

SECTION B.

DETAILED STATISTICAL TABLES

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Table 1. Academic science and engineering research space, by field: 1988-2001¹ (revised)

Field	Net assignable square feet [in millions]							
	1988	1990	1992	1994	1996	1998	1999	2001
All fields.....	112	116	122	127	136	143	148	155
Agricultural sciences.....	18	21	20	20	22	25	24	27
Biological sciences	24	27	28	28	30	31	32	33
Inside all medical schools ²	8	9	11	11	11	12	12	13
Outside medical schools.....	16	18	17	17	19	19	19	20
Computer sciences.....	1	1	2	2	2	2	2	2
Earth, atmospheric, and ocean sciences.....	6	6	7	7	7	8	8	8
Engineering.....	16	17	18	21	22	23	24	26
Mathematics.....	1	1	1	1	1	1	1	1
Medical sciences.....	19	20	22	23	25	25	26	28
Inside all medical schools ²	14	15	16	17	18	18	19	20
Outside medical schools.....	5	5	6	6	7	7	7	8
Physical sciences.....	16	16	16	17	18	18	19	19
Psychology.....	3	3	3	3	3	3	3	4
Social sciences.....	3	3	3	3	4	5	5	5
Other sciences.....	4	2	2	2	2	3	3	3

¹ In past surveys, the year assigned to a survey reflected the year that the survey report was published. For example, the 1998 survey was published in 1998 while the data were collected for 1997. Starting with the 1999 survey, the survey year reflects the year of the current amount of space.

² Includes stand-alone medical schools.

NOTES: Figures for 1999 and percentage changes between 1999 and 2001 were revised since initial data release. Components may not add to totals due to rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, FY 2001 Survey of Scientific and Engineering Research Facilities

Table 2. **Geographic distribution of academic science and engineering research space, by field: 2001¹**

Field	Net assignable square feet [in millions]						
	All States	Northeast	Midwest	South	West	EPSCoR	IDeA
						States ²	States ³
All fields.....	155.1	31.7	37.1	52.0	33.8	24.7	23.4
Agricultural sciences.....	26.7	3.5	7.9	10.3	4.9	6.7	6.6
Biological sciences	33.4	7.3	8.1	11.0	6.8	4.9	4.4
Inside all medical schools*	13.1	3.3	3.1	4.7	1.7	1.8	1.5
Inside all AAMC medical schools ⁴	12.3	3.1	2.9	4.4	1.7	1.6	1.4
Outside medical schools.....	20.3	4.0	5.0	6.2	5.0	3.1	2.9
Computer sciences.....	2.4	0.8	0.5	0.5	0.5	0.3	0.3
Earth, atmospheric, and ocean sciences.....	8.1	1.5	1.4	2.8	2.3	1.7	1.8
Engineering.....	25.5	5.2	5.6	9.0	5.6	3.9	3.6
Mathematics.....	1.0	0.3	0.3	0.3	0.2	0.2	0.2
Medical sciences.....	27.8	6.0	6.3	9.3	6.1	3.2	2.5
Inside all medical schools*	19.9	4.2	4.4	6.9	4.3	2.3	1.8
Inside all AAMC medical schools ⁴	19.1	4.0	4.3	6.4	4.3	1.9	1.6
Outside medical schools.....	7.9	1.8	1.9	2.5	1.8	0.8	0.7
Physical sciences.....	19.2	4.7	4.4	5.5	4.5	2.6	2.5
Psychology.....	3.6	0.9	0.9	0.9	0.9	0.4	0.4
Social sciences.....	4.5	0.9	1.0	1.5	1.1	0.7	0.7
Other sciences.....	3.0	0.7	0.6	0.8	0.8	0.4	0.3

¹ Guam and Puerto Rico are excluded from the regions but are included in other table columns where appropriate.

² States in which institutions are eligible for the National Science Foundation's Experimental Program to Stimulate Competitive Research.

³ States in which institutions are eligible for grants from the Institutional Development Award program of the National Institutes of Health.

* Includes stand-alone medical schools.

