



STATE R&D PROFILE

Nevada



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

Performers	Agencies							TOTAL
	DOE	DOD	HHS	EPA	NSF	Interior	other	
Federal Labs	0	5	0	12	0	3	1	22
Industry	173	22	8	0	0	0	2	204
Univs. / Colleges	5	2	17	0	11	1	3	40
FFRDCs *	0	0	0	0	0	0	0	0
Nonprofits	0	0	1	0	0	0	1	2
State / Local Govts.	0	0	1	0	0	0	1	2
Total Nevada	178	29	27	12	12	4	8	270
U.S. Total	6,872	33,010	18,577	522	2,930	579	13,260	75,751
NV % of U.S.	2.6%	0.1%	0.1%	2.4%	0.4%	0.7%	0.1%	0.4%

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 - Nevada

- Nevada received \$270 million in federal R&D in FY 2000, 0.4 percent of the national total, which gives it a ranking of 33rd among the 50 states and the District of Columbia. The state is home to 2.0 million people, or 0.7 percent of the total U.S. population (35th in rank). Its gross state product in 2000 was \$75 billion (0.8 percent of the national gross domestic product and 32nd among the 50 states and DC; see Facts and Rankings).

- Nevada ranks 31st in federal R&D per capita at \$134 per person, roughly half of the US average of \$269 per person.

- Nevada 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. Nevada 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.

- DOE is by far the largest federal supporter of R&D in Nevada, sending \$178 million to the state in FY 2000. DOD comes in a distant second at \$29 million; HHS comes in third at \$27 million (see Table 1 and Chart 1).

- Universities and colleges received 15 percent of federal R&D funding to Nevada in FY 2000 (\$40 million; see Table 1 and Chart 2), the majority of these funds going to the University of Nevada at Reno.

- Most federal funding at universities and colleges is provided by DOE, which directed \$19 million to Nevada's higher education institutions (see Table 2 and Chart 3).

- The University of Nevada at Reno, the Desert Research Institute, and the University of Nevada at Las Vegas – all members of the University and Community College System of Nevada – collectively rely on federal sources for 56 percent of their R&D funding, slightly below the national average of 58 percent (see Table 3).

- Nevada's largest recipient of federal R&D funding is industry. DOE is far and away the largest contributor, providing \$173 million of the \$204 million of industrially-performed federal R&D in FY 2000 (see Table 1). The vast majority of this funding goes to Bechtel Nevada to manage operations at the Nevada Test Site (NTS). NTS was used for nuclear weapons testing for more than four decades until the nuclear weapons testing moratorium in 1992. It has since been diversified into other uses, including hazardous chemical spill testing, emergency response training, conventional weapons testing, and waste management and environmental technology studies.

- Total R&D performance in the state was \$377 million in 2000, \$282 million (75 percent) of which was funded by the federal government, more than five times the amount of industry funded R&D (see Table 4). For the nation as a whole, the federal government funds one-third and industry nearly two-thirds of all R&D.

- Federal R&D to Nevada has been steadily declining over the past few decades after peaking in FY 1983 at over \$1 billion in today's dollars (see Chart 5). As the Nevada Test Site has declined in importance to the nation with the slowdown and now ban on nuclear testing, nuclear testing R&D activities formerly carried out at the site have dwindled, and have not been replaced fully by new R&D work to characterize the Yucca Mountain site for nuclear waste. Since the mid-1990s, Nevada has received a smaller share of federal R&D than its share of the U.S. population (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 Nevada Universities and Colleges,
Fiscal Year 2000**
(obligations in millions of dollars)

	DOE	HHS	NSF	USDA	DOD	NASA	other	TOTAL
U NV Reno (135)	2	16	2	2	0	0	1	23
U&CC Sys of NV (168)	11	0	3	0	0	0	0	15
Desert Res. Inst. (200)	0	0	5	0	1	1	1	9
U NV Las Vegas	5	0	1	0	0	0	1	8
All Other	0	0	0	0	0	0	0	0
Total Nevada	19	16	11	2	2	2	3	55
U.S. Total	696	10,533	2,475	564	1,832	872	557	17,529
NV % of U.S.	2.7%	0.2%	0.5%	0.4%	0.1%	0.2%	0.5%	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 Nevada 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 NV Reno (127)	26	2	3	24	2	56	46.7%
Desert Res. Inst. (177)	20	2	1	1	2	26	77.0%
U NV Las Vegas (183)	14	4	2	5	0	24	57.1%
Total Nevada	60	7	6	29	5	106	56.4%
U.S. Total	17,493	2,204	2,178	5,924	2,262	30,062	58.2%
NV % of U.S.	0.3%	0.3%	0.3%	0.5%	0.2%	0.4%	

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.

