands)

Fiscal year	Type of nonprofit organization ^a							
	All organizations		Healthcare		Science and technology		Other nonprofit organizations	
2020	26,709,319		13,964,718		10,368,712		2,375,889	
2021	27,029,919		13,441,110		11,166,124		2,422,685	
2022	28,052,093		14,658,216		11,260,286		2,133,591	
2023	30,816,896		16,583,796		12,338,420		1,894,680	
2024	29,448,982		14,688,414		12,303,613		2,456,955	

^a Nonprofit organizations are classified using the 2022 North American Industry Classification System code that accounts for the majority of their payroll. This classification may differ from the National Taxonomy of Exempt Entities Core Codes system used by the Internal Revenue Service and National Center for Charitable Statistics.

Note(s):

These data exclude nonprofit universities and colleges and federally funded research and development centers administered by nonprofit organizations. Detail may not add to total because of rounding.

Source(s):

National Center for Science and Engineering Statistics and Census Bureau, Nonprofit Research Activities module of the Annual Business Survey.

Table 3. Total expenditures for R&D performed by nonprofit organizations, by type of nonprofit organization and type of cost: FYs 2022–24

(Dollars in thousands)

Type of cost	Type of nonprofit organization ^a											
	FY 2022				FY 2023				FY 2024			
	All organizations	Healthcare	Science and technology	Other nonprofit organizations	All organizations	Healthcare	Science and technology	Other nonprofit organizations	All organizations	Healthcare	Science and technology	Other nonprofit organizations
All R&D expenditures	28,052,093	14,658,216	11,260,286	2,133,591	30,816,896	16,583,796	12,338,420	1,894,680	29,448,982	14,688,414	12,303,613	2,456,955
Salaries, wages, and fringe benefits	14,521,246	7,684,554	5,735,872	1,100,819	16,650,597	9,145,968	6,448,466	1,056,163	15,538,701	7,892,426	6,313,668	1,332,606
Contract employees	1,070,777	432,962	265,837	371,978	934,674	339,798	380,181	214,696	1,089,717	374,965	468,975	245,777
Depreciation	801,959	314,008	451,960	35,991	898,080	377,160	475,804	45,116	880,138	281,819	503,260	95,059
Expensed machinery and equipment	202,330	41,145	74,096	87,089	282,887	70,859	167,862	44,167	238,634	78,429	139,340	20,865
Materials and supplies	2,747,918	1,819,429	864,539	63,951	3,084,639	1,925,891	1,098,377	60,371	2,896,492	1,590,436	1,224,229	81,827
All other costs	8,707,864	4,366,119	3,867,982	473,763	8,966,018	4,724,120	3,767,730	474,168	8,805,300	4,470,339	3,654,140	680,821

i = more than 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

^a Nonprofit organizations are classified using the 2022 North American Industry Classification System code that accounts for the majority of their payroll. This classification may differ from the National Taxonomy of Exempt Entities Core Codes system used by the Internal Revenue Service and National Center for Charitable Statistics.

Note(s):
These data exclude nonprofit universities and colleges and federally funded research and development centers administered by nonprofit organizations. Detail may not add to total because of rounding.

Source(s):
National Center for Science and Engineering Statistics and Census Bureau, Nonprofit Research Activities module of the Annual Business Survey.

Table 4. Total expenditures for R&D performed by nonprofit organizations, by source of funds and type of nonprofit organization: FYs 2022–24

(Dollars in thousands)

Source of funds	Type of nonprofit organization ^a													
	FY 2022				FY 2023				FY 2024					
	All organizations	Healthcare	Science and technology	Other nonprofit organizations	All organizations	Healthcare	Science and technology	Other nonprofit organizations	All organizations	Healthcare	Science and technology	Other nonprofit organizations		
All R&D expenditures	28,052,093	14,658,216	11,260,286	2,133,591	30,816,896	16,583,796	12,338,420	1,894,680	29,448,982	14,688,414	12,303,613	2,456,955		
Internal funds	7,568,079	4,457,060	2,170,501	940,518	8,375,967	4,994,577	2,601,318	780,072	8,594,351	4,554,190	2,995,603	1,044,558		
Federal government	11,648,446	4,989,394	6,393,032	266,020	12,353,301	5,775,817	6,289,270	288,214	11,162,065	4,820,330	5,903,398	438,337		
State and local government	414,986	133,182	220,959	60,845	509,879	144,540	299,844	65,495	685,363	186,278	352,648	146,438		
Businesses	3,592,572	2,337,717	1,027,669	227,186	4,057,340	2,597,071	1,310,838	149,431	3,686,179	2,233,962	1,244,949	207,268		
Universities	436,839	346,287	85,108	5,444	511,384	376,198	129,537	5,648	518,091	391,855	109,030	17,206		
Foundations and all other nonprofits	2,241,716	1,100,077	829,507	312,131	2,667,192	1,159,165	1,120,602	387,425	2,516,419	1,099,608	1,021,285	395,527		
Individual donors	1,335,703	899,926	237,257	198,520	1,498,113	1,023,023	366,634	108,455	1,396,284	929,263	350,999	116,022		
Other	813,752	394,573	296,252	122,928	843,721	513,405	220,377	109,939	890,228	472,928	325,701	91,600		

i = more than 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

^a Nonprofit organizations are classified using the 2022 North American Industry Classification System code that accounts for the majority of their payroll. This classification may differ from the National Taxonomy of Exempt Entities Core Codes system used by the Internal Revenue Service and National Center for Charitable Statistics.

Note(s):
These data exclude nonprofit universities and colleges and federally funded research and development centers administered by nonprofit organizations. Detail may not add to total because of rounding.

Source(s):
National Center for Science and Engineering Statistics and Census Bureau, Nonprofit Research Activities module of the Annual Business Survey.

Table 5. Total expenditures for R&D performed by nonprofit organizations, by field and type of nonprofit organization: FYs 2022–24

(Dollars in thousands)

Field	Type of nonprofit organization ^a											
	FY 2022				FY 2023				FY 2024			
	All organizations	Healthcare	Science and technology	Other nonprofit organizations	All organizations	Healthcare	Science and technology	Other nonprofit organizations	All organizations	Healthcare	Science and technology	Other nonprofit organizations
All R&D expenditures	28,052,093	14,658,216	11,260,286	2,133,591	30,816,896	16,583,796	12,338,420	1,894,680	29,448,982	14,688,414	12,303,613	2,456,955
Sciences	24,480,812	14,329,183	8,396,130	1,755,500	27,513,530	16,485,540	9,528,500	1,499,489	26,137,802	14,593,400	9,767,092	1,777,312
Agricultural sciences and natural resources and conservation	960,669	32,965	593,981	333,723	949,506	129	676,334	273,043	1,038,078	811	729,247	308,020
Biological, biomedical, and health sciences	20,279,107	14,238,644	5,384,343	656,121	23,472,858	16,393,645	6,405,406	673,808	21,718,249	14,521,418	6,574,240	622,592
Geosciences, atmospheric sciences, and ocean sciences	551,867	0	443,365	108,502	576,715	1,909	480,669	94,136	569,907	0	505,212	64,696
Mathematics, statistics, and computer and information sciences	1,050,595	1,997	934,519	114,079	760,585	2,207	685,521	72,857	907,256	6,576	802,308	98,372
Physical sciences	391,343	0	264,470	126,873	529,340	240	355,417	173,683	466,161	219	234,293	231,649
Psychology and social sciences	1,247,231	55,577	775,452	416,202	1,224,526	87,410	925,153	211,962	1,438,151	64,376	921,792	451,983
Engineering	1,965,124	25,171	1,926,555	13,397	1,866,899	43,688	1,809,102	14,109	1,722,686	52,001	1,547,659	123,026
Humanities	129,536	1,114	105,943	22,479	154,113	28	129,849	24,236	198,954	0	120,895	78,059
Other fields	1,476,620	302,749	831,657	342,214	1,282,354	54,540	870,969	356,845	1,389,538	43,013	867,966	478,559

i = more than 50% of the estimate is a combination of imputation and reweighting to account for nonresponse; r = relative standard error > 50%.