KEY: AAMC = Association of American Medical Colleges
 EPSCoR = Experimental Program to Stimulate Competitive Research
 IDeA = Institutional Development Award program

NOTE: Components may not add to totals due to rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, FY 2001 Survey of Scientific and Engineering Research Facilities

Table 3. **Institutional distribution of academic science and engineering research space, by field and type of institution: 2001**

Field	Net assignable square feet [in millions]					
	All institutions	Field leaders ¹	Control		Minority-serving institutions	
			Private	Public	HBCUs ²	Hispanic-serving institutions ³
All fields.....	155.1	N/A	42.1	113.0	2.7	4.6
Agricultural sciences.....	26.7	13.7	1.7	25.0	0.7	0.3
Biological sciences.....	33.4	5.6	11.5	21.9	0.5	1.0
Inside all medical schools ⁴	13.1	2.9	6.3	6.8	0.2	0.5
Inside all AAMC medical schools ⁴	12.3	2.9	5.8	6.5	0.2	0.5
Outside medical schools.....	20.3	4.6	5.2	15.1	0.3	0.5
Computer sciences.....	2.4	0.9	1.1	1.3	0.2	0.1
Earth, atmospheric, and ocean sciences.....	8.1	2.2	1.6	6.6	0.1	0.3
Engineering.....	25.5	6.8	6.7	18.8	0.5	1.4
Mathematics.....	1.0	0.2	0.4	0.6	*	*
Medical sciences.....	27.8	7.1	10.2	17.6	0.2	0.6
Inside all medical schools ⁴	19.9	5.5	8.3	11.5	0.1	0.5
Inside all AAMC medical schools ⁴	19.1	5.5	8.0	11.2	0.1	0.5
Outside medical schools.....	7.9	2.6	1.8	6.1	0.1	0.1
Physical sciences.....	19.2	3.6	6.1	13.0	0.4	0.6
Psychology.....	3.6	0.7	1.0	2.6	*	0.1
Social sciences.....	4.5	1.4	0.9	3.6	*	0.2
Other sciences.....	3.0	1.4	0.9	2.0	*	0.1

¹ Field leaders are the 10 institutions with the most research space in a given field.

² Includes all research-performing HBCUs, including the 29 original HBCUs that have been surveyed since 1988.

³ Institutions where at least 25 percent of the undergraduate full-time equivalent enrollment is Hispanic.

⁴ Includes stand-alone medical schools.

KEY: AAMC = Association of American Medical Colleges
 HBCUs = Historically Black Colleges and Universities
 N/A = Not applicable
 * = Less than .05 million

NOTE: Components may not add to totals due to rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, FY 2001 Survey of Scientific and Engineering Research Facilities

Table 4. Amount of instructional and research space, by type of institution: 2001

Type of institution	Number of institutions	Instructional space			Research space in S&E fields
		Total in all academic fields	Total in S&E fields	Total in non-S&E fields	
Net assignable square feet [in millions]					
Total.....	571	287	141	146	155
Doctorate-granting.....	342	237	120	117	147
Top 100 in research expenditures.....	100	146	76	69	110
Other.....	242	92	44	48	37
Nondoctorate-granting.....	229	50	20	29	8
Public.....	288	203	97	105	113
Doctorate-granting.....	188	173	87	87	109
Nondoctorate-granting.....	100	29	11	18	4
Private.....	283	84	43	41	42
Doctorate-granting.....	154	64	34	30	38
Nondoctorate-granting.....	129	20	10	11	4
Minority-serving institutions.....	90	29	13	17	7
All HBCUs ¹	61	16	8	9	3
Original 29 HBCUs.....	29	11	5	6	2
Hispanic-serving institutions ²	29	13	5	8	5

¹ Includes all research-performing HBCUs, including the 29 original HBCUs that have been surveyed since 1988.

² Institutions where at least 25 percent of the undergraduate full-time equivalent enrollment is Hispanic.

KEY: S&E = Science and engineering
HBCUs = Historically Black Colleges and Universities

NOTE: Components may not add to totals due to rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, FY 2001 Survey of Scientific and Engineering Research Facilities

Table 5. **Leased academic science and engineering research space, by type of institution: 2001**

Type of institution	Total S&E research space	Leased S&E research space	Percentage of space leased
	[NASF in millions]		
All academic institutions.....	147.5	6.4	4.4
Doctorate-granting institutions	140.5	6.4	4.5
Nondoctorate-granting institutions.....	7.0	0.1	1.3
Inside all medical schools ¹	82.5	4.5	5.5
Inside all AAMC medical schools ¹	79.3	4.5	5.7
Outside medical schools.....	65.0	1.9	3.0
Control			
Public.....	111.6	4.3	3.9
Private.....	35.8	2.1	5.9
Minority-serving institutions.....	6.4	0.2	2.6
All HBCUs ²	2.3	*	1.1
Original 29 HBCUs.....	1.9	*	1.3
Hispanic-serving institutions ³	4.1	0.1	3.5

¹ Includes stand-alone medical schools.