Table 4. Total R&D (all funding sources) in Nevada by Funding Source and Performer, 2000
(expenditures in millions of dollars)

Performers	Funding Sources					Total
	Federal Government	Industry	Univs./ Colleges	State / Local Government	Nonprofits	
Federal Labs	21	--	--	--	--	21
Industry **	199	49	--	--	--	248
Universities / Colleges	60	6	29	7	5	106
FFRDCs*	0	--	--	--	--	0
Nonprofits	2	--	--	--	--	2
Total Nevada	282	54	29	7	5	377
U.S. Total	66,208	182,622	6,210	2,257	7,320	264,617
NV % of U.S.	0.4%	0.0%	0.5%	0.3%	0.1%	0.1%

Source: National Science Foundation, 2002.

* Federally Funded Research and Development Centers. Government-owned, contractor-operated laboratories. FFRDCs operated by universities/colleges and nonprofits only. Industry FFRDCs are included under industry.

** Imputed division of industry performance by funding source based on other data.

Industry funding of nonprofit R&D is not included in state data, but is included in national totals.

Industry funding of industry R&D includes all non-federal funding of industry-performed R&D.

Nonprofit support for nonprofits is not included in state data, but is included in national totals.

Nonfederal support for FFRDCs and nonprofits are not included.

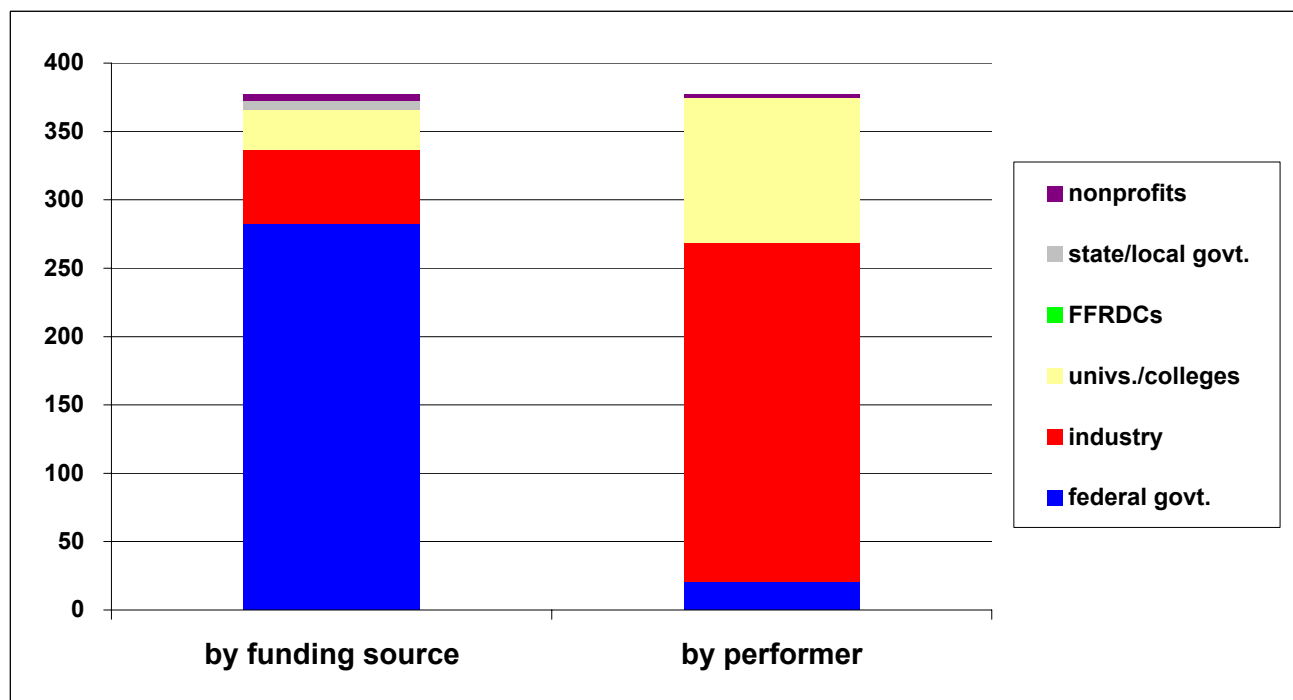
State and local government performance of R&D is not included.

Conduct of R&D only (R&D facilities and capital equipment excluded).

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

1/ data are for calendar year 2000 rather than FY 2000; 2/ data are from performer surveys rather than funding sources; and 3/ data are in expenditures rather than obligations.