^a Nonprofit organizations are classified using the 2022 North American Industry Classification System code that accounts for the majority of their payroll. This classification may differ from the National Taxonomy of Exempt Entities Core Codes system used by the Internal Revenue Service and National Center for Charitable Statistics.

Note(s):
These data exclude nonprofit universities and colleges and federally funded research and development centers administered by nonprofit organizations. Detail may not add to total because of rounding.

Source(s):
National Center for Science and Engineering Statistics and Census Bureau, Nonprofit Research Activities module of the Annual Business Survey.

Table 6. Total expenditures for R&D performed by nonprofit organizations, by source of funds, type of R&D, and type of nonprofit organization: FYs 2022–24

(Dollars in thousands)

Source of funds and type of R&D	Type of nonprofit organization ^a												
	FY 2022				FY 2023				FY 2024				
	All organizations	Healthcare	Science and technology	Other nonprofit organizations	All organizations	Healthcare	Science and technology	Other nonprofit organizations	All organizations	Healthcare	Science and technology	Other nonprofit organizations	
Total R&D expenditures	28,052,093	14,658,216	11,260,286	2,133,591	30,816,896	16,583,796	12,338,420	1,894,680	29,448,982	14,688,414	12,303,613	2,456,955	
Basic research	13,908,858	7,509,278	5,377,570	1,022,009	15,672,022	8,223,565	6,648,328	800,129	15,520,395	7,383,402	7,096,087	1,040,906	
Applied research	9,276,465	3,652,184	4,658,681	965,601	9,850,290	4,820,514	4,330,206	699,570	9,271,106	4,161,751	4,278,443	830,912	
Experimental development	4,866,770	3,496,755	1,224,035	145,980	5,294,584	3,539,715	1,359,887	394,982	4,657,481	3,143,260	929,083	585,137	
Federally funded R&D expenditures	11,648,446	4,989,394	6,393,032	266,020	12,353,301	5,775,817	6,289,270	288,214	11,162,065	4,820,330	5,903,398	438,337	
Basic research	5,556,248	2,695,373	2,773,283	87,592	6,217,845	3,127,126	3,008,275	82,444	5,850,119	2,585,974	3,099,210	164,936	
Applied research	4,724,002	1,632,482	2,940,648	150,872	4,522,154	1,816,026	2,552,825	153,302	4,250,162	1,606,474	2,471,907	171,781	
Experimental development	1,368,196	661,540	679,101	27,555	1,613,301	832,663	728,171	52,467	1,061,783	627,883	332,282	101,619	
Nonfederally funded R&D expenditures	16,403,647	9,668,823	4,867,253	1,867,571	18,463,595	10,807,979	6,049,150	1,606,467	18,286,916	9,868,083	6,400,215	2,018,618	
Basic research	8,352,610	4,813,906	2,604,287	934,417	9,454,177	5,096,439	3,640,053	717,685	9,670,276	4,797,429	3,996,877	875,970	
Applied research	4,552,464	2,019,702	1,718,033	814,729	5,328,136	3,004,489	1,777,379	546,268	5,020,943	2,555,277	1,806,536	659,131	
Experimental development	3,498,574	2,835,215	544,934	118,425	3,681,282	2,707,051	631,716	342,515	3,595,697	2,515,378	596,801	483,518	

i = more than 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

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Note(s):
These data exclude nonprofit universities and colleges and federally funded research and development centers administered by nonprofit organizations. Detail may not add to total because of rounding.

Source(s):
National Center for Science and Engineering Statistics and Census Bureau, Nonprofit Research Activities module of the Annual Business Survey.

Table 7. Funds provided by nonprofit organizations to others for R&D, by type of agreement and type of nonprofit organization: FYs 2022–24

(Dollars in thousands)

Type of agreement	Type of nonprofit organization ^a															
	FY 2022						FY 2023						FY 2024			
	All organizations	Healthcare	Science and technology		Other nonprofit organizations		All organizations	Healthcare	Science and technology		Other nonprofit organizations		All organizations	Healthcare	Science and technology	Other nonprofit organizations
All funds for R&D	8,277,041	1,329,548	1,931,920		5,015,573		7,942,861	1,357,110	2,154,542		4,431,209		10,524,372	1,665,016	2,100,092	6,759,264
R&D grants or contracts	5,629,925	314,517	726,698	i	4,588,711		5,039,132	345,507	549,859		4,143,766		7,301,789	342,156	522,803	6,436,830
Subcontracts and subawards	2,647,116	1,015,031	1,205,223		426,862		2,903,728	1,011,603	1,604,683		287,443		3,222,583	1,322,860	1,577,288	322,434

i = more than 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

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Note(s):
These data exclude nonprofit universities and colleges and federally funded research and development centers administered by nonprofit organizations. Detail may not add to total because of rounding.

Source(s):
National Center for Science and Engineering Statistics and Census Bureau, Nonprofit Research Activities module of the Annual Business Survey.

Table 8. Employees of nonprofit organizations with R&D activity, by type of nonprofit organization: FYs 2022–24
(Number)

Fiscal year	Type of nonprofit organization ^a							
	All organizations		Healthcare		Science and technology		Other nonprofit organizations	
2022	3,258,449		3,061,192		72,996		124,261	
2023	3,987,053		3,797,979		77,437		111,637	
2024	3,542,137		3,339,024		72,923		130,190	

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Note(s):
These data exclude nonprofit universities and colleges and federally funded research and development centers administered by nonprofit organizations. Detail may not add to total because of rounding.

Source(s):
National Center for Science and Engineering Statistics and Census Bureau, Nonprofit Research Activities module of the Annual Business Survey.

Table 9. Persons working on R&D at nonprofit organizations, by employment status and type of nonprofit organization: FYs 2022–24

(Number)

Employment status	Type of nonprofit organization ^a															
	FY 2022								FY 2023							
	All organizations	Healthcare	Science and technology	Other nonprofit organizations	All organizations	Healthcare	Science and technology	Other nonprofit organizations	All organizations	Healthcare	Science and technology	Other nonprofit organizations	All organizations	Healthcare	Science and technology	Other nonprofit organizations
Organization employees working on R&D	198,389	128,134	57,235	13,020	177,925	110,412	55,323	12,191	163,828	96,196	52,486	15,146				
Contract employees working on R&D	13,155	6,242	3,762	3,152	13,225	6,540	5,008	1,677	13,276	5,994	4,718	2,563				
Volunteers working on R&D	37,538	1,958	10,626	24,954	43,780	2,703	11,654	29,423	40,783	1,838	11,802	27,144				

i = more than 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

^a Nonprofit organizations are classified using the 2022 North American Industry Classification System code that accounts for the majority of their payroll. This classification may differ from the National Taxonomy of Exempt Entities Core Codes system used by the Internal Revenue Service and National Center for Charitable Statistics.

Note(s):
These data exclude nonprofit universities and colleges and federally funded research and development centers administered by nonprofit organizations. Detail may not add to total because of rounding.

Source(s):
National Center for Science and Engineering Statistics and Census Bureau, Nonprofit Research Activities module of the Annual Business Survey.

Table 10. R&D employees of nonprofit organizations, by occupation category and type of nonprofit organization: FYs 2022–24

(Number)

Occupation category	Type of nonprofit organization ^a															
	FY 2022						FY 2023						FY 2024			
	All organizations	Healthcare	Science and technology	Other nonprofit organizations	All organizations	Healthcare	Science and technology	Other nonprofit organizations	All organizations	Healthcare	Science and technology	Other nonprofit organizations				
All R&D employees	198,389	128,134	57,235	13,020	177,925	110,412	55,323	12,191	163,828	96,196	52,486	15,146				
Researchers	89,512	56,475	25,585	7,451	78,081	44,991	26,858	6,233	69,490	36,660	25,349	7,481				
Technicians	68,072	46,581	18,438	3,053	63,818	43,518	17,190	3,110	57,406	37,734	15,282	4,390				
Other support personnel	40,805	25,078	13,212	2,515	36,026	21,903	11,275	2,848	36,932	21,802	11,855	3,275				

i = more than 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

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Note(s):
These data exclude nonprofit universities and colleges and federally funded research and development centers administered by nonprofit organizations. Detail may not add to total because of rounding.