² Includes all research-performing HBCUs, including the 29 original HBCUs that have been surveyed since 1988.

³ Institutions where at least 25 percent of the undergraduate full-time equivalent enrollment is Hispanic.

KEY: AAMC = Association of American Medical Colleges
HBCUs = Historically Black Colleges and Universities
NASF = Net assignable square feet
S&E = Science and engineering
* = Less than .05 million

NOTES: Components may not add to totals due to rounding.

The values for total S&E research space reported in this table do not include any imputed data for survey nonrespondents. Further, data were not imputed for leased space for survey nonrespondents.

SOURCE: National Science Foundation/Division of Science Resources Statistics, FY 2001 Survey of Scientific and Engineering Research Facilities

Table 6. **Percentage of institutions with leased academic science and engineering research space, by field and type of institution: 2001**

Field	Percentage of institutions						
	All institutions	Doctorate-granting institutions		Control		Minority-serving institutions	
		All	Field leaders ¹	Public	Private	HBCUs ²	Hispanic serving institutions ³
All fields.....	29.2	45.0	N/A	31.9	24.7	7.1	20.0
Agricultural sciences.....	15.9	20.8	60.0	16.3	11.1	0.0	0.0
Biological sciences	12.1	19.5	50.0	13.4	10.0	2.0	0.0
Inside all medical schools*	31.8	32.7	40.0	35.6	27.5	33.3	0.0
Inside all AAMC medical schools*	35.4	35.4	40.0	36.4	34.1	33.3	0.0
Outside medical schools.....	7.1	11.8	30.0	9.3	3.2	0.0	0.0
Computer sciences.....	5.5	8.7	50.0	6.5	3.6	0.0	8.3
Earth, atmospheric, and ocean sciences.....	7.2	10.4	20.0	8.9	2.5	0.0	6.7
Engineering.....	17.4	23.0	50.0	20.9	10.1	5.0	12.5
Mathematics.....	1.0	1.5	20.0	1.0	0.9	0.0	0.0
Medical sciences.....	30.3	37.7	100.0	26.8	38.1	14.3	27.3
Inside all medical schools*	56.8	58.3	90.0	55.4	58.7	66.7	60.0
Inside all AAMC medical schools*	62.4	62.4	90.0	60.0	65.9	66.7	75.0
Outside medical schools.....	16.5	20.8	40.0	16.4	17.0	5.3	0.0
Physical sciences.....	4.7	7.6	60.0	5.9	2.5	0.0	0.0
Psychology.....	7.5	11.5	10.0	7.1	8.3	0.0	6.7
Social sciences.....	9.4	13.0	40.0	10.2	7.6	0.0	12.5
Other sciences.....	11.9	15.7	50.0	11.6	12.5	0.0	0.0

¹ Field leaders are the 10 institutions with the most research space in a given field.

² Includes all research-performing HBCUs, including the 29 original HBCUs that have been surveyed since 1988.

³ Institutions where at least 25 percent of the undergraduate full-time equivalent enrollment is Hispanic.

* Includes stand-alone medical schools.

KEY: AAMC = Association of American Medical Colleges

HBCUs = Historically Black Colleges and Universities

N/A = Not applicable

NOTES: Components may not add to totals due to rounding.

Figures are based on only those institutions with research space in a given field.

The values for leased space do not include any imputed data for survey nonrespondents.

SOURCE: National Science Foundation/Division of Science Resources Statistics, FY 2001 Survey of Scientific and Engineering Research Facilities

