



NIH'S ROLE IN SUSTAINING THE U.S. ECONOMY | 2018 UPDATE

Research funded by the National Institutes of Health (NIH) saves lives, improves health, and offers hope to people the world-over affected by disease. **It also supports more than 400,000 jobs and nearly \$69 billion in economic activity across the United States, making the NIH a research and economic powerhouse.**

In fiscal year 2017, the NIH provided just over \$26.1 billion in extramural research funding to scientists in all 50 states and the District of Columbia. While these researchers are working to address some of our most urgent and chronic health problems, their work also has a significant impact on economic growth and employment. Using the Regional Input-Output Modeling System (RIMS II) developed by the Department of Commerce, United for Medical Research calculated the impact of NIH research funding in 2017 on jobs and the economy.

As seen in the table on the next page, NIH research funding in 2017 directly and indirectly supported **402,816 jobs nationwide**. Thirteen states have employment of 10,000 or more supported by NIH research funding and the median state has 4,014 jobs due to NIH activity. Additionally, the income generated by these jobs, as well as by the purchase of research-related equipment, services and materials, when cycled through the economy, produced **\$68.795 billion in new economic activity in 2017**. Twenty states experienced an economic gain of \$1 billion or more.

NIH Research Supports More Than \$1B in Economic Activity in 20 States

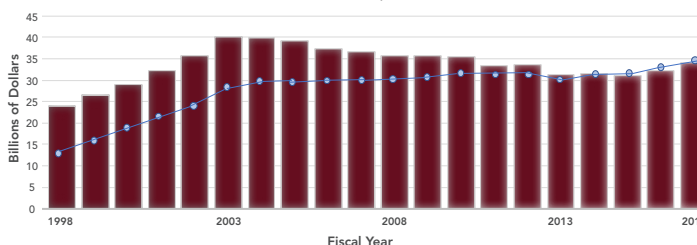
California • Colorado • Connecticut • Florida
Georgia • Illinois • Maryland • Massachusetts
Michigan • Minnesota • Missouri • New York
North Carolina • Ohio • Pennsylvania • Tennessee
Texas • Virginia • Washington • Wisconsin

Congress approved a \$2 billion boost to the NIH budget in FY16 and FY17 — the first substantial increases in more than 10 years. These increases have made a difference in grants, jobs, and economic activity.

	FY2015	FY2016	FY2017
Total NIH research funds awarded in 50 states + DC	\$22.8 billion	\$24.6 billion	\$26.1 billion
Total jobs supported nationwide	352,349 jobs	379,471 jobs	402,816 jobs
Total economic activity nationwide	\$60.717 billion	\$64.799 billion	\$68.795 billion

NIH Budget 1998–2017

constant dollars / current dollars



The NIH budget is making up for many years of flat funding.

NIH Research Supports 10,000+ Jobs in 13 States

California 62,075	Massachusetts 32,788	Pennsylvania 23,182
Florida 14,355	Michigan 11,442	Texas 24,341
Georgia 11,199	New York 29,679	Washington 14,051
Illinois 14,322	North Carolina 20,242	
Maryland 20,836	Ohio 12,530	

A note about this data: Since 2011, United for Medical Research has provided an analysis of the employment and economic activity attributable to NIH extramural research spending. We rely on the RIMS II model maintained by the Bureau of Economic Analysis, which is part of the U.S. Department of Commerce. This model was last updated by BEA in November 2015. This 2018 update, and each of the previous analyses, was conducted by Dr. Everett Ehrlich of ESC Company.