Source(s):
National Center for Science and Engineering Statistics and Census Bureau, Nonprofit Research Activities module of the Annual Business Survey.

Table 11. Full-time equivalent R&D employees of nonprofit organizations, by occupation category and type of nonprofit organization: FYs 2022–24

(Number)

Occupation category	Type of nonprofit organization ^a															
	FY 2022					FY 2023					FY 2024					
	All organizations	Healthcare	Science and technology	Other nonprofit organizations		All organizations	Healthcare	Science and technology	Other nonprofit organizations		All organizations	Healthcare	Science and technology	Other nonprofit organizations		
All full-time equivalent R&D employees	136,206	79,210	47,168	9,828		143,650	83,692	50,068	9,890		125,555	68,188	46,933	10,434		
Researchers	60,574	32,767	22,152	5,655		64,459	34,644	24,545	5,270		54,280	25,716	22,921	5,643		
Technicians	48,256	30,420	15,554	2,282		51,364	33,489	15,428	2,447		43,759	27,423	13,566	2,769		
Other support personnel	27,376	16,023	9,462	1,891		27,828	15,559	10,096	2,173		27,517	15,049	10,447	2,021		

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Note(s):
These data exclude nonprofit universities and colleges and federally funded research and development centers administered by nonprofit organizations. Detail may not add to total because of rounding.

Source(s):
National Center for Science and Engineering Statistics and Census Bureau, Nonprofit Research Activities module of the Annual Business Survey.

Table 12. Capital expenditures at R&D-performing organizations, by type of nonprofit organization: FYs 2022–24

(Dollars in thousands)

Type of expenditure	Type of nonprofit organization ^a															
	FY 2022						FY 2023						FY 2024			
	All organizations	Healthcare	Science and technology		Other nonprofit organizations		All organizations	Healthcare	Science and technology		Other nonprofit organizations		All organizations	Healthcare	Science and technology	Other nonprofit organizations
Total capital expenditures	37,673,060	33,668,837	950,874		3,053,350		41,871,468	38,338,510	1,651,282		1,881,676		41,306,293	36,879,621	1,706,537	2,720,135
R&D capital expenditures	971,991	446,644	487,135		38,213		1,773,054	441,544	1,212,961		118,549		1,950,559	521,631	1,239,811	189,117

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Note(s):
These data exclude nonprofit universities and colleges and federally funded research and development centers administered by nonprofit organizations. Detail may not add to total because of rounding.

Source(s):
National Center for Science and Engineering Statistics and Census Bureau, Nonprofit Research Activities module of the Annual Business Survey.

Table 13. Total capital expenditures for R&D: FYs 2022–24

(Dollars in thousands)

Type of expenditure	Type of nonprofit organization ^a													
	FY 2022					FY 2023					FY 2024			
	All organizations	Healthcare	Science and technology	Other nonprofit organizations		All organizations	Healthcare	Science and technology	Other nonprofit organizations		All organizations	Healthcare	Science and technology	Other nonprofit organizations
Total R&D capital expenditures	971,991	446,644	487,135	38,213		1,773,054	441,544	1,212,961	118,549		1,950,559	521,631	1,239,811	189,117
Land acquisition	7,041	0	6,734	307		44,661	0	44,661	0		34,255	264	33,991	0
Buildings and land improvement	342,648	196,398	143,880	2,370		813,048	255,071	497,290	60,687	r	701,866	102,511	531,484	67,870
Equipment	422,556	207,442	189,573	25,541		634,227	183,694	408,073	42,460		941,634	413,218	441,877	86,538
Capitalized software	26,689	5,030	12,319	9,340		27,987	1,279	11,395	15,312		48,860	4,868	10,185	33,807
All other capital expenditures	173,057	37,775	134,628	654		253,131	1,499	251,541	90		223,945	770	222,273	902

i = more than 50% of the estimate is a combination of imputation and reweighting to account for nonresponse; r = relative standard error > 50%.

^a Nonprofit organizations are classified using the 2022 North American Industry Classification System code that accounts for the majority of their payroll. This classification may differ from the National Taxonomy of Exempt Entities Core Codes system used by the Internal Revenue Service and National Center for Charitable Statistics.

Note(s):
These data exclude nonprofit universities and colleges and federally funded research and development centers administered by nonprofit organizations. Detail may not add to total because of rounding.

Source(s):
National Center for Science and Engineering Statistics and Census Bureau, Nonprofit Research Activities module of the Annual Business Survey.

Table 14. Total expenses of nonprofit organizations with R&D activity, by state: FYs 2022–24

(Dollars in thousands)

State	FY 2022	FY 2023	FY 2024
All states	857,790,377	946,671,140	934,712,782
Alabama	235,129	1,165,904	163,544
Alaska	1,661,943	1,878,897	869,254
Arizona	20,340,602	22,331,555 i	21,949,299 i
Arkansas	1,161,592	1,225,549	3,453,478
California	170,689,045	174,106,512	195,542,792
Colorado	3,081,709	1,445,978	1,648,275
Connecticut	1,951,755	13,600,629	5,467,738
Delaware	S	68,077	3,608,948
District of Columbia	11,269,503	9,537,901	6,952,305
Florida	28,587,097	34,731,470	33,903,330
Georgia	12,563,633	13,945,101	15,464,120
Hawaii	775,657	801,078	809,660
Idaho	5,102,116	5,515,522	5,845,927
Illinois	51,654,548	55,638,633 i	41,179,908
Indiana	1,385,866	14,811,546	14,822,187
Iowa	18,788	74,433	238,307
Kansas	23,819	1,123,865	1,227,759
Kentucky	2,391,908	16,967,608	15,401,823
Louisiana	12,045,721	11,217,921	2,819,724
Maine	6,895,327	6,019,720	7,008,277
Maryland	6,592,652	6,058,483	6,069,112
Massachusetts	47,648,706	51,891,615	46,424,577
Michigan	43,903,026	41,700,491	51,414,258
Minnesota	28,827,717	29,518,241	31,519,496
Mississippi	41,926	1,778,772	1,825,471
Missouri	16,365,883	28,504,847	33,169,642
Montana	90,195	8,200,503	3,641,881
Nebraska	1,452,978	4,500,111	6,517,953
Nevada	2,096,646	2,273,936	2,375,124
New Hampshire	2,946,101	3,249,586	1,486,437
New Jersey	11,413,859	33,984,355	15,193,509
New Mexico	40,443	260,239	185,120
New York	58,095,694	52,081,831	47,824,900
North Carolina	34,372,092	9,279,358	18,517,247
North Dakota	17,134	981,048	26,301
Ohio	46,422,072	45,764,108	47,168,606
Oklahoma	3,479,184	3,926,099	4,414,503
Oregon	3,012,159	3,451,181	3,852,329
Pennsylvania	23,755,956	24,189,847	23,050,415
Rhode Island	3,890,974	7,067,284	2,614,234
South Carolina	8,872,151	7,894,359	10,023,853
South Dakota	8,625,870	1,367,154	1,363,418
Tennessee	9,203,053	7,342,702	8,242,671
Texas	33,099,081	31,706,227	38,187,188
Utah	10,498,130	19,574,307	20,508,636
Vermont	9,567	42,839	132,512
Virginia	22,801,674	28,758,444	32,729,921
Washington	88,128,656	70,616,069	72,061,963
West Virginia	52,591	1,004,036	1,351,243
Wisconsin	10,183,280	33,153,213	24,403,630
Wyoming	15,169	341,961	39,976

i = more than 50% of the estimate is a combination of imputation and reweighting to account for nonresponse. S = suppressed for reliability; estimate does not meet publication standards because of high sampling variability, poor response quality, or other concerns about the estimate quality.