Table 7. Academic science and engineering research space needs, by field: 2001

Field	Net assignable square feet [in millions]			Percentage of NASF reported as adequate	Additional space needed as a percentage of NASF ¹
	Available space in 2001	Available space reported as adequate	Additional space needed ¹		
All fields.....	147.5	42.7	40.4	29.0	27.4
Agricultural sciences.....	25.6	7.6	2.7	29.8	10.6
Biological sciences.....	31.9	8.5	10.0	26.6	31.5
Inside all medical schools ^c	12.4	4.0	4.3	32.0	34.9
Inside all AAMC medical schools ^c	12.1	3.9	4.1	32.6	33.9
Outside medical schools.....	19.4	4.5	5.7	23.1	29.3
Computer sciences.....	2.1	0.6	2.2	26.9	108.5
Earth, atmospheric, and ocean sciences.....	7.7	2.9	2.0	37.5	25.7
Engineering.....	24.2	5.7	6.2	23.3	25.7
Mathematics.....	0.9	0.6	0.6	68.8	69.1
Medical sciences.....	26.3	6.0	9.0	22.8	34.1
Inside all medical schools ^c	18.8	3.5	6.8	18.9	36.4
Inside all AAMC medical schools ^c	18.5	3.5	6.7	19.0	36.2
Outside medical schools.....	7.5	2.4	2.1	32.5	28.3
Physical sciences.....	18.3	5.9	4.6	32.5	24.9
Psychology.....	3.4	1.3	1.1	37.0	31.3
Social sciences.....	4.3	1.7	1.5	38.5	34.3
Other sciences.....	2.8	2.0	0.5	71.8	17.5

¹ Additional space needed is based on current research program commitments.

^c Includes stand-alone medical schools.

KEY: AAMC = Association of American Medical Colleges
NASF = Net assignable square feet

NOTES: Components may not add to totals due to rounding.

The values for total S&E research space reported in this table do not include any imputed data for survey nonrespondents. Further, data were not imputed for available space reported as adequate or additional space needed. Percentage calculations are based on unrounded numbers.

SOURCE: National Science Foundation/Division of Science Resources Statistics, FY 2001 Survey of Scientific and Engineering Research Facilities

Table 8. **Academic science and engineering research space needs, by type of institution: 2001**

Type of institution	Net assignable square feet [in millions]		
	Available space in 2001	Available space reported as adequate	Additional space needed ¹
All academic institutions.....	147.5	42.7	40.4
Doctorate-granting institutions.....	140.5	39.4	36.0
Nondoctorate-granting institutions.....	7.0	3.3	4.3
Inside all medical schools ^c	82.5	22.7	22.6
Inside all AAMC medical schools ^c	79.3	22.1	21.6
Outside medical schools.....	65.0	20.0	17.8
Control			
Public.....	111.6	31.1	31.1
Private.....	35.8	11.6	9.2
Minority-serving institutions.....	6.4	2.4	3.5
All HBCUs ³	2.3	0.8	2.3
Original 29 HBCUs.....	1.9	0.7	1.2
Hispanic-serving institutions ⁴	4.1	1.6	1.2

¹ Additional space needed is based on current research program commitments.

^c Includes stand-alone medical schools.

³ Includes all research-performing HBCUs, including the 29 original HBCUs that have been surveyed since 1988.

⁴ Institutions where at least 25 percent of the undergraduate full-time equivalent enrollment is Hispanic.

KEY: AAMC = Association of American Medical Colleges
HBCUs = Historically Black Colleges and Universities

NOTES: Components may not add to totals due to rounding.

The values for total S&E research space reported in this table do not include any imputed data for survey nonrespondents. Further, data were not imputed for available space reported as adequate or additional space needed.

SOURCE: National Science Foundation/Division of Science Resources Statistics, FY 2001 Survey of Scientific and Engineering Research Facilities

Table 9. **Academic science and engineering research space needs, by geographic distribution: 2001**

Geographic distribution	Net assignable square feet [in millions]		
	Available space in 2001	Available space reported as adequate	Additional space needed ¹
All states ²	147.5	42.7	40.4
Northeast.....	29.6	11.8	7.1
Midwest.....	35.6	11.3	7.2
South.....	49.6	11.0	16.0
West.....	32.1	8.6	9.9
EPSCoR states ³	22.6	6.3	7.4
IDeA states ⁴	22.2	6.5	7.0

¹ Additional space needed is based on current research program commitments.

² Guam and Puerto Rico are excluded from the regions but are included in other table columns where appropriate.

³ States in which institutions are eligible for the National Science Foundation's Experimental Program to Stimulate Competitive Research.

⁴ States in which institutions are eligible for grants from the Institutional Development Award program of the National Institutes of Health.

KEY: EPSCoR = Experimental Program to Stimulate Competitive Research
 IDeA = Institutional Development Award program

NOTES: Components may not add to totals due to rounding.

The values for total S&E research space reported in this table do not include any imputed data for survey nonrespondents. Further, data were not imputed for available space reported as adequate or additional space needed.

