



STATE R&D PROFILE

Puerto Rico



**Table 1. Federal R&D to Puerto Rico by Agency and Performer,
Fiscal Year 2000**
(obligations in millions of dollars)

Performers	Agencies							TOTAL
	HHS	NSF	USDA	NASA	Interior	DOC	other	
Federal Labs	1	0	7	0	1	0	0	10
Industry	8	0	0	0	0	0	0	8
Univs. / Colleges	39	6	5	3	0	0	2	55
FFRDCs *	0	9	0	0	0	0	0	9
Nonprofits	0	0	1	0	0	0	0	1
State / Local Govts.	1	0	0	0	0	1	0	1
Total Puerto Rico	49	15	12	3	2	2	2	84
U.S. Total	18,577	2,930	1,830	9,714	579	1,237	40,883	75,751
PR % of U.S.	0.3%	0.5%	0.7%	0.0%	0.3%	0.1%	0.0%	0.1%

Source: National Science Foundation, *Federal Funds for Research and Development Fiscal Years 2000, 2001, and 2002*, 2002.

R&D data are for the 10 largest R&D supporting agencies only.

* Federally Funded Research and Development Centers. Government-owned, contractor-operated laboratories.

R&D = conduct of R&D and R&D plant (facilities and capital equipment).

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This AAAS State R&D Profile is one of a series of reports on the state and regional impacts of federal R&D, produced in cooperation with the AAAS Center for Science, Technology, and Congress from data provided by the National Science Foundation Division of Science Resources Statistics. More information on these reports, summary tables on R&D in the states, current profiles of the other states, and full-color, full-size versions of these charts are all available in the "State and Regional Reports" section of the AAAS R&D Web site (<http://www.aaas.org/spp/rd>). These profiles will be updated annually as new data become available.

AAAS State R&D Profiles – Puerto Rico

(Note: Because of incomplete data, rankings are not provided.)

- Puerto Rico received \$84 million in federal R&D in FY 2000. HHS (\$49 million) is the largest federal supporter of R&D in Puerto Rico, followed by NSF (\$15 million), and USDA (\$12 million) (see Table 1). Universities and colleges are the largest performers of federally funded R&D in Puerto Rico, accounting for 65 percent of federally funded R&D (see Chart 2). Puerto Rico ranks ahead of 4 of the 50 states in federal R&D received.

- Puerto Rico is home to the National Astronomy and Ionosphere Center (NAIC), a federally funded research and development center (FFRDC) located in Arecibo. NAIC is operated by Cornell University under cooperative agreement with the NSF. NAIC's mission is to support and stimulate research by the US and international research community in the fields of radio and radar astronomy and upper atmospheric science. NAIC received \$9 million in NSF funding in FY 2000.

- Puerto Rico is home to two USDA research labs. The Tropical Agriculture Research Station, located on the campus of the University of Puerto Rico Mayaguez, conducts research on tropical plants and crops, and the International Institute of Tropical Forestry, located on the campus of the University of Puerto Rico Rio Piedras, carries out research on the management of tropical forestry systems. Together, these two units received \$7 million in R&D funding from USDA in FY 2000.

- Puerto Rico is a participant in the Experimental Program to Stimulate Competitive Research (EPSCoR) started by NSF to help states that traditionally have been underrepresented as recipients of federal R&D funds to become more competitive in winning federal R&D dollars. The program has expanded to include funding from other federal agencies such as DOE, DOD, USDA, EPA, and NASA. Puerto Rico also participates in the Institutional Development Award (IDeA) program, a program administered by NIH that is designed to foster research in states that have not traditionally received significant levels of competitive funding from NIH.

- HHS provided nearly two-thirds of all federal R&D support to universities in Puerto Rico in FY 2000 (see Table 2 and Chart 3). The University of Puerto Rico Medical Sciences Campus was the largest university recipient of federal R&D in FY 2000, all of which (\$17 million) came from HHS (see Table 2 and Chart 4). However, the University of Puerto Rico Mayaguez had the largest R&D expenditures at \$35 million, the largest portion coming from state and local sources (see Table 3).

- Although it is still a small player in the federal R&D portfolio, Puerto Rico has been gaining ground in recent years in the competition for federal R&D funds. From a little over \$50 million in today's dollars in FY 1995, Puerto Rico has won more dollars in each following year to reach nearly \$90 million in today's dollars in FY 2000 (see Chart 5). While Puerto Rico's share of the federal R&D portfolio is still small, its share has been increasing in recent years (see Chart 6).

Click on the charts to view or download full-size color PDF versions of these charts.

