



2020 STATE-BY-STATE UPDATE

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



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 nearly **476,000 jobs** and more than **\$81 billion** in economic activity across the United States, making the NIH a research and economic powerhouse.

In fiscal year 2019, the NIH provided \$30.82 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 2019 on jobs and the economy.



NIH research funding in 2019 directly and indirectly supported 475,905 jobs nationwide. In 25 states, 5,000 or more jobs were supported by NIH research funding and in 13 states there were 10,000 or more jobs supported. The median state had 4,760 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 \$81.22 billion in new economic activity in 2019. Twenty-nine states experienced an economic gain of over \$500 million and 21 states exceeded \$1 billion in economic gain.

RECENT INCREASES TO THE NIH BUDGET

	FY2015	FY2016	FY2017	FY2018	FY2019
Total NIH research funds awarded in 50 states + DC	\$22.8 billion	\$24.6 billion	\$26.1 billion	\$28.05 billion	\$30.82 billion
Total jobs supported nationwide	352,349 jobs	379,471 jobs	402,816 jobs	433,011 jobs	475,905 jobs
Total economic activity nationwide	\$60.717 billion	\$64.799 billion	\$68.795 billion	\$73.909 billion	\$81.220 billion

Since FY2016, Congress has provided strong increases to the NIH budget. 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.



475,905
TOTAL JOBS

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



\$81.22 billion
TOTAL ECONOMIC ACTIVITY

29 states with **\$500 million+**
21 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, UMR 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 2020 update, and each of the previous analyses, was conducted by Dr. Everett Ehrlich of ESC Company.

Economic Impact of NIH Research by State FY2019

State	NIH AWARDS (\$M)	Jobs Created per \$1M NIH Awards	Intrastate Jobs	Added Interstate Activity (%)	Interstate Jobs	TOTAL EMPLOYMENT	ECONOMIC ACTIVITY (\$M)
Alabama	391.6	12.926	5,061	18.5%	934	5,996	920
Alaska	17.9	11.796	212	110.5%	234	445	67
Arizona	263.0	14.971	3,937	38.5%	1,517	5,454	804
Arkansas	58.3	12.712	742	80.4%	596	1,338	186
California	4,591.6	13.477	61,879	17.3%	10,715	72,594	12,900
Colorado	427.2	15.194	6,491	22.9%	1,488	7,980	1,266
Connecticut	603.0	10.160	6,126	14.5%	891	7,018	1,393
Delaware	52.9	7.957	421	49.1%	207	628	147
District of Columbia	246.5	2.524	622	24.4%	152	774	466
Florida	705.0	15.946	11,242	42.5%	4,775	16,018	2,239
Georgia	630.0	16.647	10,488	25.6%	2,681	13,169	1,871
Hawaii	59.0	13.315	786	51.1%	402	1,188	175
Idaho	17.4	11.761	204	155.8%	318	523	81
Illinois	1,012.5	14.319	14,497	22.3%	3,239	17,736	3,051
Indiana	324.2	12.926	4,190	36.8%	1,542	5,732	890
Iowa	202.0	12.165	2,457	34.3%	841	3,298	481
Kansas	116.3	11.736	1,365	47.5%	648	2,013	330
Kentucky	228.8	12.958	2,965	30.7%	909	3,874	579
Louisiana	174.1	13.844	2,411	47.8%	1,153	3,564	501
Maine	112.0	13.967	1,564	19.7%	308	1,872	253
Maryland	1,920.1	12.130	23,292	6.4%	1,496	24,788	4,453
Massachusetts	3,024.1	11.490	34,747	5.5%	1,906	36,652	7,103
Michigan	826.5	13.567	11,214	19.2%	2,151	13,365	2,144
Minnesota	619.4	12.955	8,024	17.0%	1,360	9,385	1,624
Mississippi	42.4	12.584	533	97.9%	522	1,056	149
Missouri	655.6	12.139	7,958	15.0%	1,191	9,149	1,578
Montana	50.6	13.536	685	35.9%	246	930	122
Nebraska	127.5	13.125	1,674	33.7%	564	2,238	317
Nevada	40.7	11.968	487	139.0%	677	1,163	187
New Hampshire	120.5	10.729	1,293	23.4%	303	1,596	293
New Jersey	326.7	12.308	4,021	53.9%	2,166	6,187	1,161
New Mexico	98.1	11.774	1,155	35.4%	409	1,564	244
New York	2,891.8	10.535	30,466	17.9%	5,463	35,929	7,149
North Carolina	1,589.7	14.599	23,209	10.3%	2,398	25,607	3,915
North Dakota	19.7	10.761	212	108.0%	228	440	69
Ohio	883.1	13.548	11,964	22.3%	2,668	14,633	2,390
Oklahoma	118.6	14.457	1,715	54.8%	941	2,656	366
Oregon	399.4	13.698	5,471	19.2%	1,052	6,522	960
Pennsylvania	1,944.0	12.439	24,181	11.6%	2,800	26,981	4,930
Rhode Island	219.8	11.126	2,445	9.8%	239	2,684	446
South Carolina	207.0	15.112	3,128	34.5%	1,080	4,208	582
South Dakota	24.6	12.134	298	80.8%	241	539	75
Tennessee	585.3	13.318	7,795	18.5%	1,440	9,235	1,519
Texas	1,370.2	15.683	21,488	33.8%	7,256	28,744	4,512
Utah	234.3	16.752	3,926	21.3%	834	4,760	650
Vermont	64.3	12.821	824	18.6%	153	977	139
Virginia	506.1	11.147	5,641	32.3%	1,820	7,461	1,417
Washington	1,135.3	12.410	14,089	14.9%	2,101	16,190	2,794
West Virginia	35.6	11.437	407	82.8%	337	744	111
Wisconsin	493.1	13.219	6,519	22.8%	1,485	8,004	1,173
Wyoming	12.6	10.427	131	134.2%	176	308	46
50 states plus DC	30,820.1		396,651	20.0%	79,254	475,905	\$81,220

UMR is a coalition of leading research institutions, patient and health advocates and private industry seeking steady and sustainable increases in funding for the National Institutes of Health in order to save and improve lives, advance innovation and fuel the economy. 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 Innovation Organization, Boston University, Corning, Harvard University, Johns Hopkins University, Johnson & Johnson, Massachusetts Institute of Technology, MilliporeSigma, 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.