SOURCE: National Science Foundation/Division of Science Resources Statistics, FY 2001 Survey of Scientific and Engineering Research Facilities

Table 10. Institutions needing additional academic science and engineering research space, by field: 2001

Field	Percentage of institutions with no additional space needed	Percentage of institutions needing additional space of . . .		
		Less than 10 percent of current space	10 percent to 25 percent of current space	More than 25 percent of current space
All fields.....	17.7	13.3	18.3	50.7
Agricultural sciences.....	43.0	19.6	8.4	29.0
Biological sciences.....	33.8	8.8	12.5	44.9
Inside all medical schools ¹	33.7	8.2	14.5	43.6
Inside all AAMC medical schools ¹	33.6	9.5	15.8	41.1
Outside medical schools.....	37.1	7.7	11.1	44.1
Computer sciences.....	43.3	1.6	3.5	51.6
Earth, atmospheric, and ocean sciences.....	47.7	6.5	10.1	35.7
Engineering.....	37.8	10.0	13.6	38.6
Mathematics.....	60.9	2.2	4.1	32.8
Medical sciences.....	39.6	5.4	14.4	40.6
Inside all medical schools ¹	27.1	6.3	25.2	41.4
Inside all AAMC medical schools ¹	27.0	7.0	26.0	40.0
Outside medical schools.....	48.0	5.7	9.3	37.0
Physical sciences.....	40.6	7.4	10.8	41.2
Psychology.....	47.2	5.9	5.1	41.8
Social sciences.....	47.1	6.0	9.3	37.6
Other sciences.....	63.6	4.2	7.6	24.6

¹ Includes stand-alone medical schools.

KEY: AAMC = Association of American Medical Colleges

NOTES: Figures are based on only those institutions with research space in a given field.

Amount of space needed was assessed relative to current research commitments.

The values for additional space needed do not include any imputed data for survey nonrespondents.

SOURCE: National Science Foundation/Division of Science Resources Statistics, FY 2001 Survey of Scientific and Engineering Research Facilities

Table 11. **Geographic distribution of biomedical research space, by field and type of institution: 2001**

Field and type of institution	Net assignable square feet [in millions]					IDeA program states ¹
	All states	Northeast	Midwest	South	West	
Biological sciences.....	43.3	11.5	9.1	12.6	9.8	5.0
Academic institutions.....	33.4	7.3	8.1	11.0	6.8	4.4
Inside all medical schools ⁴	13.1	3.3	3.1	4.7	1.7	1.5
Inside all AAMC medical schools ⁴	12.3	3.1	2.9	4.4	1.7	1.4
Outside medical schools.....	20.3	4.0	5.0	6.2	5.0	2.9
Biomedical research institutions.....	7.4	2.5	0.7	1.3	2.8	0.6
Research hospitals.....	2.5	1.7	0.3	0.3	0.2	*
Medical sciences.....	34.9	9.3	7.3	9.9	8.3	3.0
Academic institutions.....	27.8	6.0	6.3	9.3	6.1	2.5
Inside all medical schools ⁴	19.9	4.2	4.4	6.9	4.3	1.8
Inside all AAMC medical schools ²	19.1	4.0	4.3	6.4	4.3	1.6
Outside medical schools.....	7.9	1.8	1.9	2.5	1.8	0.7
Biomedical research institutions.....	2.4	0.5	0.4	0.3	1.3	*
Research hospitals.....	4.7	2.9	0.6	0.3	0.9	0.4

¹ States in which institutions are eligible for grants through the Institutional Development Award program of the National Institutes of Health.

⁴ Includes stand-alone medical schools.

KEY: AAMC = Association of American Medical Colleges
 IDeA = Institutional Development Award program
 * = Less than .05 million

NOTES: Guam and Puerto Rico are excluded from the regions but are included in other appropriate table columns.
 Components may not add to totals due to rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, FY 2001 Survey of Scientific and Engineering Research Facilities

Table 12. **Percentage of institutions with leased biomedical research space, by field and type of institution: 2001**

Type of institution	Biological sciences	Medical sciences
All institutions.....	18	34
Academic institutions.....	12	30
Inside all medical schools ¹	32	57
Inside all AAMC medical schools ¹	36	63
Outside medical schools.....	7	16
Biomedical research institutions.....	45	49
Research hospitals.....	38	37

¹ Includes stand-alone medical schools.

KEY: AAMC = Association of American Medical Colleges

SOURCE: National Science Foundation/Division of Science Resources Statistics,
FY 2001 Survey of Scientific and Engineering Research Facilities