**Table 2. Federal R&D to Puerto Rico Universities and Colleges,
Fiscal Year 2000**
(obligations in millions of dollars)

	HHS	NSF	USDA	NASA	DOD	other	TOTAL
U PR Medical Sci (156)	17	0	0	0	0	0	17
U PR Mayaguez	0	1	5	2	1	0	8
U PR Rio Piedras	5	1	0	1	0	0	7
All Other	8	3	0	0	1	3	15
Total Puerto Rico	30	6	5	3	2	3	48
U.S. Total	10,533	2,475	564	872	1,832	1,253	17,529
PR % of U.S.	0.3%	0.2%	0.8%	0.3%	0.1%	0.2%	0.3%

Source: National Science Foundation, *Survey of Federal Science and Engineering Support to Universities, Colleges, and Nonprofit Institutions, Fiscal Year 2000*, 2002.

Figures may differ from other tables because of differing survey methods.

Figures in parentheses denote national rank among universities and colleges in federal R&D funds received.

R&D = conduct of R&D and R&D plant (facilities and capital equipment).

**Table 3. Total R&D Expenditures at Puerto Rico Universities and Colleges
by Source of Funds, Fiscal Year 2000**
(expenditures in millions of dollars)

	Federal	State/ Local	Industry	Institutional Funds	All Other	TOTAL R&D	Federal / Total R&D
U PR Mayaguez (154)	12	14	4	4	0	35	34.1%
U PR Med Sci	17	0	1	4	0	21	77.9%
U PR Rio Piedras	6	0	0	4	0	9	60.4%
All Other	9	0	0	0	0	9	94.8%
Total Puerto Rico	43	14	5	12	1	75	57.4%
U.S. Total	17,493	2,204	2,178	5,924	2,262	30,062	58.2%
yy % of U.S.	0.2%	0.6%	0.2%	0.2%	0.0%	0.2%	

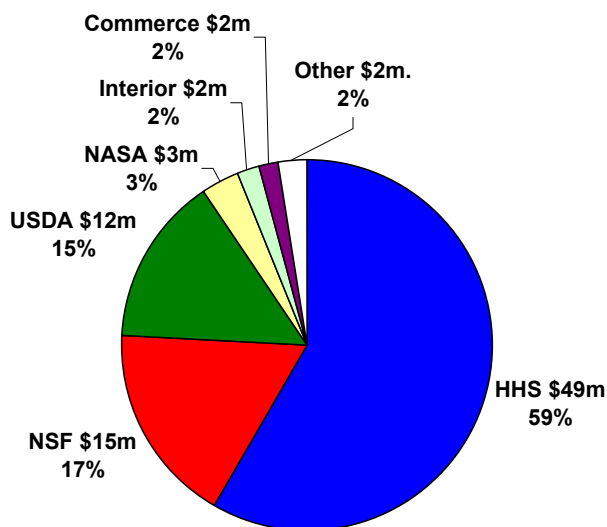
Source: National Science Foundation, *Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000*, 2002.

These data differ significantly from the federal R&D data for the following reasons:

1/ data are from performer surveys rather than funding sources; 2/ data are in expenditures rather than obligations; and 3/ R&D in this survey does not include R&D facilities.

Figures in parentheses denote national rank among universities and colleges in total R&D performed.

Federal R&D to Puerto Rico by Agency
 FY 2000 (obligations in millions of dollars)
 Total: \$84 million

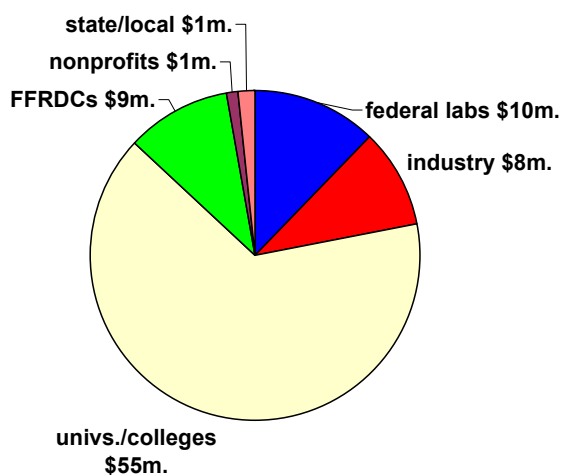


Source: National Science Foundation, Federal Funds for Research and Development, Fiscal Years 2000, 2001, and 2002, 2002.
 R&D = conduct of R&D and R&D plant.
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Chart 1.

Federal R&D to Puerto Rico by Performer
 FY 2000 (obligations in millions of dollars)
 Total: \$84 million



Source: National Science Foundation, Federal Funds for Research and Development, Fiscal Years 2000, 2001, and 2002, 2002.
 R&D = conduct of R&D and R&D plant.
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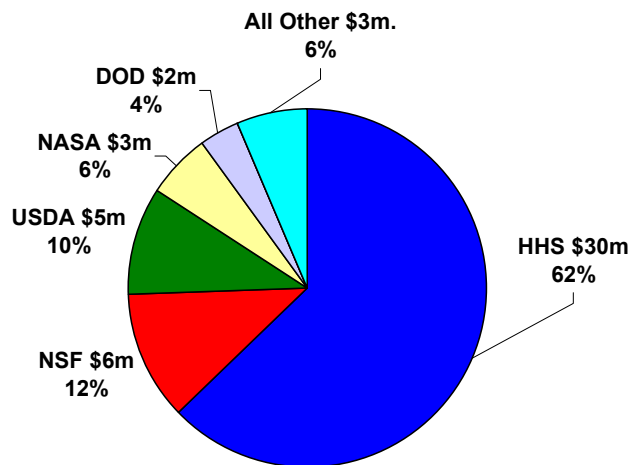


Chart 2.