Note(s):

These data exclude nonprofit universities and colleges and federally funded research and development centers administered by nonprofit organizations. Detail may not add to total because of rounding.

Source(s):

National Center for Science and Engineering Statistics and Census Bureau, Nonprofit Research Activities module of the Annual Business Survey.

Table 15. Employees of nonprofit organizations with R&D activity, by state: FYs 2022–24

(Number)

State	FY 2022	FY 2023	FY 2024
All states	3,258,449	3,987,053	3,542,137
Alabama	1,453	7,325	444
Alaska	7,441	8,682	4,135
Arizona	96,304	96,612	97,950
Arkansas	9,371	9,865	21,337
California	332,058	328,453	335,890
Colorado	14,788	7,034	8,206
Connecticut	11,234	65,359	19,794
Delaware	S	149	16,097
District of Columbia	20,739	29,825	16,195
Florida	158,937	183,960	167,315
Georgia	61,074	68,102	72,699
Hawaii	2,690	2,689	2,491
Idaho	20,022	22,140	25,272
Illinois	212,761	241,317	158,476
Indiana	15,929	77,412	74,899
Iowa	140	184	450
Kansas	192	7,128	6,611
Kentucky	11,489	65,212	73,524
Louisiana	46,519	39,084	16,823
Maine	34,198	32,109	35,241
Maryland	47,637	39,477	25,850
Massachusetts	181,504	227,095	164,522
Michigan	191,008	246,336	263,131
Minnesota	161,309	171,204	170,075
Mississippi	421	11,132	11,033
Missouri	85,567	142,074	132,198
Montana	4,201	13,539	16,754
Nebraska	7,219	17,564	22,580
Nevada	8,602	9,528	8,942
New Hampshire	13,051	11,876	9,639
New Jersey	41,802	150,343	67,074
New Mexico	216	1,185	831
New York	223,356	219,687	186,875
North Carolina	45,742	37,293	95,879
North Dakota	87	4,561	118
Ohio	258,197	372,359	276,174
Oklahoma	14,021	14,396	14,718
Oregon	15,605	15,026	17,327
Pennsylvania	100,984	113,631	97,804
Rhode Island	24,616	36,968	11,649
South Carolina	42,377	43,274	41,237
South Dakota	39,421	7,959	7,487
Tennessee	45,133	48,285	55,761
Texas	139,179	133,036	149,103
Utah	53,858	79,783	83,665
Vermont	57	339	597
Virginia	65,207	89,565	91,208
Washington	345,879	253,814	255,773
West Virginia	181	2,429	4,808
Wisconsin	44,542	180,381	105,297
Wyoming	131	271	175

i = more than 50% of the estimate is a combination of imputation and reweighting to account for nonresponse. S = suppressed for reliability; estimate does not meet publication standards because of high sampling variability, poor response quality, or other concerns about the estimate quality.

Note(s):

These data exclude nonprofit universities and colleges and federally funded research and development centers administered by nonprofit organizations. Employees are categorized by state based on the location of the organization headquarters. Detail may not add to total because of rounding.

Source(s):

National Center for Science and Engineering Statistics and Census Bureau, Nonprofit Research Activities module of the Annual Business Survey.

Table 16. Total expenditures for R&D performed by nonprofit organizations, by state and source of funds: FYs 2022–24

(Dollars in thousands)

State	FY 2022				FY 2023				FY 2024			
	All R&D expenditures	Internal funds	Federal government	All other sources of funds	All R&D expenditures	Internal funds	Federal government	All other sources of funds	All R&D expenditures	Internal funds	Federal government	All other sources of funds
All states	28,052,093	7,568,079	11,648,446	8,835,568	30,816,896	8,375,967	12,353,301	10,087,629	29,448,982	8,594,351	11,162,065	9,692,565
Alabama	97,750	1,786	63,850	32,114	84,049	733	26,815	56,501	49,452	3,513	33,190	12,748
Alaska	16,387	5	15,424	959	30,856	34	19,108	11,714	14,465	528	12,420	1,517
Arizona	186,604	19,598	82,928	84,078	190,743	26,124	81,646	82,973	196,544	29,580	105,385	61,579
Arkansas	43,463	478	31,773	11,212	50,844	379	37,510	12,955	64,266	6,731	41,012	16,523
California	3,054,684	539,150	1,661,575	853,960	3,729,831	939,119	1,564,667	1,226,044	4,083,805	1,076,484	1,714,989	1,292,331
Colorado	334,398	29,091	92,383	212,924	252,518	12,364	79,544	160,610	169,325	18,749	75,182	75,393
Connecticut	116,386	52,916	28,873	34,597	131,815	50,642	42,230	38,943	99,975	7,211	23,585	69,179
Delaware	S	S	S	S	1,654	0	0	1,654	20,028	7,009	5,597	7,421
District of Columbia	1,098,218	385,830	213,518	498,870	1,527,036	413,738	358,368	754,930	1,206,811	270,313	299,517	636,981
Florida	517,798	90,578	205,644	221,577	636,848	91,576	244,705	300,567	456,801	92,315	151,611	212,874
Georgia	99,423	33,296	13,001	53,127	115,133	29,166	11,872	74,095	105,583	32,428	13,383	59,772
Hawaii	25,992	13,308	8,979	3,705	34,890	7,050	8,934	18,906	31,273	3,254	8,753	19,265
Idaho	14,314	3,269	2,644	8,401	10,674	572	1,393	8,709	11,399	1,202	1,348	8,850
Illinois	621,542	322,365	99,970	199,207	506,278	133,817	221,368	151,093	525,214	126,417	169,360	229,438
Indiana	19,131	15,962	45	3,125	22,861	10,602	385	11,873	26,344	15,371	128	10,845
Iowa	8,499	5,249	2,569	681	5,721	65	4,795	862	6,247	4,904	944	399
Kansas	9,038	5,871	80	3,087	19,965	12,425	690	6,850	17,073	8,955	842	7,276
Kentucky	4,553	2,909	56	1,587	62,397	27,129	1,398	33,871	127,130	28,695	51,092	47,343
Louisiana	71,125	34,899	29,332	6,894	77,711	7,633	53,602	16,477	34,367	2,947	8,240	23,180
Maine	308,582	65,949	162,993	79,640	274,686	70,583	172,641	31,462	288,780	83,708	165,264	39,808
Maryland	1,603,807	954,914	567,031	81,862	1,853,123	1,255,056	511,706	86,361	2,032,972	1,357,793	592,202	82,977
Massachusetts	5,791,608	1,055,992	2,674,160	2,061,456	7,327,610	1,256,117	3,551,204	2,520,289	6,391,439	1,261,592	2,656,934	2,472,913
Michigan	200,832	72,218	81,649	46,964	142,153	45,035	64,948	32,169	271,912	93,159	110,779	67,974
Minnesota	1,440,000	571,325	78,679	789,997	1,553,388	662,034	55,440	835,914	1,686,524	713,107	63,254	910,163
Mississippi	818	0	818	0	2,945	403	0	2,542	1,460	320	15	1,125
Missouri	124,882	46,094	33,010	45,778	138,246	56,201	38,692	43,353	140,315	63,639	39,204	37,472
Montana	9,369	47	2,151	7,170	9,669	2,109	1,050	6,510	7,187	1,287	565	5,336
Nebraska	65,969	3,113	62,073	783	17,622	7,700	9,189	733	25,588	9,147	15,748	693
Nevada	14,867	5,653	4,534	4,679	11,687	394	1,839	9,453	11,831	246	1,797	9,788
New Hampshire	46,228	9,023	17,786	19,420	62,416	21,513	19,180	21,724	59,777	1,055	19,337	39,385
New Jersey	307,198	143,594	40,765	122,838	194,713	54,016	64,663	76,034	109,562	61,404	14,664	33,494
New Mexico	23,274	5,650	9,127	8,497	98,971	14,192	41,683	43,097	157,521	12,456	68,659	76,405
New York	3,290,088	1,135,545	939,077	1,215,465	3,223,471	1,162,493	998,549	1,062,430	2,121,759	780,736	647,314	693,709
North Carolina	1,202,472	56,067	976,563	169,842	1,081,255	8,221	932,219	140,815	1,214,412	37,005	1,020,364	157,043
North Dakota	657	593	0	65	1,763	1,392	0	371	1,170	199	0	971