Chart. Total R&D in Nevada by Funding Source and by Performer, 2000
expenditures in millions of dollars



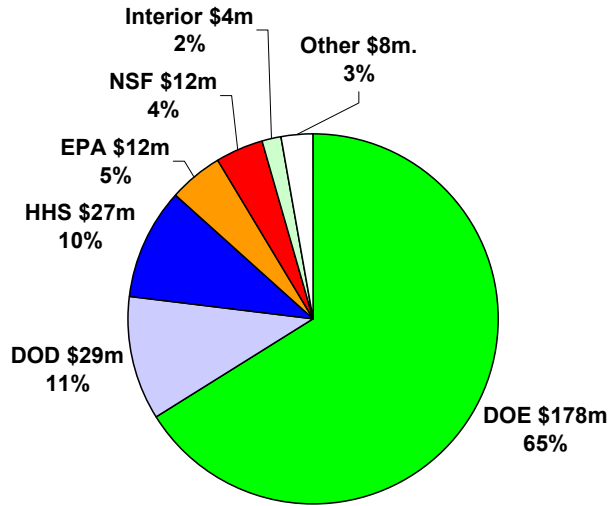
Facts and Rankings for Nevada

	NV	U.S.	NV % of U.S.	Rank *
Total Federal R&D	270 million \$ ('00)	75,751	0.4%	33
Population	2.02 million ('00)	282.13	0.7%	35
Federal R&D Per Capita	\$ 134 ('00)	\$ 269	49.8%	31
Total Federal Expenditures	8,626 million \$ ('00)	1,637,170	0.5%	40
Federal R&D / Total Federal	3.1% ('00)	4.6%		22
Total R&D (all funds)	377 million \$ ('00)	264,616	0.1%	44
Total R&D Per Capita	\$ 187 ('00)	\$ 938	19.9%	46
Gross State Product (GSP)	74,745 million \$ ('00)	9,941,552	0.8%	32
GSP Per Capita	\$ 37,026 ('00)	\$ 35,238	105.1%	15
R&D Intensity (R&D / GSP)	0.50% ('00)	2.66%	18.8%	48

Source: Federal R&D: National Science Foundation, *Federal Funds for Research and Development: Fiscal Years 2000, 2001, and 2002* and other data, 2002; Population: U.S. Bureau of the Census; Federal Expenditures: U.S. Bureau of the Census, *Federal Expenditures by State for Fiscal Year 2000, 2001*; GSP: U.S. Department of Commerce, Bureau of Economic Analysis.

* - Rank among 50 states and District of Columbia.

Federal R&D to Nevada by Agency
 FY 2000 (obligations in millions of dollars)
 Total: \$270 million

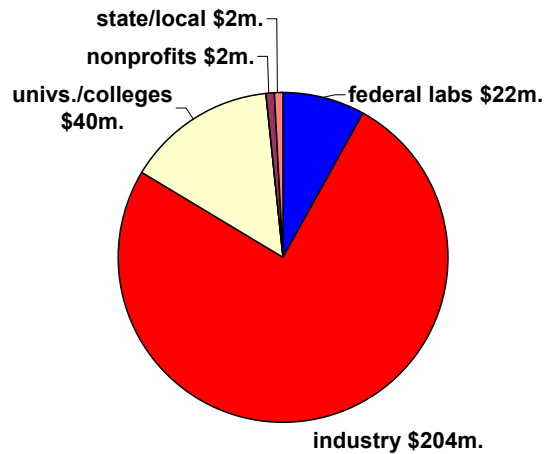


Source: National Science Foundation, Federal Funds for Research and Development, Fiscal Years 2000, 2001, and 2002, 2002.
 R&D = conduct of R&D and R&D plant.
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Chart 1.

Federal R&D to Nevada by Performer
 FY 2000 (obligations in millions of dollars)
 Total: \$270 million

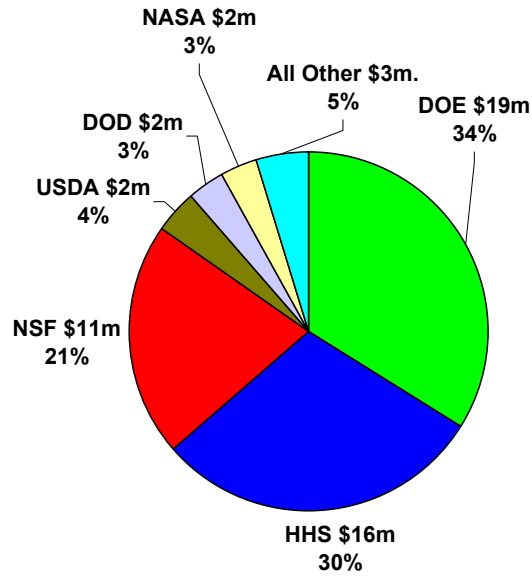


Source: National Science Foundation, Federal Funds for Research and Development, Fiscal Years 2000, 2001, and 2002, 2002.
 R&D = conduct of R&D and R&D plant.
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Chart 2.

