



NIH'S ROLE IN SUSTAINING THE U.S. ECONOMY

2017
UPDATE

Research funded by the National Institutes of Health (NIH) saves lives, improves health, and offers hope to people affected by disease. **It also supports almost 380,000 jobs and \$65 billion in economic activity across the United States, making NIH research an engine for both medical and economic progress.**

In fiscal year 2016, the NIH provided just under \$24.6 billion in extramural research funding to scientists in all 50 states and the District of Columbia. These researchers are working on 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 2016 on jobs and the economy.

As seen in the table on the next page, NIH research funding in 2016 directly and indirectly supported **379,471 jobs nationwide**. Thirteen states have employment of 10,000 or more supported by NIH research funding. The median state has about 3,700 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 **\$64.799 billion in new economic activity** in 2016. Nineteen states experienced an economic gain of \$1 billion or more.

The NIH is the world's premier health research agency, fueling life-changing discovery and helping to maintain American output, employment and a globally competitive life sciences industry. The numbers in this report underscore the importance of not just providing the NIH strong funding, but of ensuring steady and sustainable growth in the NIH budget over the long term.

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

	FY2015	FY2016	Gain
Total NIH research funds awarded in 50 states + DC	\$22.8 billion	\$24.6 billion	\$1.8 billion
Total jobs supported nationwide	352,349 jobs	379,471 jobs	27,122 jobs
Total economic activity nationwide	\$60.717 billion	\$64.799 billion	\$4.082 billion

NIH Research Supports 10,000+ Jobs in 13 States

California 57,597	Maryland 18,970	Ohio 12,116
Massachusetts 31,019	North Carolina 18,771	Michigan 10,817
New York 27,526	Illinois 14,348	Georgia 10,708
Texas 23,442	Washington 13,331	
Pennsylvania 21,751	Florida 12,147	

NIH Research Supports More Than \$1B In Economic Activity in 19 States

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

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 2017 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 FY2016

State	NIH AWARDS (\$M)	Jobs Created per \$1M NIH Awards	Intrastate Jobs	Added Interstate Activity (%)	Interstate Jobs	TOTAL EMPLOYMENT	ECONOMIC ACTIVITY (\$M)
Alabama	\$295.0	12.9255	3,813	20.8%	791	4,604	\$706.6
Alaska	\$14.6	11.7961	172	126.1%	217	389	\$58.2
Arizona	\$163.4	14.971	2,447	48.2%	1,179	3,626	\$534.3
Arkansas	\$96.7	12.7123	1,229	43.1%	530	1,759	\$244.8
California	\$3,686.0	13.4766	49,675	15.9%	7,922	57,597	\$10,235.5
Colorado	\$350.0	15.1942	5,318	22.1%	1,175	6,492	\$1,029.6
Connecticut	\$510.6	10.16	5,188	15.0%	780	5,968	\$1,185.1
Delaware	\$45.4	7.9568	361	44.6%	161	522	\$122.3
District of Columbia	\$214.2	2.5243	541	21.5%	116	657	\$395.1
Florida	\$531.7	15.946	8,479	43.3%	3,668	12,147	\$1,698.1
Georgia	\$520.6	16.6467	8,666	23.6%	2,042	10,708	\$1,521.7
Hawaii	\$54.4	13.3149	725	44.1%	319	1,044	\$153.6
Idaho	\$14.1	11.7608	166	148.6%	247	413	\$64.2
Illinois	\$818.0	14.3185	11,713	22.5%	2,635	14,348	\$2,468.3
Indiana	\$225.1	12.9256	2,910	42.6%	1,241	4,151	\$644.7
Iowa	\$170.1	12.1646	2,069	33.7%	696	2,765	\$403.5
Kansas	\$91.3	11.7355	1,072	50.3%	539	1,611	\$264.4
Kentucky	\$163.6	12.9582	2,120	36.1%	766	2,886	\$431.6
Louisiana	\$141.8	13.8442	1,963	52.1%	1,024	2,987	\$419.8
Maine	\$75.6	13.9673	1,056	23.8%	251	1,308	\$176.7
Maryland	\$1,465.6	12.1303	17,778	6.7%	1,192	18,970	\$3,407.5
Massachusetts	\$2,572.5	11.4899	29,558	4.9%	1,461	31,019	\$6,011.2
Michigan	\$669.6	13.5672	9,084	19.1%	1,733	10,817	\$1,735.6
Minnesota	\$520.2	12.9548	6,739	16.5%	1,109	7,849	\$1,358.3
Mississippi	\$53.5	12.584	674	66.4%	447	1,121	\$157.8
Missouri	\$509.0	12.1388	6,178	16.2%	1,004	7,182	\$1,238.9
Montana	\$37.3	13.5357	505	39.8%	201	706	\$92.3
Nebraska	\$107.0	13.1253	1,405	33.2%	466	1,871	\$265.3
Nevada	\$31.3	11.9684	375	133.5%	500	875	\$140.7
New Hampshire	\$98.9	10.7293	1,061	22.7%	241	1,301	\$238.7
New Jersey	\$240.1	12.3079	2,956	60.5%	1,789	4,745	\$890.7
New Mexico	\$99.7	11.7739	1,174	30.4%	357	1,531	\$239.0
New York	\$2,205.9	10.5353	23,240	18.4%	4,285	27,526	\$5,477.0
North Carolina	\$1,154.3	14.599	16,852	11.4%	1,919	18,771	\$2,870.0
North Dakota	\$22.5	10.7606	242	84.8%	205	447	\$70.0
Ohio	\$734.2	13.5479	9,946	21.8%	2,169	12,116	\$1,979.3
Oklahoma	\$90.7	14.4572	1,311	59.9%	786	2,097	\$288.6
Oregon	\$274.6	13.6984	3,762	24.5%	922	4,684	\$689.5
Pennsylvania	\$1,570.2	12.4386	19,530	11.4%	2,221	21,751	\$3,974.4
Rhode Island	\$150.8	11.1262	1,678	12.1%	203	1,881	\$312.6
South Carolina	\$179.1	15.112	2,706	31.1%	841	3,547	\$490.5
South Dakota	\$21.6	12.1335	262	72.8%	191	452	\$63.0
Tennessee	\$512.4	13.3177	6,824	16.4%	1,117	7,941	\$1,306.2
Texas	\$1,097.7	15.6829	17,215	36.2%	6,228	23,442	\$3,679.5
Utah	\$185.1	16.752	3,102	20.2%	625	3,727	\$508.9
Vermont	\$48.8	12.8212	625	20.4%	127	752	\$107.0
Virginia	\$349.5	11.1473	3,896	38.5%	1,499	5,395	\$1,024.9
Washington	\$952.8	12.4095	11,824	12.7%	1,507	13,331	\$2,300.9
West Virginia	\$24.0	11.4371	275	110.1%	303	578	\$86.5
Wisconsin	\$421.8	13.2189	5,575	21.9%	1,221	6,797	\$996.2
Wyoming	\$9.5	10.4272	99	170.5%	169	267	\$39.7
50 states plus DC	\$24,592.6		316,133	20.0%	63,337	379,471	\$64,799

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, Massachusetts Institute of Technology, Melanoma Research Alliance, Northwestern University, Pancreatic Cancer Action Network, PhRMA, Research!America, Stanford University, Thermo Fisher Scientific, University of Pennsylvania, Vanderbilt University & Vanderbilt University Medical Center, and Washington University in St. Louis.