Table 16. Total expenditures for R&D performed by nonprofit organizations, by state and source of funds: FYs 2022–24

(Dollars in thousands)

State	FY 2022				FY 2023				FY 2024			
	All R&D expenditures	Internal funds	Federal government	All other sources of funds	All R&D expenditures	Internal funds	Federal government	All other sources of funds	All R&D expenditures	Internal funds	Federal government	All other sources of funds
Ohio	1,584,179	579,804	675,390	328,984	1,841,399	690,670	800,567	350,163	1,851,823	662,649	724,300	464,875
Oklahoma	98,327	1,697	53,052	43,578	104,916	8,691	50,213	46,012	152,272	33,243	64,637	54,392
Oregon	31,162	1,009	14,646	15,507	38,097	2,853	10,713	24,531	39,050	3,814	16,779	18,457
Pennsylvania	737,023	220,080	301,294	215,649	920,254	186,486	451,940	281,829	942,159	283,340	418,237	240,582
Rhode Island	130,165	8,241	72,929	48,995	167,762	51,051	63,156	53,556	59,601	1,475	39,699	18,427
South Carolina	31,336	264	11,704	19,368	85,421	1,901	16,825	66,696	14,663	2,578	4,738	7,347
South Dakota	12,712	0	0	12,712	3,834	0	667	3,167	11,166	6,006	997	4,162
Tennessee	599,601	435,578	128,531	35,491	751,134	516,261	157,342	77,531	807,076	614,484	155,206	37,385
Texas	1,313,784	109,282	624,480	580,021	1,455,184	128,315	679,099	647,770	1,598,559	207,250	675,330	715,979
Utah	20,073	1,994	11,946	6,133	30,611	2,577	13,604	14,430	37,294	1,328	12,597	23,369
Vermont	999	0	999	0	7,548	0	2,790	4,758	12,047	2,019	7,534	2,495
Virginia	785,659	135,115	531,876	118,668	766,587	108,934	417,189	240,465	803,112	89,664	468,611	244,837
Washington	1,536,003	290,919	821,631	423,452	941,699	224,328	403,573	313,798	1,129,595	408,858	377,593	343,144
West Virginia	28,494	515	11,226	16,753	8,433	350	7,405	677	11,536	1,910	8,489	1,137
Wisconsin	372,088	101,167	185,345	85,576	207,969	72,834	55,809	79,326	204,779	60,040	54,402	90,337
Wyoming	529	74	335	120	507	89	378	39	5,938	2,230	239	3,469

i = more than 50% of the estimate is a combination of imputation and reweighting to account for nonresponse. S = suppressed for reliability; estimate does not meet publication standards because of high sampling variability, poor response quality, or other concerns about the estimate quality.

Note(s):
These data exclude nonprofit universities and colleges and federally funded research and development centers administered by nonprofit organizations. Detail may not add to total because of rounding.

Source(s):
National Center for Science and Engineering Statistics and Census Bureau, Nonprofit Research Activities module of the Annual Business Survey.

Table 17. Funds provided by nonprofit organizations to others for R&D, by state: FYs 2022–24

(Dollars in thousands)

State	FY 2022	FY 2023	FY 2024
All states	8,277,041	7,942,861	10,524,372
Alabama	9,305	3,133	1,824
Alaska	5,407	10,993	8,078
Arizona	28,432	26,680	41,933
Arkansas	2,007	0	1,130
California	709,614	795,884	1,051,036
Colorado	106,878	31,001	41,233
Connecticut	7,984	17,116	14,966
Delaware	S	2,156	9,491
District of Columbia	380,556	233,726	279,509
Florida	30,918	50,489	211,448
Georgia	212,781	200,912	227,755
Hawaii	383	1,886	2,301
Idaho	474	3,856	1,093
Illinois	370,155	363,019	408,131
Indiana	282	1,237	57,827
Iowa	7,897	4,024	36,874
Kansas	789	1,504	884
Kentucky	0	704	18,617
Louisiana	35,496	97,790	20,242
Maine	25,939	19,565	21,792
Maryland	314,813	690,461	697,212
Massachusetts	579,112	717,514	720,683
Michigan	36,469	36,797	117,643
Minnesota	44,368	47,553	82,121
Mississippi	0	0	17
Missouri	72,729	74,299	164,757
Montana	941	1,461	3,949
Nebraska	17,116	42,847	54,572
Nevada	5,328	0	5,584
New Hampshire	8,029	8,641	8,638
New Jersey	64,487	148,311	165,637
New Mexico	1,440	292	320
New York	1,642,248	1,150,941	1,278,833
North Carolina	497,963	127,108	331,433
North Dakota	0	34	0
Ohio	109,919	153,995	171,742
Oklahoma	5,414	36,105	20,847
Oregon	2,943	3,973	4,830
Pennsylvania	463,874	373,016	535,558
Rhode Island	5,692	18,385	13,195
South Carolina	8,419	14,597	11,061
South Dakota	0	0	875
Tennessee	44,110	47,045	179,404
Texas	358,670	325,472	419,899
Utah	25,914	2,173	48,878
Vermont	0	1,409	961
Virginia	168,934	267,175	195,086
Washington	1,779,421	1,735,437	2,745,886
West Virginia	0	12,188	38,038
Wisconsin	83,060	35,994	46,116
Wyoming	331	3,961	4,435

S = suppressed for reliability; estimate does not meet publication standards because of high sampling variability, poor response quality, or other concerns about the estimate quality.

Note(s):

These data exclude nonprofit universities and colleges and federally funded research and development centers administered by nonprofit organizations. Detail may not add to total because of rounding.

Source(s):

National Center for Science and Engineering Statistics and Census Bureau, Nonprofit Research Activities module of the Annual Business Survey.

Table 18. Persons working on R&D at nonprofit organizations, by state: FYs 2022–24

(Number)

State	FY 2022		FY 2023		FY 2024	
All states	198,389		177,925		163,828	
Alabama	774		295		276	
Alaska	163		351		127	
Arizona	1,217		1,201		1,135	
Arkansas	165		191		243	
California	20,111		18,981		21,821	
Colorado	1,621		1,307		1,415	
Connecticut	593		563		523	
Delaware	S		46		190	
District of Columbia	5,288		7,577		5,136	
Florida	6,335	i	6,386	i	3,164	
Georgia	751		777		701	
Hawaii	188		220		179	
Idaho	316		264		300	
Illinois	2,668		5,335		3,860	
Indiana	106		247		226	
Iowa	49		62		81	
Kansas	140		197		139	
Kentucky	54		526		854	
Louisiana	783		540		204	
Maine	2,165		1,496		1,440	
Maryland	7,246		7,553	i	7,491	
Massachusetts	38,309		36,311		31,773	
Michigan	1,874		933		1,488	
Minnesota	19,919	i	14,539	i	15,233	i
Mississippi	14		51		24	
Missouri	1,524	i	829		1,472	i
Montana	73		129		134	
Nebraska	137		114		124	
Nevada	108		63		67	
New Hampshire	399		786		677	
New Jersey	1,525		1,740		905	
New Mexico	145		552		545	
New York	29,499	i	16,885	i	10,150	
North Carolina	6,898		5,771		5,682	
North Dakota	10		15		27	
Ohio	11,428		10,762		10,625	
Oklahoma	709		698		901	
Oregon	408		561		517	
Pennsylvania	3,659		8,733		7,836	
Rhode Island	2,669		2,098	i	1,206	
South Carolina	472		905		301	
South Dakota	143		46		105	
Tennessee	3,628		3,260		3,301	
Texas	5,621		6,082		6,587	
Utah	555		644		656	
Vermont	1		88		79	
Virginia	6,160		4,286		5,109	
Washington	9,558		5,139		5,927	
West Virginia	159		57		393	
Wisconsin	2,047		1,726		2,460	
Wyoming	2		5		21	

i = more than 50% of the estimate is a combination of imputation and reweighting to account for nonresponse. S = suppressed for reliability; estimate does not meet publication standards because of high sampling variability, poor response quality, or other concerns about the estimate quality.