United for Medical Research

Economic Impact of NIH Research Activity by State FY2017

State	NIH AWARDS (\$M)	Jobs Created per \$1M NIH Awards	Intrastate Jobs	Added Interstate Activity (%)	Interstate Jobs	TOTAL EMPLOYMENT	ECONOMIC ACTIVITY (\$M)
Alabama	\$298.2	12.9255	3,854	20.9%	807	4,661	\$715.4
Alaska	\$16.8	11.7961	198	102.4%	203	401	\$60.0
Arizona	\$189.0	14.971	2,830	44.2%	1,251	4,080	\$601.2
Arkansas	\$57.1	12.7123	726	72.3%	525	1,251	\$174.2
California	\$3,946.4	13.4766	53,183	16.7%	8,891	62,075	\$11,031.2
Colorado	\$359.4	15.1942	5,460	22.4%	1,226	6,686	\$1,060.4
Connecticut	\$523.8	10.16	5,322	14.8%	789	6,111	\$1,213.4
Delaware	\$43.5	7.9568	346	53.1%	184	530	\$124.1
District of Columbia	\$227.3	2.5243	574	22.1%	127	700	\$421.2
Florida	\$649.9	15.946	10,364	38.5%	3,991	14,355	\$2,006.7
Georgia	\$537.4	16.6467	8,946	25.2%	2,252	11,199	\$1,591.4
Hawaii	\$49.5	13.3149	659	52.6%	347	1,006	\$147.9
Idaho	\$14.1	11.7608	166	159.9%	265	431	\$67.0
Illinois	\$805.5	14.3185	11,534	24.2%	2,788	14,322	\$2,463.8
Indiana	\$260.6	12.9256	3,369	40.0%	1,347	4,716	\$732.4
Iowa	\$177.4	12.1646	2,158	35.4%	765	2,922	\$426.4
Kansas	\$100.6	11.7355	1,181	46.8%	553	1,734	\$284.6
Kentucky	\$188.0	12.9582	2,437	32.5%	792	3,229	\$482.9
Louisiana	\$141.7	13.8442	1,961	51.8%	1,016	2,977	\$418.4
Maine	\$89.4	13.9673	1,248	21.2%	264	1,513	\$204.4
Maryland	\$1,611.9	12.1303	19,553	6.6%	1,283	20,836	\$3,742.6
Massachusetts	\$2,716.7	11.4899	31,215	5.0%	1,572	32,788	\$6,353.8
Michigan	\$707.7	13.5672	9,602	19.2%	1,841	11,442	\$1,835.9
Minnesota	\$557.1	12.9548	7,217	16.4%	1,180	8,398	\$1,453.4
Mississippi	\$53.2	12.584	670	69.3%	464	1,134	\$159.6
Missouri	\$537.5	12.1388	6,524	16.0%	1,045	7,569	\$1,305.6
Montana	\$36.0	13.5357	487	43.7%	213	700	\$91.5
Nebraska	\$108.0	13.1253	1,418	35.2%	499	1,917	\$271.9
Nevada	\$31.5	11.9684	377	145.3%	548	925	\$148.8
New Hampshire	\$108.9	10.7293	1,168	21.7%	254	1,422	\$260.7
New Jersey	\$241.0	12.3079	2,966	62.2%	1,846	4,813	\$903.5
New Mexico	\$100.3	11.7739	1,181	30.6%	361	1,542	\$240.7
New York	\$2,386.0	10.5353	25,138	18.1%	4,542	29,679	\$5,905.6
North Carolina	\$1,245.8	14.599	18,187	11.3%	2,055	20,242	\$3,095.0
North Dakota	\$18.4	10.7606	198	103.9%	206	403	\$63.2
Ohio	\$754.3	13.5479	10,219	22.6%	2,311	12,530	\$2,047.0
Oklahoma	\$92.1	14.4572	1,332	59.6%	793	2,126	\$292.6
Oregon	\$312.2	13.6984	4,276	21.9%	937	5,213	\$767.4
Pennsylvania	\$1,672.9	12.4386	20,809	11.4%	2,373	23,182	\$4,235.8
Rhode Island	\$170.6	11.1262	1,898	11.0%	209	2,107	\$350.1
South Carolina	\$183.5	15.112	2,773	33.0%	914	3,687	\$509.9
South Dakota	\$23.5	12.1335	286	73.2%	209	495	\$68.9
Tennessee	\$511.4	13.3177	6,811	17.8%	1,216	8,027	\$1,320.3
Texas	\$1,160.6	15.6829	18,202	33.7%	6,138	24,341	\$3,820.5
Utah	\$198.1	16.752	3,319	21.0%	696	4,014	\$548.1
Vermont	\$49.3	12.8212	632	20.8%	132	764	\$108.6
Virginia	\$377.0	11.1473	4,202	37.2%	1,563	5,765	\$1,095.3
Washington	\$998.2	12.4095	12,387	13.4%	1,664	14,051	\$2,425.1
West Virginia	\$28.3	11.4371	323	90.7%	293	617	\$92.3
Wisconsin	\$424.9	13.2189	5,617	22.9%	1,287	6,903	\$1,011.8
Wyoming	\$12.4	10.4272	130	119.9%	156	285	\$42.3
50 states plus DC	\$26,105.2		335,634	20.0%	67,182	402,816	\$68,795

United for Medical Research is a coalition of leading research institutions, patient and health advocates, and private industry that have joined together to seek steady increases in funding for the National Institutes of Health. UMR members include: AdvaMed, Alzheimer's Association, American Association for the Advancement of Science, American Cancer Society Cancer Action Network, American Heart Association, Association of American Universities, Association of Public and Land-grant Universities, BD, Biotechnology Industry Organization, Boston University, Corning, FasterCures, Harvard University, Johns Hopkins University, Johnson & Johnson, Massachusetts Institute of Technology, Northwestern University, PhRMA, Research!America, Stanford University, Thermo Fisher Scientific, University of Pennsylvania, Vanderbilt University, Vanderbilt University Medical Center, and Washington University in St. Louis.