



NIH'S ROLE IN SUSTAINING THE U.S. ECONOMY 2019 STATE-BY-STATE 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 **433,000 jobs** and nearly **\$74 billion** in economic activity across the United States, making the NIH a research and economic powerhouse.

In fiscal year 2018, the NIH provided just over \$28 billion in extramural research funding to scientists in all 50 states and the District of Columbia. 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 2018 on jobs and the economy.

As seen in the table on the next page, NIH research funding in 2018 directly and indirectly supported **433,011 jobs nationwide**. Twenty-three states have employment of 5,000 or more supported by NIH research funding, 13 states have 10,000 or more and the median state has 4,585 jobs due to NIH activity. 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 **\$73.909 billion in new economic activity** in 2018. Twenty-eight states experienced an economic gain of over \$500 million and 20 states exceeded \$1 billion in economic gain.

RECENT IMPROVEMENTS TO THE NIH BUDGET				
	FY2015	FY2016	FY2017	FY2018
Total NIH research funds awarded in 50 states + DC	\$22.8 billion	\$24.6 billion	\$26.1 billion	\$28.05 billion
Total jobs supported nationwide	352,349 jobs	379,471 jobs	402,816 jobs	433,011 jobs
Total economic activity nationwide	\$60.717 billion	\$64.799 billion	\$68.795 billion	\$73.909 billion


After more than a decade of flat-funding, Congress increased the NIH budget by \$9 billion over the last four fiscal years (FY16–19). These increases have made a difference in grants, jobs, and economic activity and, importantly, have allowed the NIH budget to begin to recover from years of under-funding and ensure that critical research continues to be funded.

433,011
TOTAL JOBS



23 states with **5,000+** jobs
13 states with **10,000+** jobs

\$73.9 billion
TOTAL ECONOMIC ACTIVITY



28 states with **\$500 million+**
20 states with **\$1 billion+**

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.

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 December 2016. This 2019 update, and each of the previous analyses, was conducted by Dr. Everett Ehrlich of ESC Company.

Economic Impact of NIH Research by State FY2018

State	NIH AWARDS (\$M)	Jobs Created per \$1M NIH Awards	Intrastate Jobs	Added Interstate Activity (%)	Interstate Jobs	TOTAL EMPLOYMENT	ECONOMIC ACTIVITY (\$M)
Alabama	350.7	12.926	4,533	18.8%	850	5,384	\$826
Alaska	16.4	11.796	194	110.0%	213	406	\$61
Arizona	238.2	14.971	3,567	38.7%	1,381	4,948	\$729
Arkansas	58.1	12.712	739	73.4%	543	1,281	\$178
California	4,243.4	13.477	57,187	17.0%	9,750	66,937	\$11,895
Colorado	404.4	15.194	6,145	22.0%	1,354	7,499	\$1,189
Connecticut	560.9	10.160	5,699	14.2%	811	6,510	\$1,293
Delaware	51.5	7.957	410	45.9%	188	598	\$140
District of Columbia	229.6	2.524	580	23.8%	138	718	\$432
Florida	607.7	15.946	9,690	44.8%	4,346	14,036	\$1,962
Georgia	582.7	16.647	9,699	25.2%	2,440	12,139	\$1,725
Hawaii	65.0	13.315	865	42.2%	365	1,231	\$181
Idaho	15.0	11.761	176	164.4%	290	466	\$72
Illinois	895.4	14.319	12,820	23.0%	2,948	15,768	\$2,713
Indiana	276.8	12.926	3,578	39.2%	1,403	4,981	\$774
Iowa	191.9	12.165	2,334	32.8%	766	3,100	\$452
Kansas	114.6	11.736	1,345	43.8%	590	1,935	\$318
Kentucky	207.6	12.958	2,690	30.7%	827	3,518	\$526
Louisiana	153.0	13.844	2,118	49.5%	1,049	3,167	\$445
Maine	99.6	13.967	1,392	20.2%	280	1,672	\$226
Maryland	1,531.6	12.130	18,579	7.3%	1,362	19,941	\$3,582
Massachusetts	2,887.2	11.490	33,173	5.2%	1,734	34,907	\$6,765
Michigan	766.3	13.567	10,396	18.8%	1,957	12,353	\$1,982
Minnesota	561.7	12.955	7,276	17.0%	1,238	8,514	\$1,473
Mississippi	50.9	12.584	641	74.2%	475	1,116	\$157
Missouri	605.5	12.139	7,350	14.7%	1,084	8,434	\$1,455
Montana	52.0	13.536	704	31.7%	224	928	\$121
Nebraska	123.4	13.125	1,620	31.7%	513	2,133	\$303
Nevada	35.6	11.968	426	144.6%	616	1,041	\$167
New Hampshire	107.4	10.729	1,152	23.9%	275	1,427	\$262
New Jersey	261.3	12.308	3,216	61.3%	1,971	5,187	\$974
New Mexico	98.0	11.774	1,154	32.2%	372	1,526	\$238
New York	2,632.7	10.535	27,736	17.9%	4,971	32,707	\$6,508
North Carolina	1,402.4	14.599	20,474	10.7%	2,182	22,657	\$3,464
North Dakota	21.0	10.761	226	91.8%	208	434	\$68
Ohio	816.9	13.548	11,067	21.9%	2,428	13,496	\$2,205
Oklahoma	96.1	14.457	1,389	61.6%	856	2,245	\$309
Oregon	345.9	13.698	4,738	20.2%	957	5,695	\$838
Pennsylvania	1,810.2	12.439	22,517	11.3%	2,548	25,065	\$4,580
Rhode Island	194.3	11.126	2,162	10.1%	217	2,379	\$395
South Carolina	197.0	15.112	2,976	33.0%	983	3,959	\$547
South Dakota	24.1	12.134	293	75.0%	219	512	\$71
Tennessee	549.7	13.318	7,320	17.9%	1,310	8,630	\$1,420
Texas	1,243.4	15.683	19,500	33.9%	6,602	26,102	\$4,097
Utah	228.4	16.752	3,826	19.8%	759	4,585	\$626
Vermont	57.6	12.821	738	18.9%	139	877	\$125
Virginia	415.1	11.147	4,627	35.8%	1,656	6,283	\$1,194
Washington	1,042.3	12.410	12,934	14.8%	1,912	14,846	\$2,562
West Virginia	35.4	11.437	405	75.7%	307	712	\$107
Wisconsin	481.7	13.219	6,367	21.2%	1,351	7,718	\$1,131
Wyoming	14.1	10.427	147	109.3%	161	307	\$46
50 states plus DC	28,051.6		360,891	20.0%	72,120	433,011	\$73,909

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. 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 Innovation Organization, Boston University, Corning, 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.