Note(s):

These data exclude nonprofit universities and colleges and federally funded research and development centers administered by nonprofit organizations. Employees are categorized by state based on the location of the organization headquarters. Detail may not add to total because of rounding.

Source(s):

National Center for Science and Engineering Statistics and Census Bureau, Nonprofit Research Activities module of the Annual Business Survey.

Table 19. Full-time equivalent R&D employees of nonprofit organizations, by state: FYs 2022–24

(Number)

State	FY 2022		FY 2023		FY 2024	
All states	136,206		143,650		125,555	
Alabama	467		284		176	
Alaska	148		315		120	
Arizona	961		1,055		1,009	
Arkansas	92		78		174	
California	11,704		16,029		18,268	
Colorado	1,521		1,196		1,149	
Connecticut	388		448		337	
Delaware	S		37		133	
District of Columbia	4,600		6,565		4,606	
Florida	4,171	i	5,597	i	2,237	
Georgia	590		657		573	
Hawaii	171		190		162	
Idaho	193		137		216	
Illinois	1,886		4,428		2,666	
Indiana	102		183		181	
Iowa	43		59		61	
Kansas	139		179		110	
Kentucky	40		461		687	
Louisiana	743		521		156	
Maine	1,479		1,490		1,379	
Maryland	6,698		7,182	i	6,787	
Massachusetts	24,365		24,932		21,672	
Michigan	1,415		711		1,114	
Minnesota	12,269	i	10,368	i	8,054	i
Mississippi	12		35		16	
Missouri	943	i	604		895	i
Montana	68		62		96	
Nebraska	113		91		94	
Nevada	69		55		55	
New Hampshire	133		308		282	
New Jersey	1,214		1,320		622	
New Mexico	132		516		488	
New York	13,949		15,609	i	8,690	
North Carolina	5,415		5,023		5,148	
North Dakota	10		13		5	
Ohio	9,120		8,451		9,009	
Oklahoma	702		696		896	
Oregon	273		456		385	
Pennsylvania	3,306		6,668		6,033	
Rhode Island	2,049		1,535	i	926	
South Carolina	401		563		195	
South Dakota	143		38		94	
Tennessee	3,427		2,962		2,977	
Texas	5,418		5,808		6,306	
Utah	316		344		264	
Vermont	1		57		62	
Virginia	4,674		3,594		3,680	
Washington	8,092		4,421		5,144	
West Virginia	120		46		24	
Wisconsin	1,919		1,266		1,123	
Wyoming	2		4		20	

i = more than 50% of the estimate is a combination of imputation and reweighting to account for nonresponse. S = suppressed for reliability; estimate does not meet publication standards because of high sampling variability, poor response quality, or other concerns about the estimate quality.

Note(s):

These data exclude nonprofit universities and colleges and federally funded research and development centers administered by nonprofit organizations. Employees are categorized by state based on the location of the organization headquarters. Detail may not add to total because of rounding.

Source(s):

National Center for Science and Engineering Statistics and Census Bureau, Nonprofit Research Activities module of the Annual Business Survey.

Technical Notes

Survey Overview (FY 2024 Survey Cycle)

Purpose. The Nonprofit Research Activities (NPRA) module of the Annual Business Survey collects information on research and experimental development (R&D) performed or funded by private nonprofit organizations as defined in the Frascati Manual. Private nonprofit R&D organizations are tax-exempt nonprofit organizations whose R&D is not controlled by institutes of higher education, governments, or businesses.

NCSES combines nonprofit sector data with data from the other sectors to estimate total national R&D expenditures. Results of the research activities data collected from nonprofit organizations will be used to report updated, valid, and reliable estimates of U.S. nonprofit R&D in [National Patterns of R&D Resources](#) and the Bureau of Economic Analysis system of national accounts.

The data collected will also be incorporated into the congressionally mandated biennial report, [Science and Engineering Indicators](#). The R&D data from the nonprofit module will be reported in the Organisation for Economic Cooperation and Development (OECD) periodic publications and used for international comparisons of R&D efforts. NCSES also anticipates professional associations will use data from the nonprofit R&D module. Likely users in this category include, but are not limited to, the Science Philanthropy Alliance, the Association of Independent Research Institutes, and the Health Research Alliance.

Data collection authority. Title 13, United States Code, Sections 8(b), 131, and 182; Title 42, United States Code, Section 1861-76 (NSF Act of 1950, as amended); and Section 505 within the America COMPETES Reauthorization Act of 2010, authorize this collection. Sections 224 and 225 of Title 13 require mandatory response. Office of Management and Budget No. 0607-1004. The disclosure review number is NCSES-DRN26-032.

Survey sponsor. NCSES within NSF.

Survey collection and tabulation agent. The survey is conducted annually by the Census Bureau in accordance with an interagency agreement with NCSES.

Key Survey Information

Frequency. Annual.

Initial survey year. FY 2020. (The questions in the FY 2020 module were first developed and used on the FY 2016 Nonprofit Research Activities Survey, which was the first national survey of R&D activities in the U.S. nonprofit population since 1997. Due to the differences between the surveys prior to FY 2020 and the current module, FY 2020 is considered the initial survey year for the annual series.)

Reference period. FY 2024. The fiscal year referred to throughout this report was the nonprofit organizations' fiscal year; for the majority of organizations reporting R&D performance, this fiscal year ended in either September or December 2024.

Response unit. Organizations.

Sample or census. Sample.

Population size. 20,500 organizations.

Sample size. 8,000 organizations.

Survey Design

Target population. Included are all nonfarm organizations with at least one in-scope location filing Internal Revenue Service (IRS) Form 990 as a tax-exempt organization and with an annual payroll of \$500,000 or more.

Sampling frame. The sampling frame was constructed from the final 2023 Business Register and the Exempt Organizations Business Master File Extract (EO BMF). The Business Register is the Census Bureau's comprehensive database of U.S. businesses. Business Register data are compiled from business tax returns, data collected from the economic census, and other Census Bureau surveys. The Business Register includes sole proprietorships, partnerships, and corporations reporting business activity to the IRS. The EO BMF is a publicly available list from the IRS of all organizations that are exempt from filing federal income taxes. Both files collect data at the establishment level; organizations may have multiple establishments.