Federal R&D to Puerto Rico Universities and Colleges

FY 2000 (obligations in millions of dollars)

Total: \$48 million



Source: National Science Foundation, *Federal Science and Engineering Support to Universities, Colleges, and Nonprofit Institutions, FY 2000, 2002.*
R&D = conduct of R&D and R&D plant.
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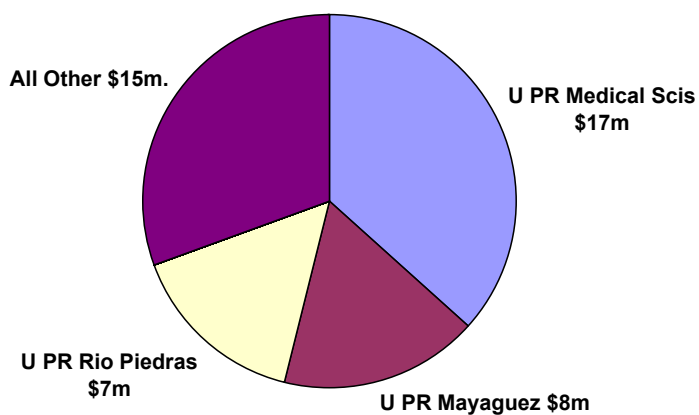


Chart 3.

Federal R&D to Puerto Rico Universities and Colleges

FY 2000 (obligations in millions of dollars)

Total: \$48 million

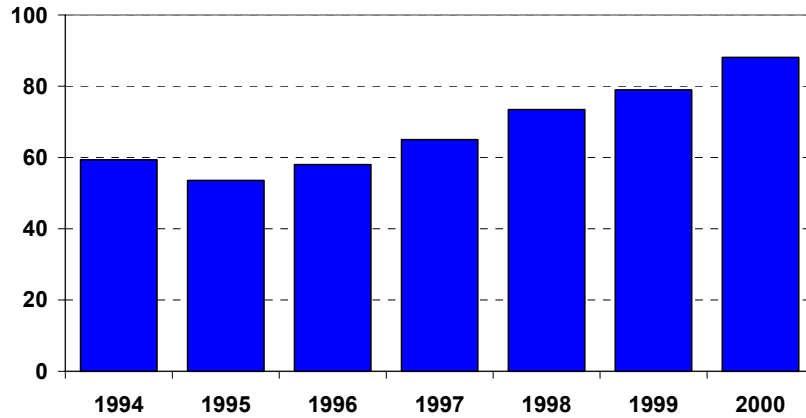


Source: National Science Foundation, *Federal Science and Engineering Support to Universities, Colleges, and Nonprofit Institutions, FY 2000, 2002.*
R&D = conduct of R&D and R&D plant.
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Chart 4.

Federal R&D to Puerto Rico, FY 1994-2000
(millions of constant FY 2002 dollars)

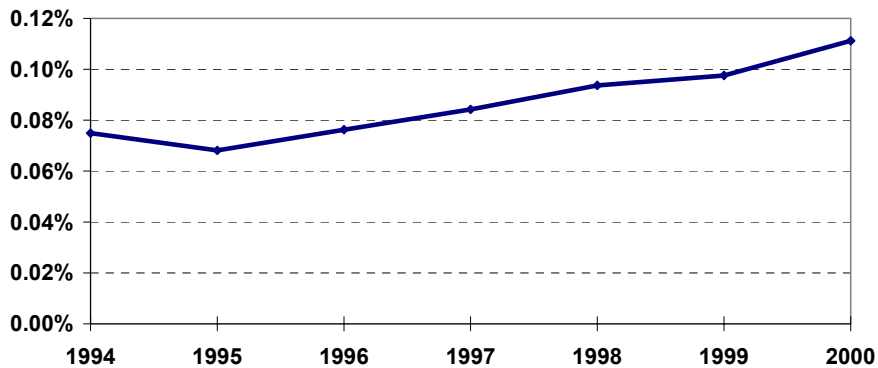


Source: National Science Foundation, Federal Funds for Research and Development Historical Tables, 2002.
R&D = conduct of R&D and R&D plan
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Chart 5.

Puerto Rico share of federal R&D, FY 1970-2000
(percent of total federal R&D)



Source: National Science Foundation, Federal Funds for Research and Development Historical Tables, 2002.
R&D = conduct of R&D and R&D plan.
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Chart 6.