Federal R&D to Nevada Universities and Colleges
 FY 2000 (obligations in millions of dollars)
 Total: \$55 million

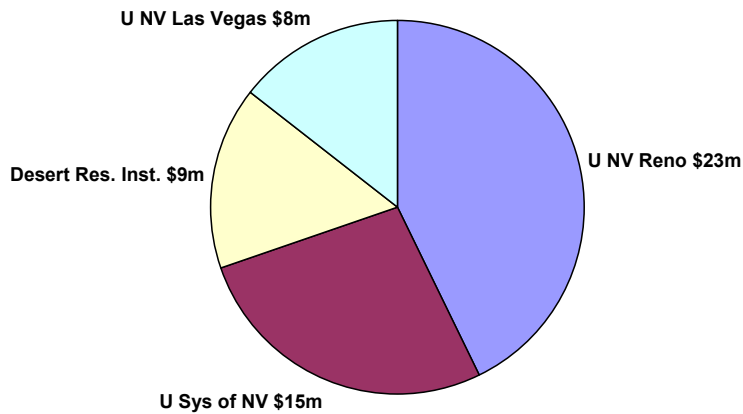


Source: National Science Foundation, *Federal Science and Engineering Support to Universities, Colleges, and Nonprofit Institutions, FY 2000, 2002.*
 R&D = conduct of R&D and R&D plant.
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Chart 3.

Federal R&D to Nevada Universities and Colleges
 FY 2000 (obligations in millions of dollars)
 Total: \$55 million

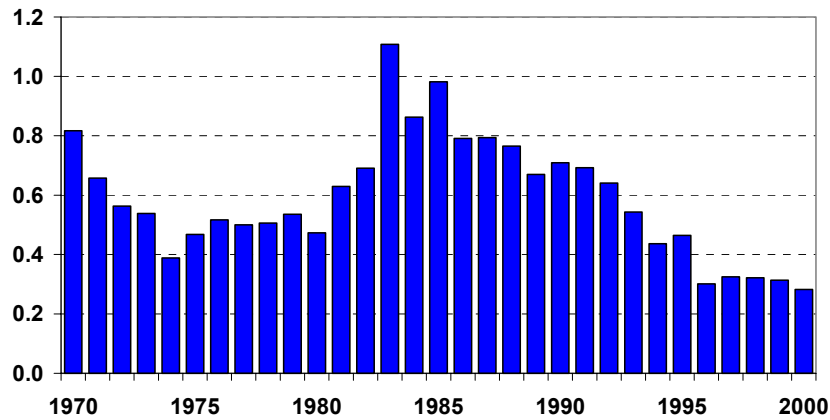


Source: National Science Foundation, *Federal Science and Engineering Support to Universities, Colleges, and Nonprofit Institutions, FY 2000, 2002.*
 R&D = conduct of R&D and R&D plant.
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Chart 4.

Federal R&D to Nevada, FY 1970-2000
(billions of constant FY 2002 dollars)

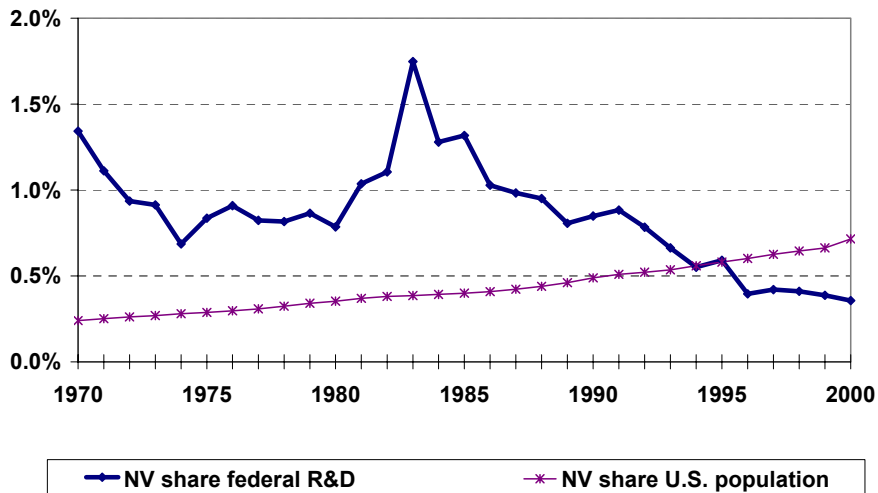


Source: National Science Foundation, Federal Funds for Research and Development Historical Tables, 2002.
R&D = conduct of R&D and R&D plant
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Chart 5.

Nevada 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 plant.
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Chart 6.