The Business Register contains establishments that are out of scope for the nonprofit R&D module. These establishments are removed from the sampling universe. They include:

- Establishments engaged in the following [North American Industry Classification System](#) (NAICS) industries:
 - 110000, 111, or 112 - Agriculture production
 - 482 - Railroads
 - 491 - U.S. Postal Service
 - 521 - Monetary authorities – central bank
 - 525 - Funds, trusts, and other financial vehicles
 - 8131, 8134 - Religious and civic organizations
 - 814 - Private households
 - 92 - Public administration
- The NCSES and the Census Bureau have identified the following additional NAICS with no expectations of funding or performing nonprofit R&D activities, and they were removed from the sampling universe starting in FY 2024. This removal resulted in a reduction of the population size from around 45,000 organizations to 20,500 organizations. Because nonprofits in these categories reported negligible R&D expenditures in previous surveys, this reduction has no effect on the trend comparability of prior years.
 - 515 - Broadcasting
 - 517 - Telecommunications
 - 5411 - Legal services
 - 6213 - Offices of other health practitioners
 - 6216 - Home health care services
 - 621910 - Ambulance services
 - 623 - Nursing and residential care facilities
 - 6241 - Individual and family services
 - 6242 - Community food and housing, and emergency and other relief services
 - 6243 - Vocational rehabilitation services

- 6244 - Child care services
- 711 - Performing arts, spectator sports, and related industries
- 713 - Amusement, gambling, and recreation industries
- 812 - Personal and laundry services
- 813930 - Labor unions and similar labor organizations
- Establishments located in American Samoa, Northern Mariana Islands, Guam, Puerto Rico, or U.S. Virgin Islands
- Establishments belonging to foreign entities
- Government establishments
- Establishments with zero payroll and zero employment
- For-profit establishments or nonprofit establishments within multi-establishment organizations that have a majority of organization payroll in for-profit establishments

Information on industry classification, receipts, payroll, and employment was extracted from the Business Register during the sampling frame construction. Nonprofit status for each establishment was determined by matching the Business Register to the IRS nonprofit list.

The sampling frame is stratified by primary type of organization, primary nonprofit activity, and state. Details on how organization-level sampling units are assigned to these strata follow.

The sample is selected at the organization level, so organizations with multiple establishments were combined into one organization-level unit for sampling. Organization payroll, receipts, and employment are set to the respective sums across all establishments within the organization.

Organizations with multiple establishments are assigned a single industry classification using a hierarchical system based on the largest payroll. For NAICS, the hierarchy is largest payroll sector, largest payroll 3-digit NAICS (within the largest sector), largest payroll 4-digit NAICS (within the largest 3-digit), and largest payroll 6-digit NAICS (within the largest 4-digit). For organization National Taxonomy of Exempt Entities (NTEE) code, the hierarchy is the first letter of the NTEE code with the largest payroll then the largest payroll of the full 3 characters of the NTEE code.

After organization-level units are created and organization-level codes are assigned, organizations are removed from the sampling frame if any of the following are true:

- Primary activity is identified as any of the following:
 - Education services (NAICS sector 61 or NTEE code starting with "B")
 - Housing and shelter (NTEE begins with "L" except those with last 2 digits of "05")
 - Recreation and sports (NTEE begins with "N" except those with last 2 digits of "05")
 - Youth development (NTEE begins with "O" except those with last 2 digits of "05")
 - Religion-related (NTEE begins with "X" except those with last 2 digits of "05")
 - Mutual benefit (NTEE begins with "Y" except those with last 2 digits of "05")
- The organization is also in the Business Enterprise Research and Development (BERD) Survey sampling frame.
- Organization payroll is less than \$500,000 annually.

Education services organizations are out of scope because the R&D for those organizations is measured by the Higher Education Research and Development (HERD) Survey. Organizations also in the BERD Survey sampling frame are removed because their R&D is measured by the BERD Survey. The remaining criteria identify other organizations that are unlikely to perform R&D activities, and these organizations are removed.

All records in the nonprofit sample universe are assigned a primary nonprofit activity stratum as follows:

- If the organization's NAICS code begins with "62" or the first character of NTEE is "E" then its stratum is set to "AB" (Healthcare).
- Else if the NAICS code begins with "5417" then its stratum is set to "C" (Science and technology).
- Remaining unclassified organizations have their stratum set to "D" (Other).

Sample design. The nonprofit R&D frame is stratified by state and primary type of organization (healthcare, science and technology, and all other organizations) ([table A-1](#)). Specifically, the type of organization stratification happens within a state. This makes 153 total stratification levels: 51 states including Washington, D.C., and 3 primary types of organizations. Within these strata, some nonprofits were selected with certainty based on the following criteria:

- Organizations with known R&D activity (1,600 organizations)
- Organizations larger than stratum-specific payroll cutoffs (500 organizations)

The nonprofit R&D sample consisted of 8,000 organizations, and 2,100 were selected with certainty.

The remaining 5,900 noncertainty cases were selected using systematic stratified random sample selection, with a maximum base sample weight of 3.2.

Data Collection and Processing Methods

Data collection. The survey was mailed to 8,000 nonprofit organizations in July 2025. The organizations were sent a letter informing them of their requirement to report under Title 13, United States Code, Sections 224 and 225. The letter also provided instructions on accessing and submitting the survey online. There were three mail follow-ups and four email follow-ups conducted to increase response. The collection period closed on 31 January 2026.

Mode. The data were collected using an electronic instrument.

Response rates.

- *Check-in rate.* The check-in rate is defined as the number of organizations that submitted surveys divided by the total number of all organizations in the sample (sample size). Response to individual questions did not factor into this metric. At the close of the collection period, the check-in rate was 82% ([table A-2](#)).
- *Unit response rate (URR).* For this survey, the unit response is defined as an organization providing total expenses or employment and answering the R&D performed and R&D funded questions. URR is the ratio between the number of unit respondents in a sample (numerator) and the total sample size (denominator), expressed as a percentage. The URR was 78% ([table A-3](#)).
- *Item response rates.* The distribution of values reported by sample organizations in the nonprofit module is highly skewed. Thus, rather than report unweighted item response rates, total quantity response rates are calculated, which are based on weighted data.

- *Total quantity response rate (TQRR)*. For a given published estimate other than count or ratio estimates, TQRR is the percentage of the weighted estimate based on reported data (including data obtained from other sources determined to be equivalent in quality to reported data) and weighted by sampling but not nonresponse weights. This calculation is appropriate for the nonprofit module because a few organizations contribute a large share of total R&D expenditures. The TQRR for total expenditures for R&D performed by nonprofit organizations in the United States in 2024 was 77%.
- *Total quantity nonresponse rate (TQNR)*. For a given published estimate, TQNR, defined as 100% minus TQRR, is calculated for each tabulation cell from the nonprofits, except for cells that contain count or ratio estimates. TQNR measures the combined effect of the procedures used to handle unit and item nonresponse on the weighted nonprofit estimates. Detailed imputation rates are available upon request.

Data editing. Prior to tabulating the data, response data were reviewed and edited with both automated and manual procedures to correct detectable reporting errors. R&D data were tabulated for records reporting \$50,000 or more in R&D expenditures.

Survey analysts reviewed the R&D data reported by the respondents. The data were evaluated by calculating the reported R&D expenses to expense ratios and reviewing the organization's website information.

Additional reporting errors were detected and corrected using an automated data edit system designed to review the data for reasonableness and consistency. The editing process interactively corrected detected errors using standard procedures. Quality control techniques were used to verify that procedures were carried out as specified.

Imputation.

- *Item nonresponse.* If detailed R&D data was not reported by a nonprofit and could not be inferred by survey analysts, they were imputed in the same ratio as reported by other nonprofits in the same sample stratum. For example, if the average ratio of basic research, applied research, and experimental development was 20%, 50%, and 30%, respectively, for the sample stratum, that ratio was applied to complete the item for the nonresponding organization. These imputations are reflected in the reported imputation rates.
- *Unit nonresponse.* Estimates produced from the survey data include adjustments to account for organizations that did not respond to the survey (unit nonresponse). If available, data from public tax filings, annual reports, or audits were used to impute expenses and R&D for select nonprofits known to have performed large amounts of R&D based on public information or prior surveys. Otherwise, unit nonresponse is handled by adjusting weighted reported data as follows. Each organization's sampling weight is multiplied by a nonresponse adjustment factor. To calculate the adjustment factors, each organization in the sample that is eligible for tabulation is assigned to the adjustment cells. The adjustment cells for nonprofits are based on certainty or noncertainty sampling strata and industry sectors (healthcare, science and technology, and all other organizations). For a given adjustment cell, the nonresponse adjustment factor is the ratio of the sum of the sampling weights for all organizations included in the cell to the sum of the sampling weights for all organizations included in the cell with reported data. For the nonresponse adjustment, an organization is considered a respondent if it satisfies the definition of response as detailed in the *URR* section above.

Weighting. The survey data are weighted for sampling and unit nonresponse.

Industry classification. Nonprofit organizations are classified into one of three types of organization at the time of sampling: healthcare, science and technology, and all other organizations. Organizations are tabulated based on the classification at the time of sampling. Classification is based on both the 2022 NAICS and the NTEE. An NTEE code is not available for all organizations.

Variance estimation. This survey uses delete-a-group jackknife variance estimator. Note that certainty cases do not contribute to the sampling variance but do contribute to the overall variance estimation due to nonresponse adjustments. The delete-a-group jackknife variance estimator requires that every sampling stratum contains at least two sampled organizations. Sampling strata that do not meet this requirement are collapsed as needed to create a new set of variance estimation strata that satisfies this requirement.

Survey Quality Measures

The estimates produced from the NPRA module are subject to both sampling and nonsampling errors.

Sampling error. Sampling error is the difference between estimates obtained from the sample and results theoretically obtainable from a comparable complete enumeration of the sampling frame. This error results because only a subset of the sampling frame is measured in a sample survey. For published estimates from NPRA, relative standard errors (RSEs) are produced for all estimates. Tables of the estimated measures of sampling variability corresponding to each data table are available upon request.

Coverage error. Coverage error occurs when the sampling frame fails to completely enumerate the population of interest. There can be both undercoverage error, where organizations are not included in the frame, and overcoverage error, where organizations included in the frame are out of scope for the population of interest. The NPRA module uses the prior year's Business Register to construct the frame so any changes in organizations that would change the inclusion or exclusion of the organization to the survey scope could be sources of coverage error. Prior to tabulation, the survey unit's information is updated with the most recent available Business Register data to mitigate this source of error.

Another source of error involved incorrect inclusion of organizations already represented in different R&D data collections. The R&D expenditures of these respondents was set to 0 if it was determined their R&D was already represented in other NCSES surveys. These cases included nonprofit organizations managing federal laboratories and some university-affiliated hospitals.

Nonresponse error. Nonresponse error refers to the differences in key estimates between organizations in the sampling frame that were sampled for data collection and those that responded. For unit nonresponse, multiple follow-ups were conducted with nonresponding organizations to mitigate nonresponse error. The final survey weights incorporated nonresponse adjustments to mitigate nonresponse bias in the final estimates.

Nonresponse bias for survey estimates cannot be directly measured. However, the impact of nonresponse was incorporated into the variability of survey estimates using the assumption that the data is missing at random. Missing at random for this survey means that, conditional on the nonresponse adjustments, the propensity for an organization to respond is not related to R&D performance.

To minimize item nonresponse, organizations were encouraged to report estimates of expenditures when actual dollar amounts could not be provided. This approach reduces item nonresponse error risk but may introduce measurement error. Imputation was conducted to help mitigate item nonresponse error.

Measurement error. The most common source of measurement error was reporting in different units (e.g., reporting in whole dollars rather than in thousands of dollars). This was corrected during data processing.

Data Comparability

The questions in the FY 2020 module were first developed and used on the FY 2016 Nonprofit Research Activities Survey—which was the first national survey of R&D activities in the U.S. nonprofit population since 1997. Due to the differences in the surveys prior to FY 2020, those data are not comparable for trend analysis.

Definitions

Contract employees. Contract employees are individuals contracted to work on projects otherwise fully performed by organization staff.

Depreciation and amortization. Depreciation on tangible research assets, such as buildings or equipment, as well as amortization of intangible assets, such as patents.

Employment. Paid employment consists of full- and part-time employees, including salaried officers and executives of corporations who were on the payroll in the pay period including 12 March 2024. Included are employees on sick leave, holidays, and vacations; not included are proprietors and partners of unincorporated businesses.

Other support personnel. Staff who provide direct support services for the research project.

Research and experimental development (R&D). R&D is planned, creative work aimed at discovering new knowledge or devising new applications of available knowledge. This includes (1) activities aimed at acquiring new knowledge or understanding without specific immediate commercial applications or uses (basic research); (2) activities aimed at solving a specific problem or meeting a specific commercial objective (applied research); and (3) systematic use of research and practical experience and resulting in additional knowledge, which is directed to producing new or improved goods, services, or processes (experimental development). R&D includes both direct costs, such as salaries of researchers and administrative and overhead costs clearly associated with the organization's R&D. However, R&D does not include expenditures for routine product testing, quality control, and technical services unless they are an integral part of an R&D project. R&D also does not include market research; efficiency surveys or management studies; literary, artistic, or historical projects, such as films, music, or books and other publications; and prospecting or exploration for natural resources.

- *Basic research.* Activities aimed at acquiring new knowledge or understanding without specific immediate commercial applications or uses.
- *Applied research.* Activities aimed at solving a specific problem or meeting a specific commercial objective.
- *Experimental development.* Systematic work, drawing on research and practical experience and resulting in additional knowledge, which is directed to producing new products or processes or to improving existing products or processes.

Researchers. Professionals engaged in the conception or creation of new knowledge.

Research technicians. Staff who work under the supervision of researchers to conduct research activities.

Research volunteers. Unpaid workers contributing appreciable and essential activity to research performed by the organization. Their research skills should be comparable to the organization's employees. Individuals funded by other sources to conduct research at the organization are not considered volunteers.

Salaries, wages, and fringe benefits. Costs for all compensation and benefits of employees who are included in the total R&D expenditures reported.

Technical Tables

Table	Title
A-1	Organizations in the target population and selected for the sample, by industry: FY 2024
A-2	Response measures: FYs 2020–24
A-3	Unit response rates, by industry: FY 2024

Table A-1. Organizations in the target population and selected for the sample, by industry: FY 2024

(Number)

Industry	NAICS code	Organizations in target population ^a	Organizations selected for the sample	
			All organizations	Noncertainties
All industries	All	20,500	8,000	5,900
Healthcare	621, 622, 623	5,500	2,100	1,600
Science and technology	5417	700	650	150
Other	Other	14,500	5,300	4,200

NAICS = 2022 North American Industry Classification System.

^a Estimates of the number of organizations in the target population are based on the original sampling frame that was created to select the Nonprofit Research Activities FY 2024 module of the 2025 Annual Business Survey.

Note(s):

Numbers are rounded for disclosure protection purposes. Certainty organizations have a selection probability of one and a sampling weight of one and represent only themselves. Organizations are selected with certainty based on known R&D activities and larger than stratum-specific payroll cutoffs. Noncertainties are organizations with a probability of selection of less than one.

Source(s):

National Center for Science and Engineering Statistics and Census Bureau, Nonprofit Research Activities FY 2024 module of the 2025 Annual Business Survey.

Table A-2. Response measures: FYs 2020–24

(Percent)

Measure	2020	2021	2022	2023	2024
Check-in rate ^a	85	84	79	79	82
Response rate ^b	83	81	77	78	78

^a Check-in rate is the number of organizations who responded to the survey divided by the total number of organizations in the sample.
^b Response rate is the number of organizations that reported total expenses or employment and that answered the R&D performed and R&D funded questions divided by the total number of organizations in the sample.

Source(s):
National Center for Science and Engineering Statistics and Census Bureau, Nonprofit Research Activities module of the Annual Business Survey.

Table A-3. Unit response rates, by industry: FY 2024

(Number and percent)

Industry	NAICS code	Active reporting units (number) ^a	Reporting units that met the response criteria (%) ^b
All industries	All	8,000	78
Healthcare	621, 622, 623	2,100	76
Science and technology	5417	650	79
Other	Other	5,300	79

NAICS = 2022 North American Industry Classification System.

^a The number of active reporting units is the same as the number of organizations in the sample.

^b Reporting units are considered to have met the response criteria if they reported total expenses or employment and answered the R&D performed and R&D funded questions.

Source(s):

National Center for Science and Engineering Statistics and Census Bureau, Nonprofit Research Activities FY 2024 module of the 2025 Annual Business Survey.

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